Dimitri Gielis

Can You Do That with APEX? Building Not So Straightforward Pages

www.apexRnD.be
dgielis.blogspot.com
@dgielis
dgielis@apexRnD.be

Dimitri Gielis



- Founder & CEO of APEX R&D
- 20+ years of Oracle Experience (OCP & APEX Certified)
- Oracle ACE Director
- “APEX Developer of the year 2009” by Oracle Magazine
- “Oracle Developer Choice award (ORDS)” in 2015
- Author Expert Oracle APEX
- Presenter at Conferences

APEX R&D
research & development

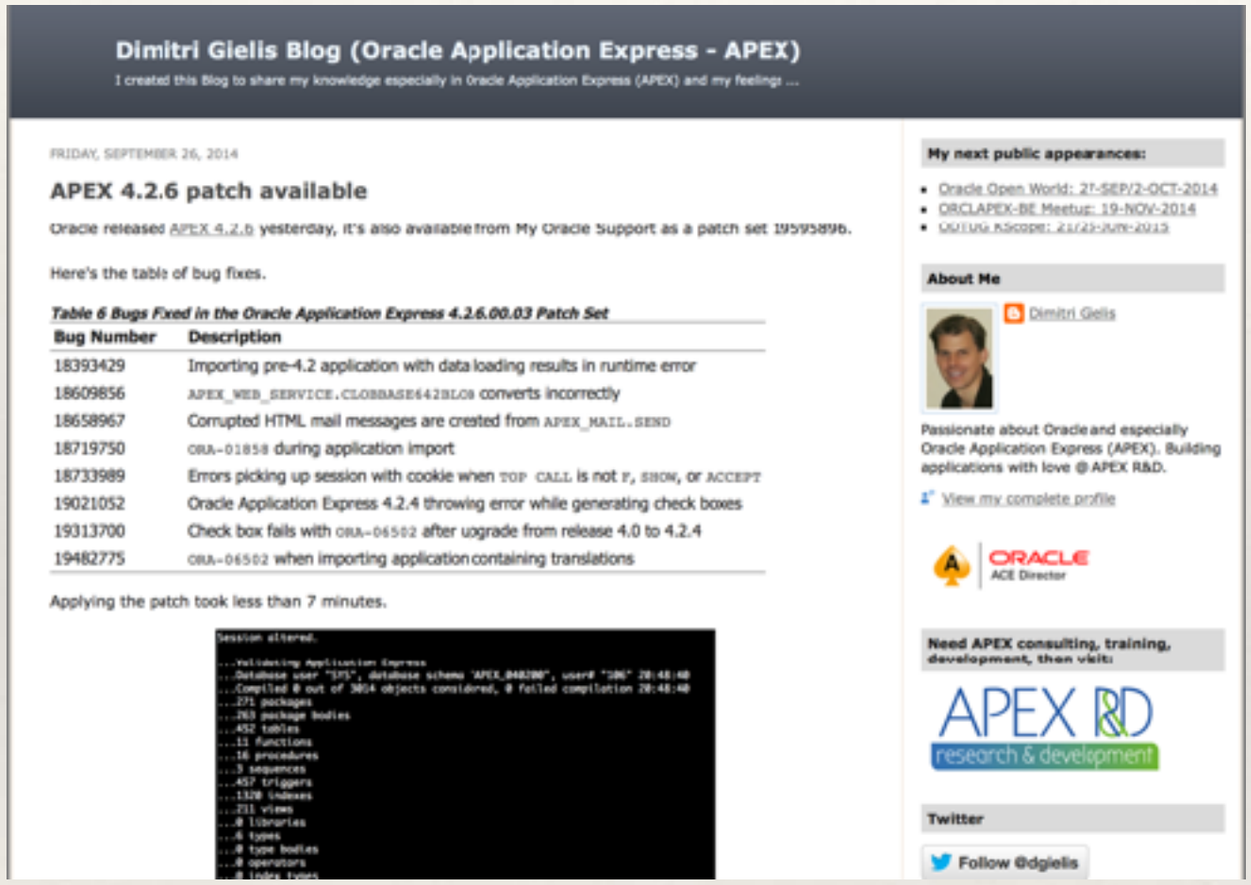
www.apexRnD.be

AOP

www.apexofficeprint.com

http://dgielis.blogspot.com

@dgielis



Dimitri Gielis Blog (Oracle Application Express - APEX)

I created this Blog to share my knowledge especially in Oracle Application Express (APEX) and my feelings ...

FRIDAY, SEPTEMBER 26, 2014

APEX 4.2.6 patch available

Oracle released APEX 4.2.6 yesterday, it's also available from My Oracle Support as a patch set 19595898.

Here's the table of bug fixes.

Table 6 Bugs Fixed in the Oracle Application Express 4.2.6.00.03 Patch Set

Bug Number	Description
18393429	Importing pre-4.2 application with data loading results in runtime error
18609856	APEX_WEB_SERVICE.CLOBBASE642BLOB converts incorrectly
18658967	Corrupted HTML mail messages are created from APEX_MAIL.SEND
18719750	ORA-01858 during application import
18733989	Errors picking up session with cookie when TOP CALL is not F, SHOW, or ACCEPT
19021052	Oracle Application Express 4.2.4 throwing error while generating check boxes
19313700	Check box fails with ORA-06502 after upgrade from release 4.0 to 4.2.4
19482775	ORA-06502 when importing application containing translations

Applying the patch took less than 7 minutes.

```
Session altered.
...Validating Application Express
...Database user "SYS", database schema 'APEX_040200', user# "106" 20:48:40
...Compiled 0 out of 3814 objects considered, 0 failed compilation 20:48:40
...271 packages
...263 package bodies
...452 tables
...11 functions
...16 procedures
...3 sequences
...457 triggers
...1328 indexes
...231 views
...0 libraries
...6 types
...0 type bodies
...0 operators
...0 index types
```

My next public appearances:

- Oracle Open World: 27-SEP/2-OCT-2014
- ORCLAPEX-BE Meetup: 19-NOV-2014
- [illegible]

About Me

Dimitri Gielis

Passionate about Oracle and especially Oracle Application Express (APEX). Building applications with love @ APEX R&D.

View my complete profile

ORACLE ACE Director

Need APEX consulting, training, development, then visit:

APEX R&D research & development

Twitter

Follow @dgielis



dgielis / presentations

Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights Settings

No description, website, or topics provided.

Edit

Manage topics

2 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find File Clone or download

dgielis Update README.md Latest commit 1478b2f 15 seconds ago

README.md Update README.md 15 seconds ago

README.md

presentations

In this repository you find examples I use during my presentations.

Typical I create a sample application for the content I present.

You find the presentations at https://www.slideshare.net/dimitrigielis

3 + 3 Techniques

1: UT to the full extent



Oracle Application Express

Universal Theme

Universal Theme is a responsive, versatile, and customizable user interface for your Application Express apps. It is designed uniquely for Oracle APEX to make it easy for developers to build beautiful, modern applications, at any scale, for any purpose, that work on any device.



