



FRT Consulting GmbH

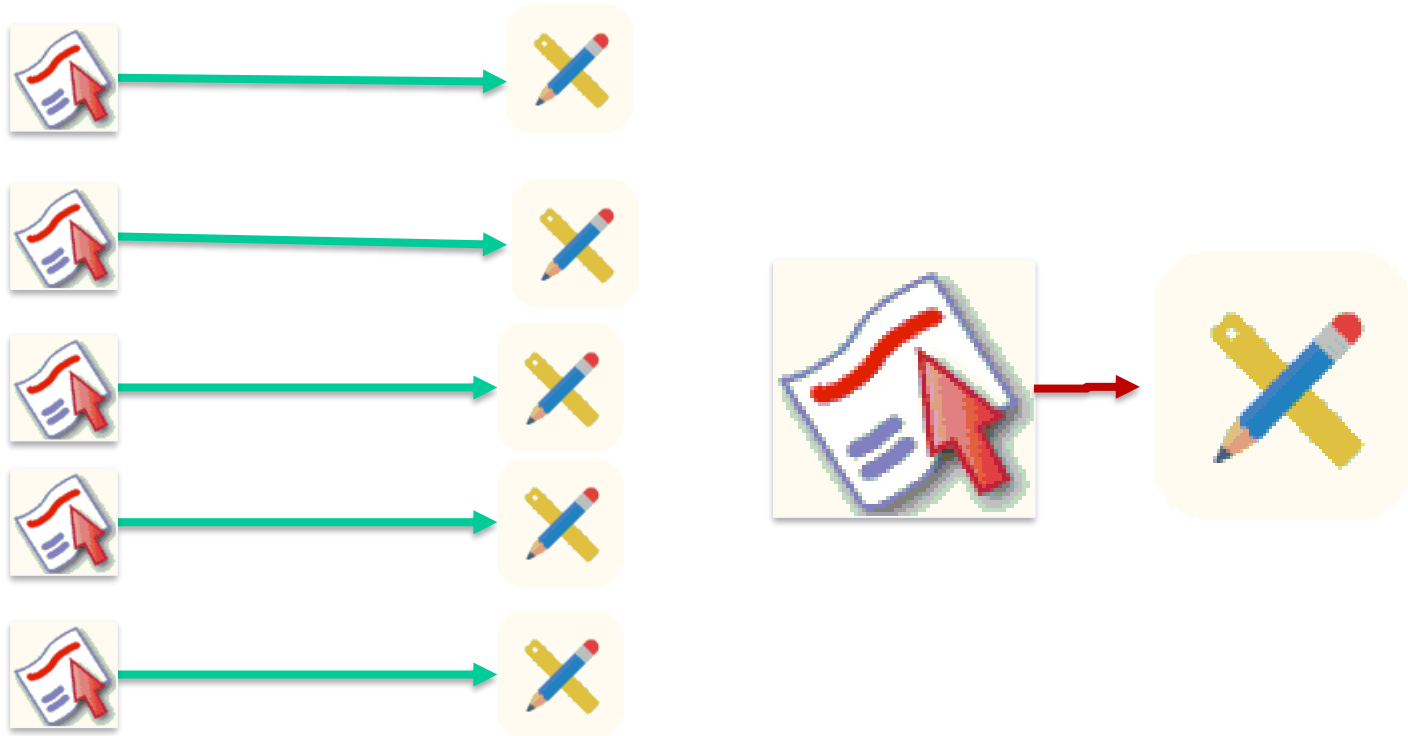
Voraussetzungen/konkrete Erfahrungen bei der Migration von Forms/Reports auf APEX

Pavel Glebov
Ivan Lazarov

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ORACLE Gold Partner

Teilmigration oder Big - Bang



FORMS → APEX

Purchase Order Summary to Purchase Orders - 6274

Operating Unit: Vision Operations | Created: 07-SEP-2006 06:48:08

PO, Rev: 6274 | Type: Standard Purchase Order | P-Card:

Supplier: GMC | Site: GMC NY | Contact:

Ship-To: L1 - LeaseQA | Bill-To: L1 - LeaseQA | Currency: USD

Buyer: Smith, Mr. Jonathan | Status: Approved | Total: 55,393.00

Description:

Lines | Price Reference | Reference Documents | More | Agreement

Num	Type	Item	Rev
1	Goods	AS54888	

Item: AS54888 | Sentinel Standard | Catalog

Sample Projects

Home

3 Open Projects | 8 Upcoming Milestones | 28 Open Tasks

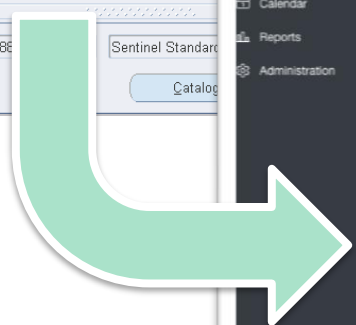
Recent Projects

- Lucille Beatie (3 seconds ago) **Assigned**
Develop Production Partner Portal
Develop the production app that partners can use to work more collaboratively...
- Demo (3 seconds ago) **In-Progress**
Develop Partner Portal POC
Develop a proof of concept that partners can use to work more collaboratively...
- Miyazaki Yokohama (3 seconds ago) **In-Progress**
Migrate Legacy Applications
Move the data and redevelop the applications currently running on top of legac...
- Lucille Beatie (12 days ago) **Completed**
Train Developers on Web development tool
Ensure all developers who will be developing with the new tool get the appropr...
- Demo (3 weeks ago) **Completed**
Configure Web Development Tool Environment

My Outstanding Tasks

Project	Task	End date
Develop Partner Portal POC	Define scope of Partner Portal App.	4/1/2018
Develop Partner Portal POC	Present POC to Key Stakeholders	4/9/2018
Develop Production Partner Portal	Define production scope of Partner Portal App.	4/11/2018
Develop Production Partner Portal	Review Beta Feedback	4/26/2018
Develop Production Partner Portal	Provide user credentials for partners	5/26/2018

1 - 5



APEX → FORMS

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Lines | Price Reference | Reference Documents | More | Agreement

Num	Type	Item	Rev	Job	Category	Description	UOM	Quantity	Price
1	Goods	AS54888			PRODUCTN.FINC	Sentinel Standard Des	Each	50	1107.86

Item: AS54888 Sentinel Standard Desktop TPD

Buttons: Catalog... | Currency... | Terms | Shipments | Approve...