Getting Started



Design



Components



Migration Guides



Icons



Reference

https://apex.oracle.com/ut/

DEMO

2: Power of SQL and Templates

TA	Product	2016 Current Budget	Current Contracted Amount	Current Spent Amount	2016 Spend as % of Budget	Latest Planned Total Amount	Latest Planned Global / US	Latest Planned HE Zug	Latest Planned Affiliates	Forecasted 2016 Spend	$000's Over / Under Budget	% of 2016 Current Budget
Bone/Neph/Inflam/Neuro	[redacted]	0.00	102.52	102.52	-%	-	-	-	-	102.52	102.52	-%
Bone/Neph/Inflam/Neuro	[redacted]	51.33	38.95	5.16	10.05%	0.00	-	-	0.00	38.95	-12.38	75.88%
Bone/Neph/Inflam/Neuro	[redacted]	290.00	44.53	44.53	15.35%	-	-	-	-	44.53	-245.47	15.35%
Bone/Neph/Inflam/Neuro	[redacted]	165.40	5.45	2.45	1.48%	0.00	-	-	0.00	5.45	-159.96	3.29%
Bone/Neph/Inflam/Neuro	[redacted]	150.00	12.85	1.02	0.68%	-	-	-	-	12.85	-137.15	8.57%
Bone/Neph/Inflam/Neuro	[redacted]	3,831.79	3,199.37	1,474.48	38.48%	0.00	0.00	-	0.00	3,199.37	-632.42	83.50%
Bone/Neph/Inflam/Neuro	[redacted]	39.00	872.95	362.32	929.02%	-	-	-	-	872.95	833.95	2,238.32%
Bone/Neph/Inflam/Neuro	[redacted]	40.00	23.00	0.22	0.56%	-	-	-	-	23.00	-17.00	57.50%
Bone/Neph/Inflam/Neuro	[redacted]	22.00	22.48	22.48	102.18%	-	-	-	-	22.48	0.48	102.18%
Bone/Neph/Inflam/Neuro	[redacted]	0.00	4.72	4.72	429,470.91%	0.00	-	-	0.00	4.72	4.72	429,472.73%
Bone/Neph/Inflam/Neuro	[redacted]	79.00	-	0.00	0.00%	30.00	30.00	-	-	30.00	-49.00	37.97%
Bone/Neph/Inflam/Neuro	[redacted]	328.62	323.49	269.53	82.02%	0.00	-	-	0.00	323.49	-5.13	98.44%
Bone/Neph/Inflam/Neuro	[redacted]	1,355.78	2,149.31	1,268.92	93.59%	32.65	-	-	32.65	2,181.96	826.18	160.94%
Bone/Neph/Inflam/Neuro	[redacted]	1,070.58	740.47	435.93	40.72%	100.00	20.00	80.00	0.00	840.47	-230.11	78.51%
Bone/Neph/Inflam/Neuro	[redacted]	2,312.96	2,267.88	1,627.46	69.46%	0.00	-	0.00	0.00	2,267.88	-75.08	96.80%
Bone/Neph/Inflam/Neuro	[redacted]	1,776.23	1,628.56	731.33	41.17%	94.45	-	-	94.45	1,723.03	-53.20	97.01%
Bone/Neph/Inflam/Neuro	[redacted]	61.00	59.42	41.57	68.14%	0.00	-	-	0.00	59.42	-1.58	97.41%
Bone/Neph/Inflam/Neuro Total	-	**11,603.68**	**11,495.17**	**6,393.84**	**55.10%**	**257.10**	**50.00**	**80.00**	**127.10**	**11,752.27**	**148.59**	**101.28%**
Cardio/Metabolic	[redacted]	300.40	63.41	32.12	10.69%	0.00	-	-	0.00	63.41	-237.00	21.11%
Cardio/Metabolic	[redacted]	0.00	1.79	0.00	-%	-	-	-	-	1.79	1.79	-%
Cardio/Metabolic	[redacted]	1,330.00	1,241.30	379.16	28.51%	-	-	-	-	1,241.30	-88.70	93.33%
Cardio/Metabolic	[redacted]	10,439.08	8,395.15	5,547.41	53.14%	531.60	457.63	43.00	30.98	8,926.75	-1,512.32	85.51%
Cardio/Metabolic	[redacted] Contracting	1,100.00	864.06	398.29	36.21%	124.00	124.00	-	-	988.06	-111.94	89.82%
Cardio/Metabolic Total	-	**13,169.48**	**10,565.71**	**6,356.99**	**48.27%**	**655.60**	**581.63**	**43.00**	**30.98**	**11,221.31**	**-1,948.17**	**85.21%**
Mature Onc TA	[redacted]	56.23	41.81	37.81	67.24%	0.00	-	-	0.00	41.81	-14.42	74.35%
Mature Onc TA	[redacted]	1,290.74	1,053.53	380.36	29.47%	0.00	-	0.00	0.00	1,053.53	-237.21	81.62%
Mature Onc TA	[redacted]	360.81	306.43	237.31	65.77%	0.00	-	-	0.00	306.43	-54.38	84.93%
Mature Onc TA Total	-	**1,707.78**	**1,401.77**	**655.48**	**38.38%**	**0.00**	**-**	**0.00**	**0.00**	**1,401.77**	**-306.01**	**82.08%**
OncTx	[redacted]	110.40	-	0.00	0.00%	0.00	-	-	0.00	0.00	-110.40	0.00%
OncTx	[redacted]	2,954.14	1,922.59	960.97	32.53%	440.78	403.00	-	37.78	2,363.37	-590.77	80.00%
OncTx	[redacted]	1,654.87	1,354.34	905.05	54.70%	22.00	-	22.00	0.00	1,376.34	-278.32	83.18%
OncTx	[redacted]	7,701.73	6,481.17	4,392.19	57.03%	13.71	2.37	-	11.33	6,494.87	-1,206.86	84.33%
OncTx	[redacted]	881.49	733.24	375.46	42.59%	0.00	-	-	0.00	733.24	-148.25	83.18%
OncTx	[redacted]	1,776.14	1,374.33	839.51	47.27%	10.00	-	10.00	0.00	1,384.33	-391.80	77.94%
OncTx Total	-	**15,078.57**	**11,865.68**	**7,473.19**	**49.56%**	**486.48**	**405.37**	**32.00**	**49.11**	**12,352.16**	**-2,726.42**	**81.92%**
X-Prod	Department Budget	2,048.78	3,930.58	2,856.74	140.90%	180.00	-	180.00	0.00	4,110.58	2,061.80	200.64%
X-Prod	HTA CoE	2,693.52	2,262.13	1,395.74	51.82%	190.00	190.00	-	-	2,452.13	-241.39	91.04%
X-Prod	Modeling COE	1,223.72	1,163.72	825.77	67.48%	0.00	-	0.00	-	1,163.72	-60.00	95.10%
X-Prod Total	-	**5,966.02**	**7,356.43**	**5,108.25**	**85.62%**	**370.00**	**190.00**	**180.00**	**0.00**	**7,726.43**	**1,760.41**	**129.51%**
Total	-	**47,525.53**	**42,684.76**	**25,987.75**	**54.68%**	**1,769.18**	**1,227.00**	**335.00**	**207.19**	**44,453.94**	**-3,071.59**	**93.54%**

Classic Report

- Power of SQL
  - Union All
  - Analytical Function
  - Grouping
- Custom Template
  - Column
  - Row

Reporting
Universal Theme
Classic Report
Union All
Analytical Functions
PL/SQL Region
Data Entry