Mobile | demo

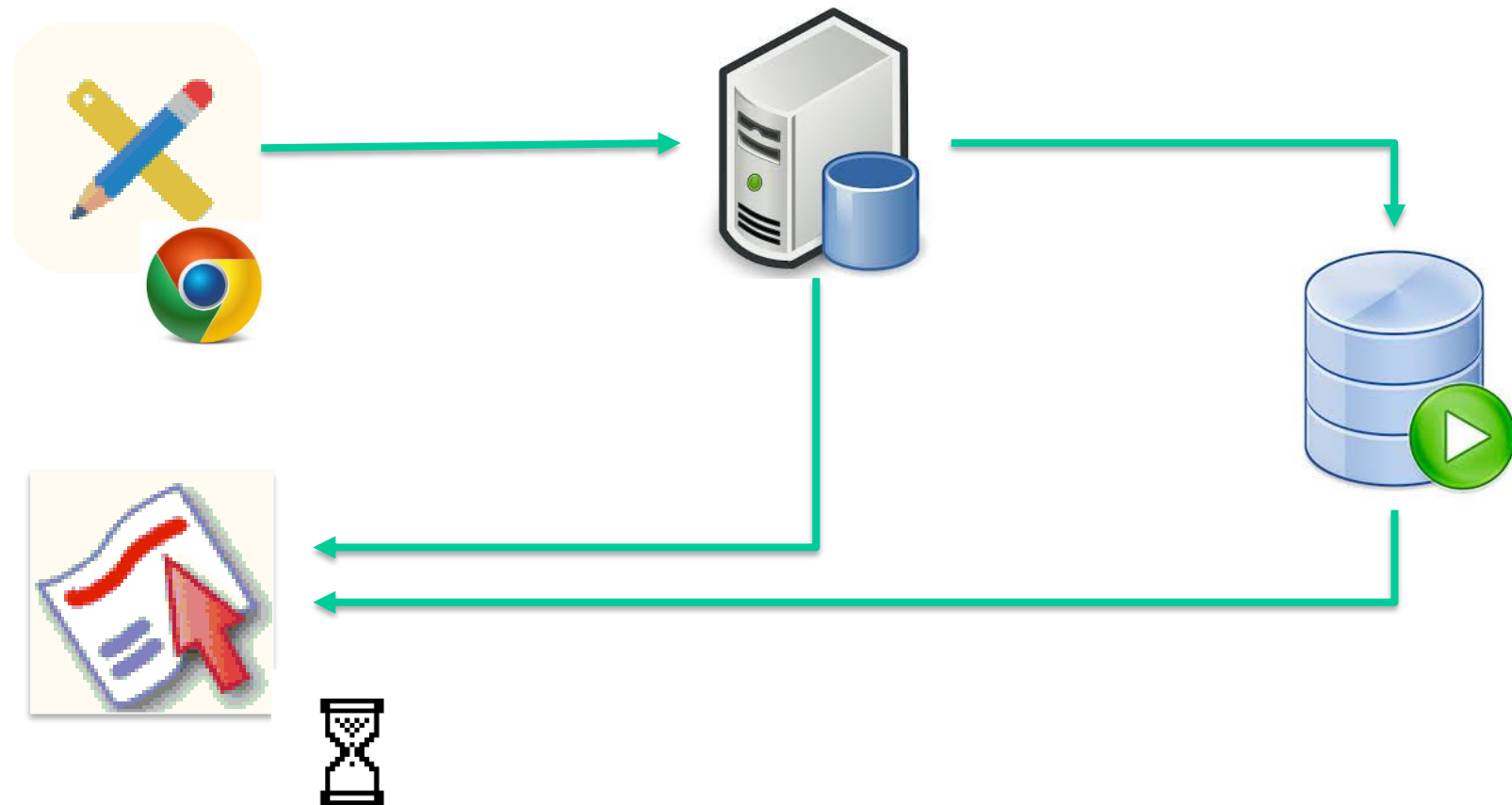
3 Milestones | 28 Open Tasks

My Outstanding Tasks

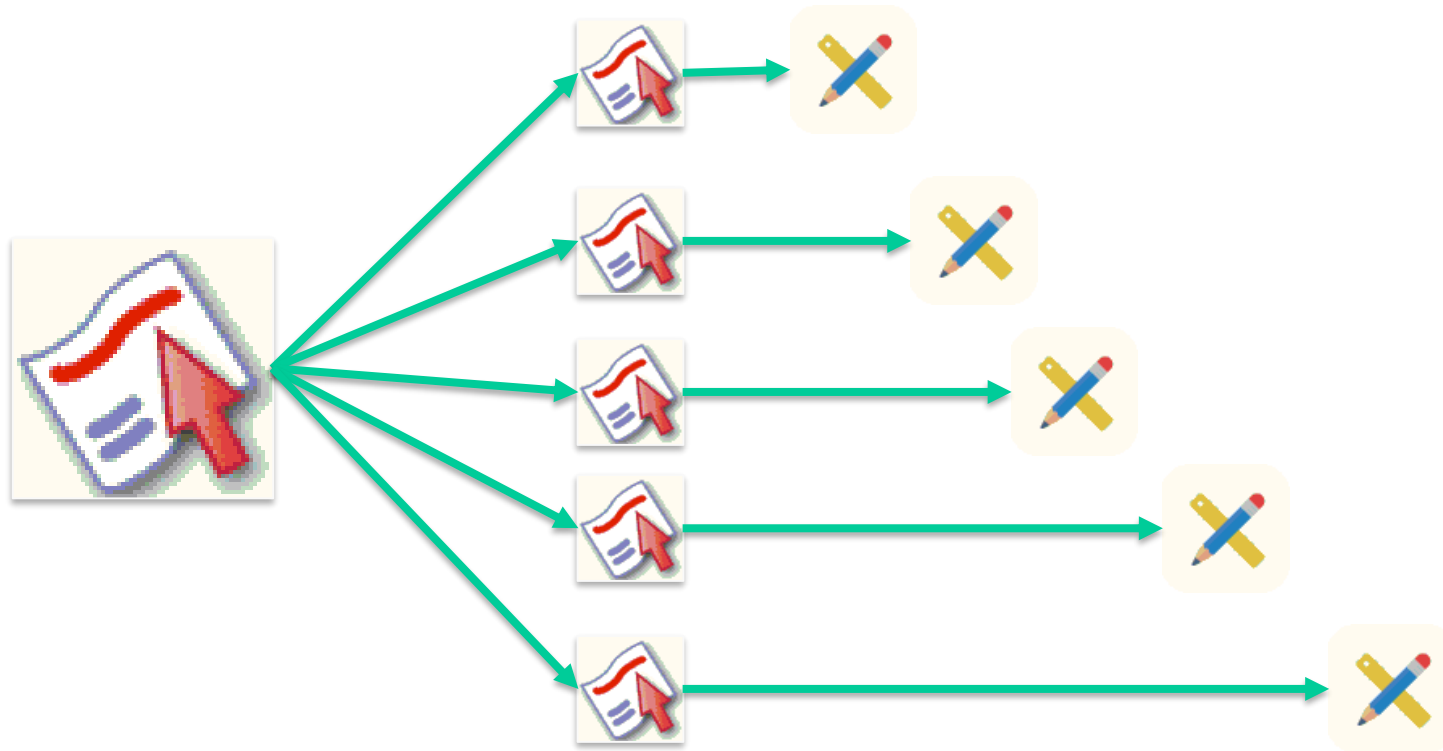
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1 - 5

APEX → FORMS



Teilmigration



BENUTZEROBERFLÄCHE

Purchase Order Summary to Purchase Orders - 6274

Operating Unit: Vision Operations Created: 07-SEP-2006 06:48:08
 PO, Rev: 6274 0 Type: Standard Purchase Order
 Supplier: GMC Site: GMC NY
 Ship-To: L1 - LeaseQA Bill-To: L1 - LeaseQA
 Buyer: Smith, Mr. Jonathan Status: Approved
 Description:

P-Card:
 Contact:
 Currency: USD
 Total: 55,393.00 []

Lines Price Reference Reference Documents More Agreement ...

Num	Type	Item	Rev	Job	Category	Description	UOM	Quantity	Price	[]
1	Goods	AS54888			PRODUCTN.FINC	Sentinel Standard Des	Each	50	1107.86	[]

Item: AS54888 Sentinel Standard Desktop TPD

Catalog... Currency... Terms Shipments Approve...

BENUTZEROBERFLÄCHE

Authentication Scheme [Go To](#) [Home Page](#) [URL](#)