Reporting

Universal Theme

Classic Report

Union All

Analytical Functions

PL/SQL Region

DEMO

3: PL/SQL Region

Define Years

Start year 2009

End year 2016

Product Categories by Year

	2009	2010	2011	2012	2013	2014
Accelerated	AMG 386 Motesanib Prolia Romosozumab Vectibix XGEVA	AMG 386 AMG 423 AMG 479 AMG 827-PsO/PsA Prolia Romosozumab XGEVA	AMG 827-PsO/PsA IMLYGIC Prolia Repatha Romosozumab XGEVA	AMG 181 AMG 386 AMG 827-PsO/PsA Blincyto IMLYGIC Oncovex Repatha Romosozumab XGEVA	AMG 102 AMG 181 AMG 334 AMG 386 AMG 423 AMG 827-PsO/PsA Blincyto Corlanor IMLYGIC Oncovex Parsabiv Repatha Romosozumab	AMG 181 AMG 334 AMG 827-PsO/PsA AMG 827-Resp Blincyto Corlanor IMLYGIC Kyprolis Parsabiv Repatha Romosozumab
Launch	Aranesp - Neph Aranesp - Onc Enbrel Epogen Neulasta/Neupogen Nplate Sensipar/Mimpara	Aranesp - Neph Aranesp - Onc Enbrel Epogen Neulasta/Neupogen Nplate Sensipar/Mimpara Vectibix	Aranesp - Neph Aranesp - Onc Enbrel Epogen Neulasta/Neupogen Nplate Prolia Sensipar/Mimpara Vectibix	Aranesp - Neph Aranesp - Onc Enbrel Epogen Neulasta/Neupogen Nplate Prolia Sensipar/Mimpara Vectibix XGEVA	Aranesp - Neph Aranesp - Onc Enbrel Epogen Neulasta/Neupogen Nplate Prolia Sensipar/Mimpara Vectibix XGEVA	Aranesp - Neph Aranesp - Onc Epogen Prolia Sensipar/Mimpara Vectibix XGEVA
Defend						Enbrel Neulasta/Neupogen
Grow						

PL/SQL Region

- Full flexibility to generate HTML/CSS

```
declare
  l_start_year number(4) := :P2_START_YEAR;
  l_end_year   number(4) := :P2_END_YEAR;
  l_products   varchar2(32767);
begin
  sys.htp.p('<table id="product_cat">');
  sys.htp.p('<thead><tr><th></th>'); -- year
  for r in (select l_start_year-level-1 as year
              from dual
            connect by level <= l_end_year-l_start_year+1
           )
  loop
    sys.htp.p('<th>'|| r.year ||'</th>');
  end loop;
  sys.htp.p('</tr></thead>');
  sys.htp.p('<tbody><tr>');
  for s in (select status, id
              from opts_status
             order by order_nr
           )
  loop
    sys.htp.p('<td><b>'|| s.status ||'</b></td>');
    for r in (select l_start_year+level-1 as year
                from dual
              connect by level <= l_end_year-l_start_year-1
             )
    loop
      select listagg(p.product_name, '<br/>') within group (order by p.product_name)
        into l_products
        from opts_product_status ps, opts_product p
       where ps.product_id = p.id
         and ps.status_id = s.id
         and to_char(ps.start_date, 'YYYY') = to_char(r.year);
      sys.htp.p('<td>'||l_products ||'</td>');
    end loop;
    sys.htp.p('</tr>');
  end loop;
  sys.htp.p('</tbody></table>');
end;
```

```
#product_cat {
    width:100%;
}

#product_cat tbody tr:nth-child(odd) {
  background-color: rgba(4, 179, 224, 0.21);
}

#product_cat tbody tr:nth-child(even) {
  background-color: rgba(4, 179, 224, 0.51);
}

#product_cat td{
  padding: 15px;
}

#product_cat th {
 background-color: #399BEA;
 color: white;
 padding: 15px;
 text-align:center;
}

#product_cat td{
 vertical-align: top;
}
```

4: apex_item

H-Occupational Performance Profile

Help | Feedback | Nederlands | Dimitri

- Demo
- Studenten
- Mijn Cliënten
- Andere Cliënten
- Administratie
- Mijn Feedback
- Historiek
- Platform

Irina (5 jaar)

Client / Clientsysteem — Hulpvraag — Onderzoek — Handelingsdiagnose — Interventiedoelen — Interventie — Follow up / Nazorg

Bewaren

Gegevens Client

Verwijderen

* Initialen: Irina
* Leeftijd: 5 jaar 2 maand(en)
Burgerlijke stand: - Select -
Godsdienst: katholiek
Foto: Choose File no file selected Download.

* Geslacht: Vrouw
Woonomgeving: Platteland/Countryside
Type woonst: Appartement/Apartment
Opleiding:



Gegevens verwijzers +

Gegevens contactpersonen +

Gegevens professionele zorg- en hulpverlening +

Medische gegevens

Vrijstellingen en tussenkomsten

Copyright APEX R&D & PXL © 2015-2016
release 1.0 Set Screen Reader Mode On

▾ HANDELINGSGEBIEDEN/Occupational Performance Areas (6)

HG Wonen en zorg (BADL/PADL) / Selfcare: Personal or basic Activities of Daily Living (BADL/PADL)	kk
b134. Slaap	Niet van toepassing (0)
d210. Ondernemen van een enkelvoudige taak	Volledige beperking: 96-100% (90)
d410. Veranderen van basale lichaamshouding	Niet van toepassing (-10)
d420. Uitvoeren van transfers	Lichte beperking: 5-24% (30)
d445. Gebruiken van hand en arm	Niet van toepassing (0)
d450. Lopen (cfr. gaan/stappen/wandelen))	Niet van toepassing (0)
d510. Zich wassen	Niet van toepassing (0)
d510. Zich wasse	Niet van toepassing (0)
d520. Verzorging	Niet van toepassing (0)

Wassen en afdrogen van het gehele lichaam, of lichaamsdelen, met gebruik van water en geschikte was- en droogmaterialen of methoden, zoals baden, douchen, wassen van handen en voeten, gezicht en haar, en met een handdoek drogen.

Classic Report + APEX_ITEM + Process

- Classic Report SQL
  - Union All
  - apex_item
- Standard Template
  - CSS (class) in SQL
  - JavaScript to show/hide and slider
- Process to read apex_item values

Classic Report: SQL

```sql
select
    case
        when lvl = 0
        then '<br/><i class="fa fa-caret-right"></i> ' || name
        else lpad('  ',lvl+7,'  ') || name end as name,
    description, class,
    apex_item.hidden(1, id) || apex_item.hidden(p_idx => 5, p_value => t.svalue, p_attributes => 'class="s'||id||'"') ||
    case
        when lvl = 0
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 1
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => '') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 2
        then apex_item.textarea(p_idx => 3,p_value => null,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => restriction_form_id,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'class="s'||id||'"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van to
            ||'<span class="slider-desc" name="s'||id||'">'|| nvl( (select i.description from opp_restriction_form i where i.id = t.restriction_form_id) ,'Niet van toepassing')
            ||'</span> (<span class="slider-value" name="s'||id||'">'||to_char(nvl(t.svalue,0))||'</span>)<div class="slicer" name="s'||id||'"></div>'
    end as quotation
from (
select r.id, c.name || ' [' ||
       (select count(*)
          from opp_dossier_research ri
         where c.id = ri.core_domain_id
           and (ri.restriction_form_id is not null or ri.note is not null)
           and ri.client_id  = :AI_CLIENT_ID
           and ri.dossier_id = :AI_DOSSIER_ID)
       ||']' as name, c.description, 'A' || lpad(c.order_nr,4,'0') as order_nr, 0 lvl, 'core-domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_core_domain c, opp_dossier_research r
 where c.id = r.core_domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, d.name, d.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') as order_nr, 1 lvl, 'domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_domain d, opp_core_domain c, opp_dossier_research r
 where d.core_domain_id = c.id
   and d.id = r.domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, i.icf_code || '. ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from opp_domain_icf di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.domain_icf_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is not null
union all
select r.id, i.icf_code || '. ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from OPP_CORE_SETS_ICF di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.CORE_SETS_ICF_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
```