Show All	Name	Subscription	IP=	Source	Session Not V...	Login Processi...	Post-Logout ...	Session Sharing	Comments
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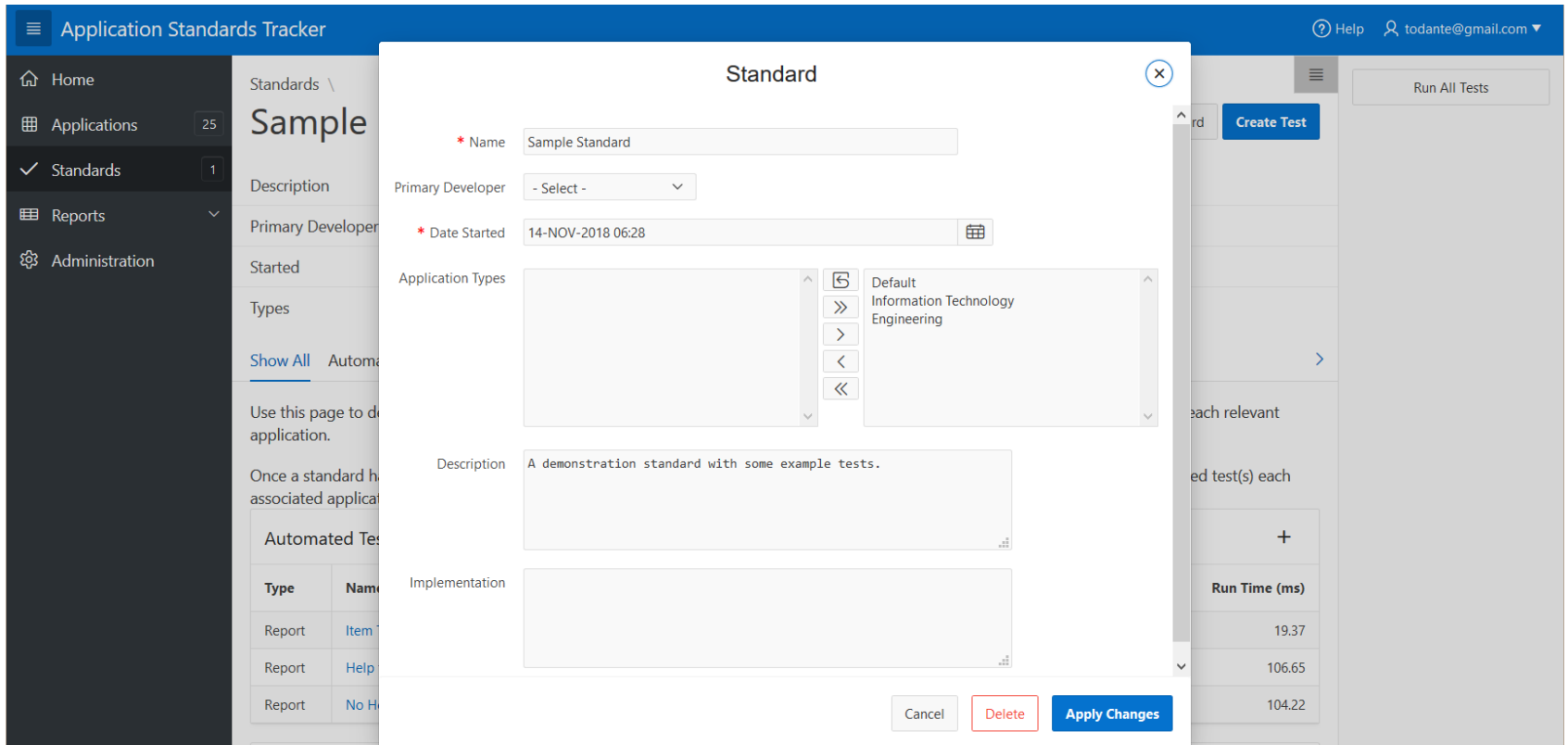
Session Sharing

Type

Comments

Comments

DESIGN REGELN



The screenshot displays the 'Application Standards Tracker' application interface. A modal window titled 'Standard' is open, showing the following fields and controls:

- Name:** Sample Standard
- Primary Developer:** - Select -
- Date Started:** 14-NOV-2018 06:28
- Application Types:** A list containing 'Default', 'Information Technology', and 'Engineering'.
- Description:** A demonstration standard with some example tests.
- Implementation:** (Empty text area)

At the bottom of the modal, there are three buttons: 'Cancel', 'Delete', and 'Apply Changes'. The background application shows a sidebar with 'Home', 'Applications (25)', 'Standards (1)', 'Reports', and 'Administration'. The main content area displays a 'Sample' standard with a table of 'Automated Tests'.

Type	Name
Report	Item
Report	Help
Report	No H

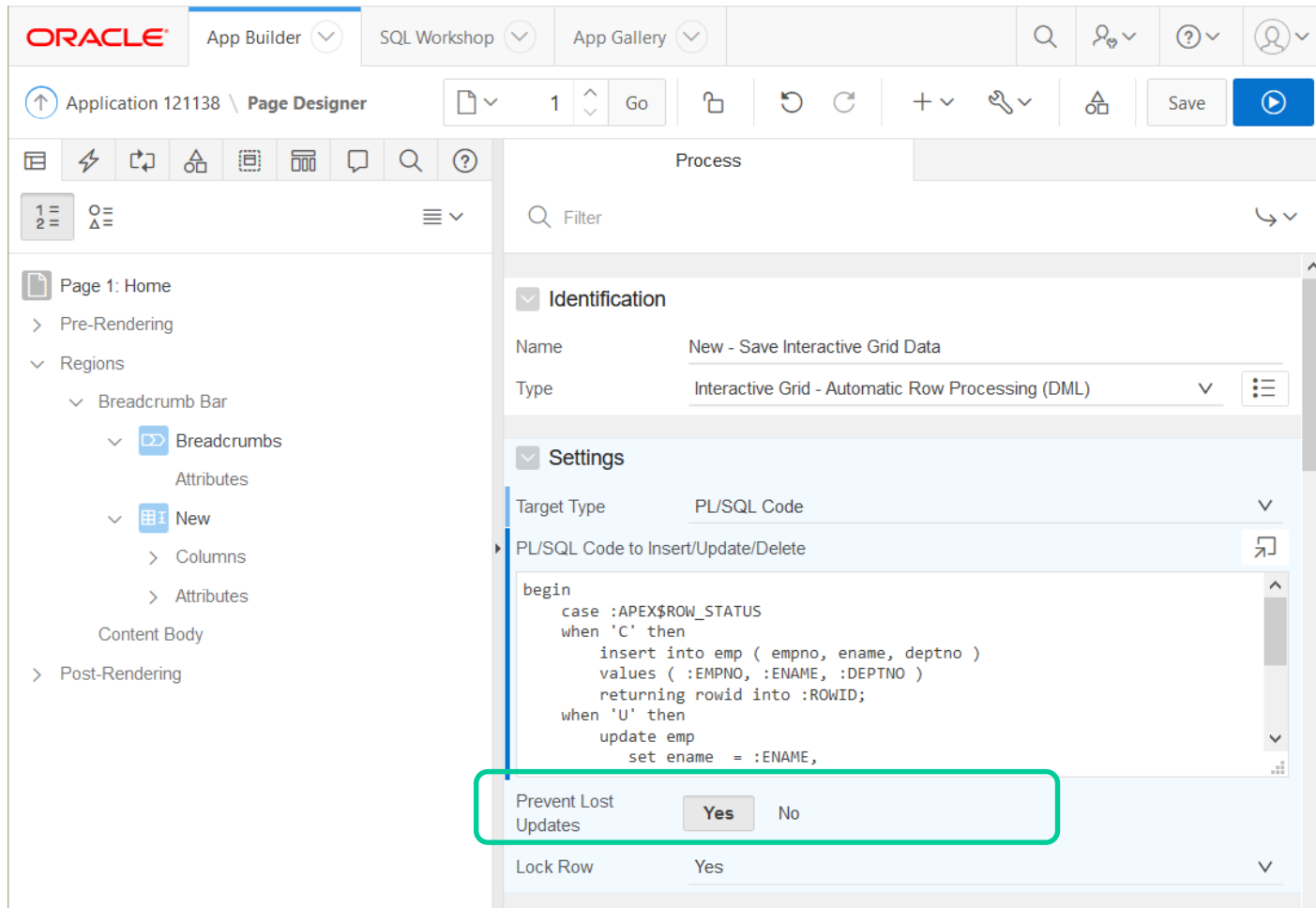
SOURCE VIEWS

```
CREATE OR REPLACE FUNCTION get_tab_tf (p_rows IN NUMBER)
  RETURN t_tf_tab AS
  l_tab t_tf_tab := t_tf_tab();
BEGIN
  FOR i IN 1 .. p_rows LOOP
    l_tab.extend;
    l_tab(l_tab.last) := t_tf_row(i, 'Description for ' || i);
  END LOOP;

  RETURN l_tab;
END;
/

SELECT *
FROM TABLE(get_tab_tf(10))
ORDER BY id DESC;
```