Classic Report: SQL

```sql
select
    case
        when lvl = 0
        then '<br/><i class="fa fa-caret-right"></i> ' || name
        else lpad('  ',lvl+7,'  ') || name end as name,
    description, class,
    apex_item.hidden(1, id) || apex_item.hidden(p_idx => 5, p_value => t.svalue, p_attributes => 'class="s'||id||'"') ||
    case
        when lvl = 0
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 1
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => '') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 2
        then apex_item.textarea(p_idx => 3,p_value => null,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => restriction_form_id,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'class="s'||id||'"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van to
            ||'<span class="slider-desc" name="s'||id||'">'|| nvl( (select i.description from opp_restriction_form i where i.id = t.restriction_form_id) ,'Niet van toepassing')
            ||'</span> (<span class="slider-value" name="s'||id||'">'||to_char(nvl(t.svalue,0))||'</span>)<div class="slicer" name="s'||id||'"></div>'
    end as quotation
from (
select r.id, c.name || ' [' ||
       (select count(*)
          from opp_dossier_research ri
         where c.id = ri.core_domain_id
           and (ri.restriction_form_id is not null or ri.note is not null)
           and ri.client_id  = :AI_CLIENT_ID
           and ri.dossier_id = :AI_DOSSIER_ID)
       ||']' as name, c.description, 'A' || lpad(c.order_nr,4,'0') as order_nr, 0 lvl, 'core-domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_core_domain c, opp_dossier_research r
 where c.id = r.core_domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, d.name, d.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') as order_nr, 1 lvl, 'domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_domain d, opp_core_domain c, opp_dossier_research r
 where d.core_domain_id = c.id
   and d.id = r.domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, i.icf_code || ' ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from opp_domain_icf di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.domain_icf_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is not null
union all
select r.id, i.icf_code || ' ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from OPP_CORE_SETS_ICF di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.CORE_SETS_ICF_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
```

Classic Report: SQL

```
select
    case
        when lvl = 0
        then '<br/><i class="fa fa-caret-right"></i> ' || name
        else lpad('  ',lvl+7,'  ') || name end as name,
    description, class,
    apex_item.hidden(1, id) || apex_item.hidden(p_idx => 5, p_value => t.svalue, p_attributes => 'class="s'||id||'"') ||
    case
        when lvl = 0
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 1
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => '') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 2
        then apex_item.textarea(p_idx => 3,p_value => null,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => restriction_form_id,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'class="s'||id||'"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van to
            ||'<span class="slider-desc" name="s'||id||'">'|| nvl( (select i.description from opp_restriction_form i where i.id = t.restriction_form_id) ,'Niet van toepassing')
            ||'</span> (<span class="slider-value" name="s'||id||'">'|| to_char(nvl(t.svalue,0))||'</span>)<div class="slider" name="s'||id||'"></div>'
    end as quotation
from (
select r.id, c.name || ' [' ||
       (select count(*)
          from opp_dossier_research ri
         where c.id = ri.core_domain_id
           and (ri.restriction_form_id is not null or ri.note is not null)
           and ri.client_id  = :AI_CLIENT_ID
           and ri.dossier_id = :AI_DOSSIER_ID)
       ||']' as name, c.description, 'A' || lpad(c.order_nr,4,'0') as order_nr, 0 lvl, 'core-domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_core_domain c, opp_dossier_research r
 where c.id = r.core_domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, d.name, d.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') as order_nr, 1 lvl, 'domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_domain d, opp_core_domain c, opp_dossier_research r
 where d.core_domain_id = c.id
   and d.id = r.domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, i.icf_code || '. ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from opp_domain_icf di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.domain_icf_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is not null
union all
select r.id, i.icf_code || '. ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from OPP_CORE_SETS_ICF di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.CORE_SETS_ICF_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
```

Classic Report: SQL

```sql
select
    case
        when lvl = 0
        then '<br/><i class="fa fa-caret-right"></i> ' || name
        else lpad('  ',lvl+7,'  ') || name end as name,
    description, class,
    apex_item.hidden(1, id) || apex_item.hidden(p_idx => 5, p_value => t.svalue, p_attributes => 'class="s'||id||'"') ||
    case
        when lvl = 0
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 1
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => '') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 2
        then apex_item.textarea(p_idx => 3,p_value => null,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => restriction_form_id,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'class="s'||id||'"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van to
            ||'<span class="slider-desc" name="s'||id||'">'|| nvl( (select i.description from opp_restriction_form i where i.id = t.restriction_form_id) ,'Niet van toepassing')
            ||'</span> (<span class="slider-value" name="s'||id||'">'|| to_char(nvl(t.svalue,0))||'</span>)<div class="slider" name="s'||id||'"></div>'
    end as quotation
from (
select r.id, c.name || ' [' ||
       (select count(*)
          from opp_dossier_research ri
         where c.id = ri.core_domain_id
           and (ri.restriction_form_id is not null or ri.note is not null)
           and ri.client_id  = :AI_CLIENT_ID
           and ri.dossier_id = :AI_DOSSIER_ID)
       ||']' as name, c.description, 'A' || lpad(c.order_nr,4,'0') as order_nr, 0 lvl, 'core-domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_core_domain c, opp_dossier_research r
 where c.id = r.core_domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, d.name, d.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') as order_nr, 1 lvl, 'domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_domain d, opp_core_domain c, opp_dossier_research r
 where d.core_domain_id = c.id
   and d.id = r.domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, i.icf_code || ' ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from opp_domain_icf di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.domain_icf_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is not null
union all
select r.id, i.icf_code || ' ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from OPP_CORE_SETS_ICF di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.CORE_SETS_ICF_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
```

Classic Report: SQL

```sql
select
    case
        when lvl = 0
        then '<br/><i class="fa fa-caret-right"></i> ' || name
        else lpad('  ',lvl+7,'  ') || name end as name,
    description, class,
    apex_item.hidden(1, id) || apex_item.hidden(p_idx => 5, p_value => t.svalue, p_attributes => 'class="s'||id||'"') ||
    case
        when lvl = 0
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 1
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => '') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 2
        then apex_item.textarea(p_idx => 3,p_value => null,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => restriction_form_id,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'class="s'||id||'"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van to
            ||'<span class="slider-desc" name="s'||id||'">'|| nvl( (select i.description from opp_restriction_form i where i.id = t.restriction_form_id) ,'Niet van toepassing')
            ||'</span> (<span class="slider-value" name="s'||id||'">'||to_char(nvl(t.svalue,0))||'</span>)<div class="slider" name="s'||id||'"></div>'
    end as quotation
from (
select r.id, c.name || ' [' ||
       (select count(*)
          from opp_dossier_research ri
         where c.id = ri.core_domain_id
           and (ri.restriction_form_id is not null or ri.note is not null)
           and ri.client_id  = :AI_CLIENT_ID
           and ri.dossier_id = :AI_DOSSIER_ID)
       ||']' as name, c.description, 'A' || lpad(c.order_nr,4,'0') as order_nr, 0 lvl, 'core-domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_core_domain c, opp_dossier_research r
 where c.id = r.core_domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, d.name, d.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') as order_nr, 1 lvl, 'domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_domain d, opp_core_domain c, opp_dossier_research r
 where d.core_domain_id = c.id
   and d.id = r.domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, i.icf_code || ' ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from opp_domain_icf di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.domain_icf_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is not null
union all
select r.id, i.icf_code || ' ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from OPP_CORE_SETS_ICF di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.CORE_SETS_ICF_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
```

Classic Report: SQL

```sql
select
    case
        when lvl = 0
        then '<br/><i class="fa fa-caret-right"></i> ' || name
        else lpad('  ',lvl+7,'  ') || name end as name,
    description, class,
    apex_item.hidden(1, id) || apex_item.hidden(p_idx => 5, p_value => t.svalue, p_attributes => 'class="s'||id||'"') ||
    case
        when lvl = 0
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 1
        then apex_item.textarea(p_idx => 3,p_value => note,p_rows => 3,p_cols => 75,p_attributes => '') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => null,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'style="display:none"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van toepassing',p_
        when lvl = 2
        then apex_item.textarea(p_idx => 3,p_value => null,p_rows => 3,p_cols => 75,p_attributes => 'style="display:none"') ||
            apex_item.select_list_from_lov(p_idx => 2,p_value => restriction_form_id,p_lov => 'RESTRICTION_FORM_LOV',p_attributes => 'class="s'||id||'"',p_show_null => 'YES',p_null_value => null,p_null_text => 'Niet van to
            ||'<span class="slider-desc" name="s'||id||'">'|| nvl( (select i.description from opp_restriction_form i where i.id = t.restriction_form_id) ,'Niet van toepassing')
            ||'</span> (<span class="slider-value" name="s'||id||'">'|| to_char(nvl(t.svalue,0))||'</span>)<div class="slicer" name="s'||id||'"></div>'
    end as quotation
from (
select r.id, c.name || ' [' ||
       (select count(*)
          from opp_dossier_research ri
         where c.id = ri.core_domain_id
           and (ri.restriction_form_id is not null or ri.note is not null)
           and ri.client_id  = :AI_CLIENT_ID
           and ri.dossier_id = :AI_DOSSIER_ID)
       ||']' as name, c.description, 'A' || lpad(c.order_nr,4,'0') as order_nr, 0 lvl, 'core-domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_core_domain c, opp_dossier_research r
 where c.id = r.core_domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, d.name, d.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') as order_nr, 1 lvl, 'domain' as class, r.restriction_form_id, substr(r.note,1,3000) as note, r.svalue
  from opp_domain d, opp_core_domain c, opp_dossier_research r
 where d.core_domain_id = c.id
   and d.id = r.domain_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is null
   and r.core_sets_icf_id is null
union all
select r.id, i.icf_code || '. ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from opp_domain_icf di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.domain_icf_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
   and r.core_domain_id is not null
   and r.domain_id is not null
   and r.domain_icf_id is not null
union all
select r.id, i.icf_code || '. ' || i.title_nl as title_nl, di.description, 'A' || lpad(c.order_nr,4,'0') || 'B' || lpad(d.order_nr,4,'0') || i.icf_code as order_nr, 2 lvl, 'icf' as class, r.restriction_form_id, substr(r.no
  from OPP_CORE_SETS_ICF di, opp_icf i, opp_domain d, opp_core_domain c, opp_dossier_research r
 where di.icf_id = i.id
   and d.core_domain_id = c.id
   and di.domain_id = d.id
   and di.id = r.CORE_SETS_ICF_id
   and r.client_id  = :AI_CLIENT_ID
   and r.dossier_id = :AI_DOSSIER_ID
```

JavaScript

```javascript
$('span.core-domain').parent().parent().addClass('core-domain');
$('span.domain').parent().parent().addClass('domain');
$('span.icf').parent().parent().addClass('icf');

$('tr.domain').click(function() {
    $(this).children('td[headers="QUOTATION"]').toggle();
    $(this).nextUntil('tr.domain','tr.icf').toggle();
});

$('tr.domain td :input').click(function(e){
   e.stopPropagation();
});

Complexity is 3 Everything is cool!
$('tr.core-domain').click(function() {
    $(this).toggleClass("selected");
    if !$(this).hasClass('selected')) {
      $(this).nextUntil('tr.core-domain').hide();
      $(this).find('i.fa').switchClass('fa-caret-down','fa-caret-right', 10, 'linear');
    } else {
      $(this).nextUntil('tr.core-domain').show();
      $(this).find('i.fa').switchClass('fa-caret-right','fa-caret-down', 10, 'linear');
    }
});

$('tr.core-domain').trigger('click');

// slider
$(".slider").slider({
            value:0,
            min: 0,
            max: 100,
            step: 2,
            Complexity is 16 You must be kidding
            slide: function( event, ui ) {
                //console.log($(this));
                var sliderName = $(this).attr("name");
                //console.log(sliderName);
                $( ".slider-value[name='"+sliderName+"']" ).html( ui.value );
                $( "input:hidden[class='"+sliderName+"']" ).val( ui.value );
                if(ui.value>0 && ui.value <= 20){
                  $( "select[class='"+sliderName+"']" ).val('1');
                  $( ".slider-desc[name='"+sliderName+"']" ).html( 'Groen: geen beperking: 0-4%');
                } else if (ui.value >= 21 && ui.value <= 40){
                  $( "select[class='"+sliderName+"']" ).val('2');
                  $( ".slider-desc[name='"+sliderName+"']" ).html( 'Oranje: lichte beperking: 5-24%');
                } else if (ui.value >= 41 && ui.value <= 60){
                  $( "select[class='"+sliderName+"']" ).val('3');
                  $( ".slider-desc[name='"+sliderName+"']" ).html( 'Oranje: matige beperking : 25-49%');
                } else if (ui.value >= 61 && ui.value <= 80){
                  $( "select[class='"+sliderName+"']" ).val('4');
                  $( ".slider-desc[name='"+sliderName+"']" ).html( 'Rood: ernstige beperking: 50-95%');
                } else if (ui.value >= 81 && ui.value <= 100){
                  $( "select[class='"+sliderName+"']" ).val('5');
                  $( ".slider-desc[name='"+sliderName+"']" ).html( 'Rood: volledige beperking: 96-100%');
                } else {
                  $( "select[class='"+sliderName+"']" ).val('');
                  $( ".slider-desc[name='"+sliderName+"']" ).html( 'Niet van toepassing');
                }

            }
});

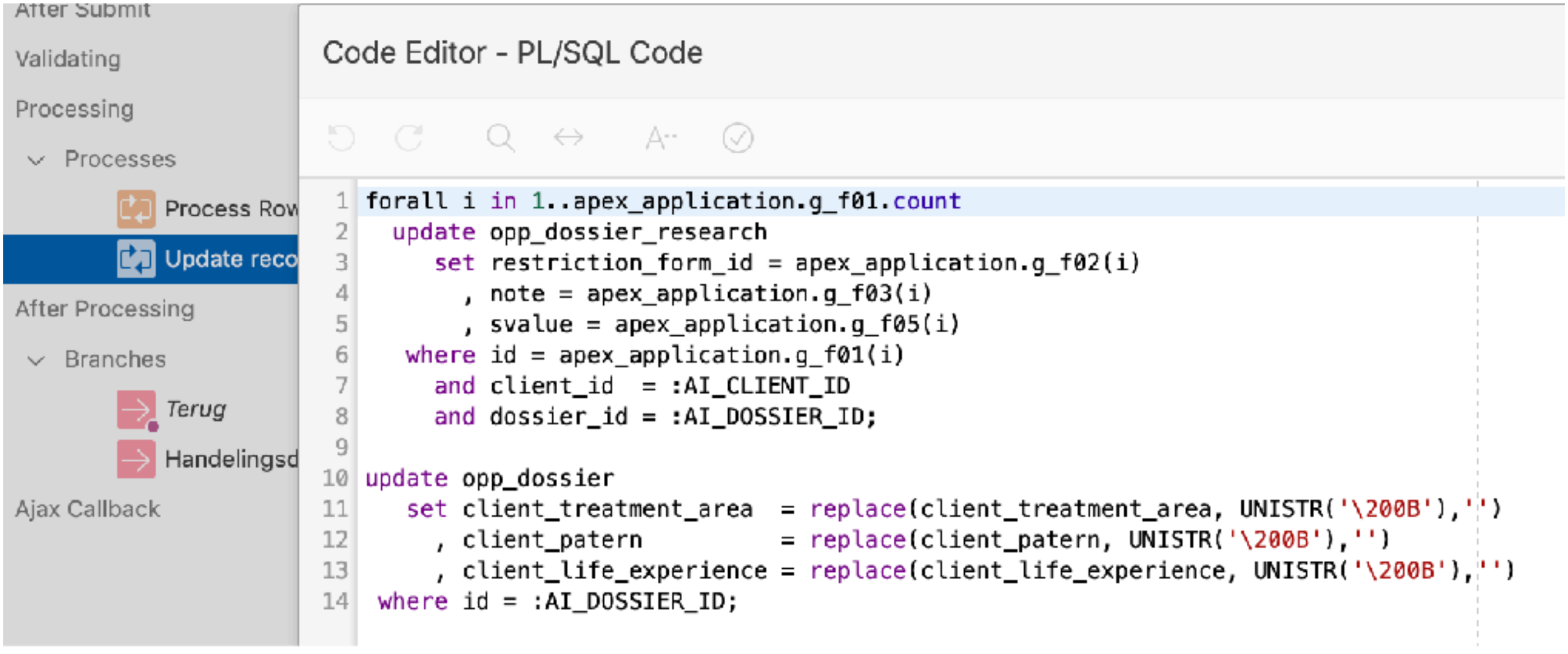
$('.ui-widget-content').css('background','linear-gradient(to right, green 20%, orange 20%, orange 60%, red 60%, red 100%)');

$('.slider-value').each(function(){
    var sliderValue = $(this).html();
    $('.slider[name='+$(this).attr("name")+']').slider('value', sliderValue);
});
```

CSS

```css
#structure_browser > table > table.t-Report-report {
  width:950px
}
div.slider { margin-top: 4px; width: 400px; }
body .ui-state-default, body .ui-widget-content .ui-stat
body .ui-widget-header .ui-state-default { background-co
select[name="f02"] { display: none; }
span.core-domain {
  font-size: 10pt;
  color: rgb(22, 143, 31);
}
span.domain {
}
span.icf{
   color: #666;
}
span.core-domain:hover {
  cursor:help;
}
div#files_dropzone.dropzone.dz-clickable {
 border: 3px dashed #CCCCCC !important;
}
```

After Submit Process



#5: Built-in features & DA

Elit 2.0

PUTSE T.C. roeland

Home
Terreinreservatie
App beheer
Tennisschool
Toegangsbeheer

0014 PUTSE T.C. \ Reserveringen \

Reservatiesysteem aanmaken

Controle locaties — Terreinen — **Uurroosters en reservatieschema's** — Ledengroepen — Reservatierechten koppelen — Functies en algemene instellingen — Kalender aanmaken

Uurroosters

Nieuw uurrooster toevoegen

Half uur

Uurrooster per sport per terrein

Tennis - Indoor — Snel uurrooster invullen — Naam reservatieschema: Tennis reservatieschema Indoor (16-JL

Terrein Naam	Maandag	Dinsdag	Woensdag	Donderdag	Vrijdag	Zaterdag	Zondag
sporthal 1	Half uur	Half uur	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
sporthal 2	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
Terrein 1	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
Terrein 2	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
Terrein 3	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -

Tennis - Outdoor — Snel uurrooster invullen — Naam reservatieschema: Tennis reservatieschema Outdoor (16-.

Terrein Naam	Maandag	Dinsdag	Woensdag	Donderdag	Vrijdag	Zaterdag	Zondag
Terrein 1	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
Terrein 2	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
Terrein 3	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
Terrein 4	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -
Terrein 5	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -

TENNIS VLAANDEREN
BNP PARIBAS FORTIS
ethias
SPORT. VLAANDEREN
WEB DEVELOPMENT

What is this?

PUTSE T.C.

0014 PUTSE T.C. \ Reserveringen \

Reservatiesysteem aanmaken

Controle locaties

Functies en algemene instellingen

Kalender aanmak

Uurroosters

Nieuw uurroo

Uurrooster per sport per terrein

Tennis - Indoor

Snel uurroost

Terrein Naam	Maandag					Zaterdag	
sporthal 1	Half uur					- Niet in gebruik -	- Niet in g
sporthal 2	- Niet in gebruik -					- Niet in gebruik -	- Niet in g
Terrein 1	- Niet in gebruik -					- Niet in gebruik -	- Niet in g
Terrein 2	- Niet in gebruik -					- Niet in gebruik -	- Niet in g
Terrein 3	- Niet in gebruik -					- Niet in gebruik -	- Niet in g

Tennis - Outdoor

Snel uurroost

Terrein Naam	Maandag					Zaterdag	
Terrein 1	- Niet in gebruik -					- Niet in gebruik -	- Niet in g
Terrein 2	- Niet in gebruik -					- Niet in gebruik -	- Niet in g
Terrein 3	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in g
Terrein 4	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in g
Terrein 5	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in gebruik -	- Niet in g

Uurrooster Invullen

Sport
Tennis

Selecteer Uurrooster
Half uur

Start Uur	Eind Uur
09:00	09:30
09:30	10:00
10:00	10:30
10:30	11:00
11:00	11:30
11:30	12:00
12:00	12:30

1 rijen geselecteerd — Totaal 30

Naam reservatieschema
Tennis reservatieschema Indoor (16-JUN-2019 12:07)

Uurrooster van toepassing op volgende dagen

☐ Maandag ☐ Dinsdag ☐ Woensdag ☐ Donderdag ☐ Vrijdag ☐ Zaterdag ☐ Zondag

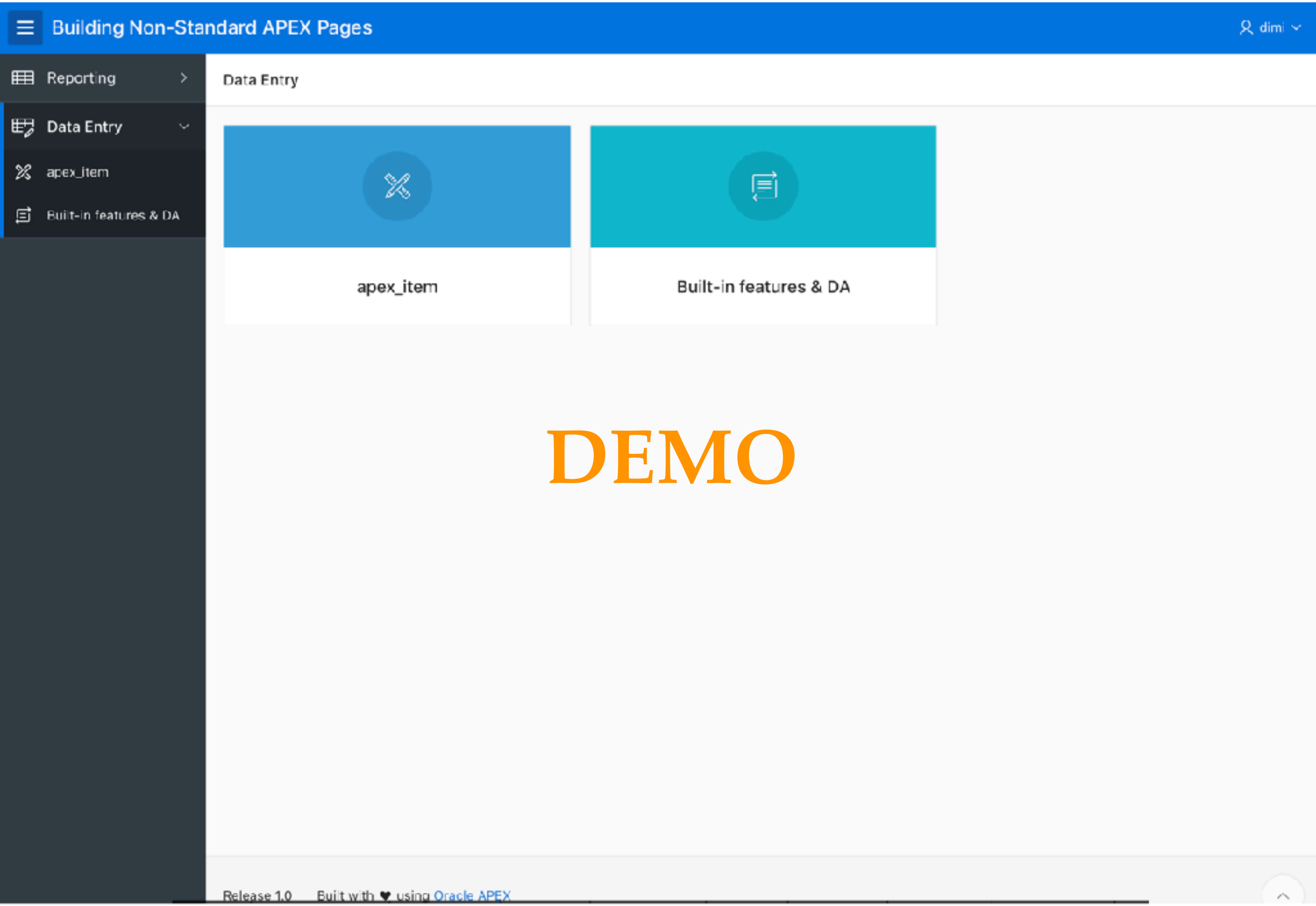
Uurrooster van toepassing op volgende terreinen

☐ sporthal 1 ☐ sporthal 2 ☐ Terrein 1 ☐ Terrein 2 ☐ Terrein 3

Opslaan

Interactive Report + APEX_ITEM + DA

- Interactive Report
  - Standard break
  - apex_item
- Dynamic Actions
  - Autosave
  - Refresh report


Building Non-Standard APEX Pages
dimi
Reporting
Data Entry
Data Entry
apex_item
Built-in features & DA
Data Entry
apex_item
Built-in features & DA
Release 1.0
Built with ♥ using Oracle APEX

DEMO

6: AJAX

Home
Terreinreservatie
App beheer
Tennisschool
Toegangsbeheer

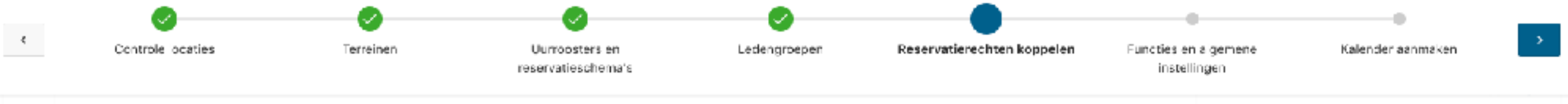
Reservatiesysteem aanmaken

Controle locaties
Terreinen
Uurroosters en reservatieschema's
Ledengroepen
Reservatierechten koppelen
Functies en algemene instellingen
Kalender aanmaken

Zorg dat je de ledengroepen per dag aan alle terreinen koppelt (waar en wanneer men mag reserveren).
Let op: de "Kopieer"-knoppen kopieren de koppelingen enkel naar de terreinen en/of dagen die eenzelfde uurrooster hebben.

- Maandag — Kopieer naar andere dagen
- Dinsdag — Kopieer naar andere dagen
- Woensdag — Kopieer naar andere dagen
- Donderdag — Kopieer naar andere dagen
- Vrijdag — Kopieer naar andere dagen
- Zaterdag — Kopieer naar andere dagen
- Zondag — Kopieer naar andere dagen

TENNIS VLAANDEREN
BNP PARIBAS FORTIS
ethias
SPORT. VLAANDEREN
WEB DEVELOPMENT



Zorg dat je de ledengroepen per dag aan alle terreinen koppelt (waar en wanneer men mag reserveren).
Let op: de "Kopieer"-knoppen kopiëren de koppelingen enkel naar de terreinen en/of dagen die eenzelfde uurrooster hebben.

Maandag	Kopieer naar andere dagen
Dinsdag	Kopieer naar andere dagen
Woensdag	Kopieer naar andere dagen
Donderdag	Kopieer naar andere dagen
Vrijdag	Kopieer naar andere dagen
Zaterdag	Kopieer naar andere dagen
Zondag	Kopieer naar andere dagen

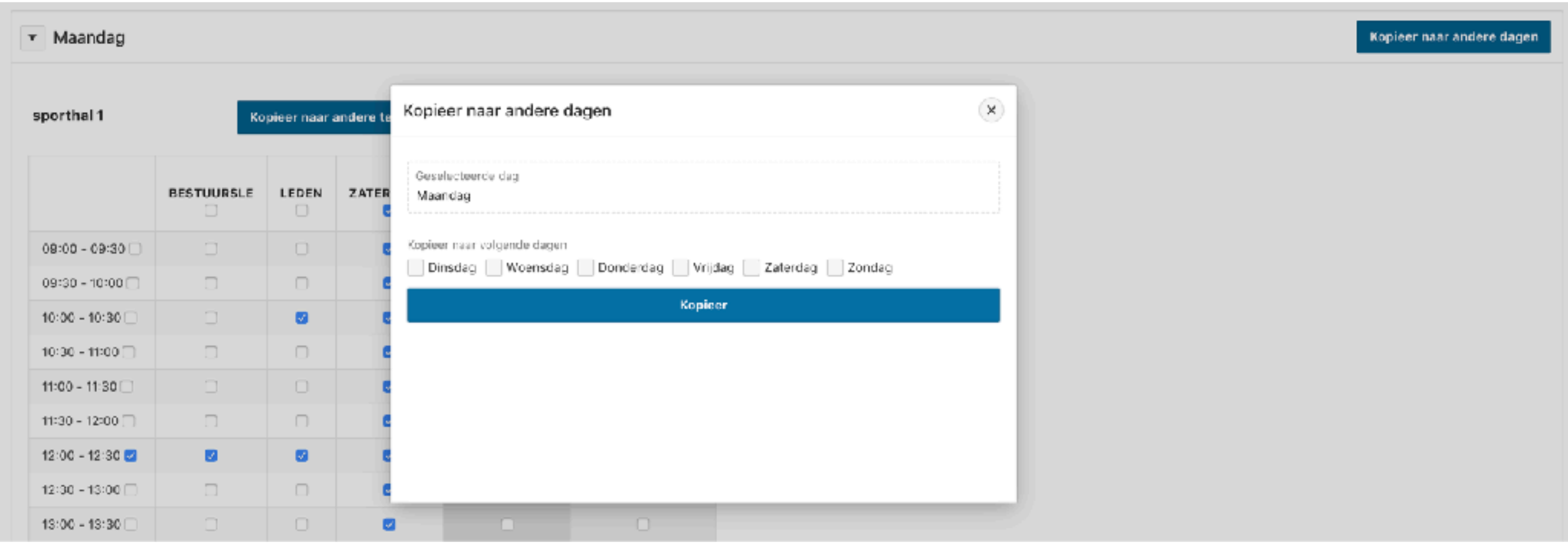
Home Application 100 Edit Page 22 Session View Debug Debug Page Info Quick Edit Theme Roller

Maandag

sporthal 1

Kopieer naar andere terreinen

	BESTUURSLE	LEDEN	ZATERDAG V	Enkel reservatie op de club	Reserveren met andere ledengroep
09:00 - 09:30	☐	☐	☑	☐	☐
09:30 - 10:00	☐	☐	☑	☐	☐
10:00 - 10:30	☐	☑	☑	☐	☐
10:30 - 11:00	☐	☐	☑	☐	☐
11:00 - 11:30	☐	☐	☑	☑	☑
11:30 - 12:00	☐	☐	☑	☐	☐
12:00 - 12:30	☑	☑	☑	☑	☑
12:30 - 13:00	☐	☐	☑	☐	☐
13:00 - 13:30	☐	☐	☑	☐	☐
13:30 - 14:00	☐	☐	☑	☐	☐
14:00 - 14:30	☐	☐	☑	☐	☐


Maandag
Kopieer naar andere dagen
sporthal 1
Kopieer naar andere te
BESTUURSLE
LEDEN
ZATER
09:00 - 09:30
09:30 - 10:00
10:00 - 10:30
10:30 - 11:00
11:00 - 11:30
11:30 - 12:00
12:00 - 12:30
12:30 - 13:00
13:00 - 13:30
Kopieer naar andere dagen
Geselecteerde dag
Maandag
Kopieer naar volgende dagen
Dinsdag
Woensdag
Donderdag
Vrijdag
Zaterdag
Zondag
Kopieer

PL/SQL Dynamic Content + Ajax

- PL/SQL Region
  - Collapsible template
- Inline Dialogs: pop-ups defined on same page
  - After Submit Process
- Dynamic Action: Click Checkboxes
  - apex.server.process

Region: PL/SQL Dynamic Content

Code Editor - PL/SQL Code

```plsql
declare
  l_checked varchar2(10);
  l_characters_head number := 10;
begin
  if :P22_WURSCHEMA_ID is null
  then
    sys.htp.p('<p>Gelieve een reservatieschema te selecteren.</p>');
  else
    sys.htp.p('<p>Zorg dat je de ledengroepen per dag aan alle terreinen koppelt (waar en wanneer men mag reserveren). <br/>
Let op: de "Kopieer"-knoppen kopiëren de koppelingen enkel naar de terreinen en/of dagen die eenzelfde uurrooster hebben.</p>');
    for r in (
            select display_value, return_value
              from APEX_APPLICATION_LOV_ENTRIES
             where application_id = :APP_ID
               and list_of_values_name = 'DAGEN_WEEK_LOV'
             order by display_sequence
    ) loop
      sys.htp.p('
            <div class="t-Region t-Region--hideShow t-Region--scrollBody lto4604896975720722_0 a-Collapsible is-collapsed" id="R4604896975720722">
             <div class="t-Region-header">
              <div class="t-Region-headerItems  t-Region-headerItems--controls">
               <button class="t-Button t-Button--icon t-Button--hideShow" type="button" aria-labelledby="a_Collapsible1_R4604896975720722_heading" aria-controls="a_Collapsible1_R4604896
               </button>
              </div>
              <div class="t-Region-headerItems t-Region-headerItems--title">
               <h2 class="t-Region-title a-Collapsible-heading" id="a_Collapsible1_R4604896975720722_heading">'||r.display_value||'</h2>
              </div>
              <div class="t-Region-headerItems t-Region-headerItems--buttons"><button onclick="openAndereDagen('|| r.return_value ||','''||r.display_value||''');" class="t-Button t-Butto
             </div>
             <div class="t-Region-bodyWrap">
               <div class="t-Region-buttons t-Region-buttons--top">
                <div class="t-Region-buttons-left"></div>
                <div class="t-Region-buttons-right"></div>
               </div>
               <div class="t-Region-body a-Collapsible-content" id="a_Collapsible1_R4604896975720722_content" aria-hidden="false" style="">
           ');

        -- generate terreinen
        for k in (select g.TERREINTYPE_NAAM, g.TERREIN_ID
                    from A_TERREINGROEPEN_V g
                   where g.partij_id = :AI_PARTIJ_ID
                     and g.terreintype_is_actief = 'J'
                     and exists (select 1
```

Cancel OK

DA: change input:checkbox

```
var selection = this.triggeringElement.dataset.selection;
var overrideSelection = this.triggeringElement.dataset.overrideSelection;
var terreinId=this.triggeringElement.dataset.terreinid;
var c=$(this.triggeringElement).attr("name");
var arr=[];
if (selection === "all") {
  var selectionChecked = $(this.triggeringElement).prop('checked');
  $('#tr_'+terreinId+' .'+c).prop('checked', function (i, value) {
    var items = {};
    items.terreinschemaid = $(this).data("terreinschemaid");
    items.ledengroepid = $(this).data("ledengroepid");
    items.checked = (!$(this).data("ledengroepid") && !overrideSelection ? value : selectionChecked) ? "Y" : "N"
    arr.push(items);
    if(!$(this).data("ledengroepid") && !overrideSelection){
        return value;
    }
    return selectionChecked;
  });
} else {
    var items = {};
    items.terreinschemaid = $(this.triggeringElement).data("terreinschemaid");
    items.ledengroepid = $(this.triggeringElement).data("ledengroepid");
    if ($(this.triggeringElement).prop('checked')) { items.checked = "Y"; } else { items.checked = "N"; }
    arr.push(items);
}
//Send the changes to the server via Ajax
apex.server.process('UPDATE_RSV_TERREINSCHEMA_LEDENGROEP', {
  p_clob_01: JSON.stringify(arr)
},{
  success: function(data) {
    console.log("data", data);
  },dataType : "text"
});
```

```
declare
   l_json_clob   clob;
   l_json_values apex_json.t_values;
   l_count       pls_integer;
   l_rec         RSV_TERREINSCHEMA_LEDENGROEP%rowtype;
   l_checked     varchar2(1);
begin
   l_json_clob := apex_application.g_clob_01;

   apex_json.parse(p_values => l_json_values, p_source => l_json_clob);

   --Get a count of the products that were passed in
   l_count := apex_json.get_count(p_path   => '.', p_values => l_json_values);

   for idx in 1 .. l_count
   loop
      --Get the values from each element in the array
      l_rec.terreinschema_id := apex_json.get_number(
         p_path   => '[%d].terreinschemaid',
         p0       => idx,
         p_values => l_json_values
      );

      l_checked := apex_json.get_varchar2(
         p_path   => '[%d].checked',
         p0       => idx,
         p_values => l_json_values
      );

      --Issue the SQL statement to update the data
      if l_checked = 'Y'
      then
        apex_debug.message(p_message => 'insert record (terreinschema_id, ledengroep_id) = ' || l_rec.terreinschema_id || ',' || l_rec.ledengroep_id);
      end if;
   end loop;

   --Write some JSON out for the response
   apex_json.open_object();
   apex_json.write('status', 'success');
   apex_json.close_object();
end;
```



Home
Terreinreservatie
App beheer
Tennisschool
Toegangsbeheer

TENNIS VLAANDEREN
BNP PARIBAS FORTIS
ethias
SPORT. VLAANDEREN
WEB DEVELOPMENT

Activiteiten reserveren

Datum
16/06/2019

Terreingroep
- Alle -

Reservatieschema

‹ ›

	sporthal 1	sporthal 2	Terrein 1	Terrein 2	Terrein 3	Terrein 1	Terrein 2	Terrein 3	Terrein 4	Terrein 5	Terrein 6	Terrein 7
09:00						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
09:15												
09:30						Interclubtraining 09:30 - 10:00	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
09:45												
10:00						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
10:15												
10:30						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
10:45												
11:00						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
11:15												
11:30						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
11:45												
12:00						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
12:15												
12:30						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
12:45												
13:00						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
13:15												
13:30						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij
13:45												
14:00						Vrij	Vrij	Vrij	Vrij	Vrij	Vrij	Vrij

Home | Application 100 | Edit Page 37 | Session | View Debug | Debug | Page Info | Quick Edit | Theme Roller

Completely JavaScript Rendered

- Static Content Region
  - Div which is filled by DA and AJAX call
  - Use of JSON to transfer data
- Modal Dialog (other pages)
  - Dynamic Actions
  - External JS library for recurring schedule

1: UT to the full extent

2: Power of SQL and Templates

3: PL/SQL Region

4: apex_item

5: Built-in features & DA

6: AJAX



Q&A

APEX R&D
research & development

www.apexRnD.be
dgielis.blogspot.com
@dgielis
dgielis@apexRnD.be

Consulting, Development, Training

- Looking for consulting, training and development in Oracle Application Express (APEX)?
- Contact : www.apexRnD.be
- Mail : info@apexRnD.be