AUTOMATIC ROW PROCESSING

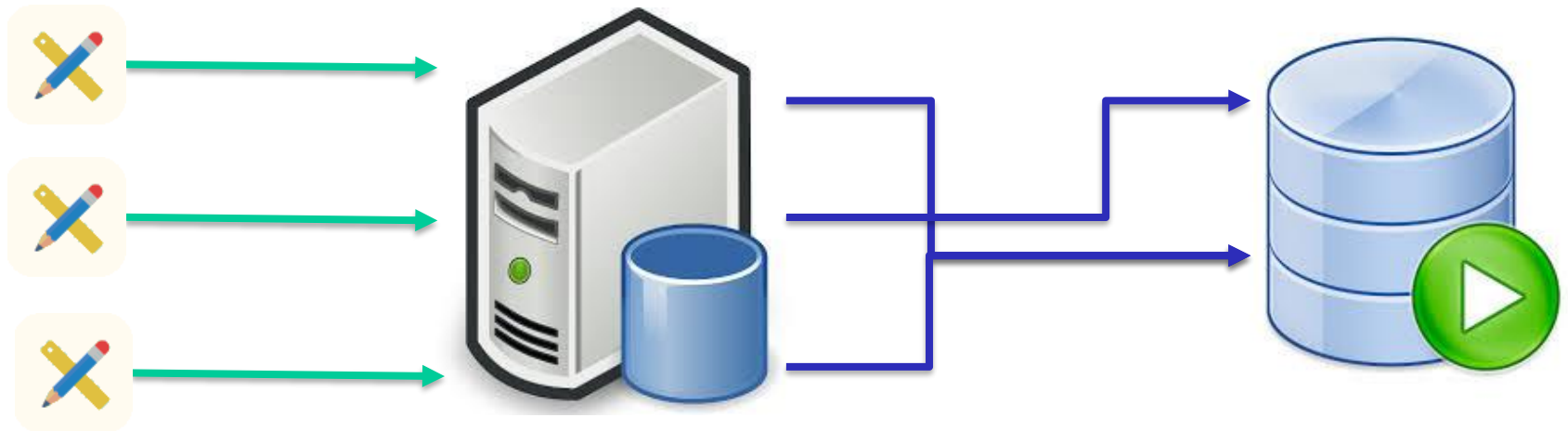
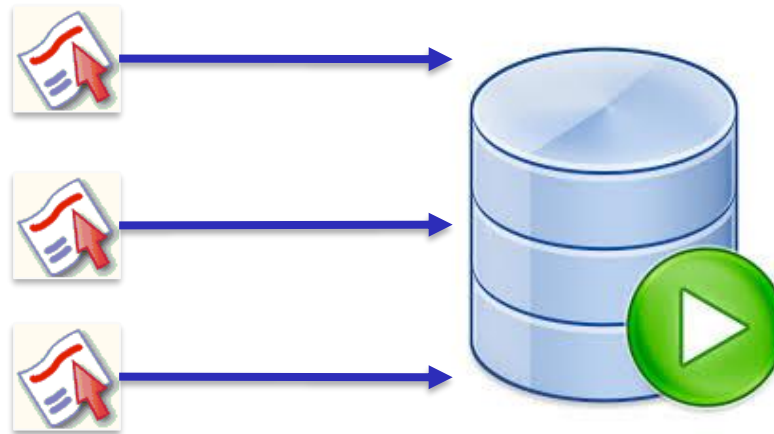


The screenshot shows the Oracle APEX Page Designer interface. The main configuration area is titled "Process" and contains the following details:

- Identification:**
 - Name: New - Save Interactive Grid Data
 - Type: Interactive Grid - Automatic Row Processing (DML)
- Settings:**
 - Target Type: PL/SQL Code
 - PL/SQL Code to Insert/Update/Delete:

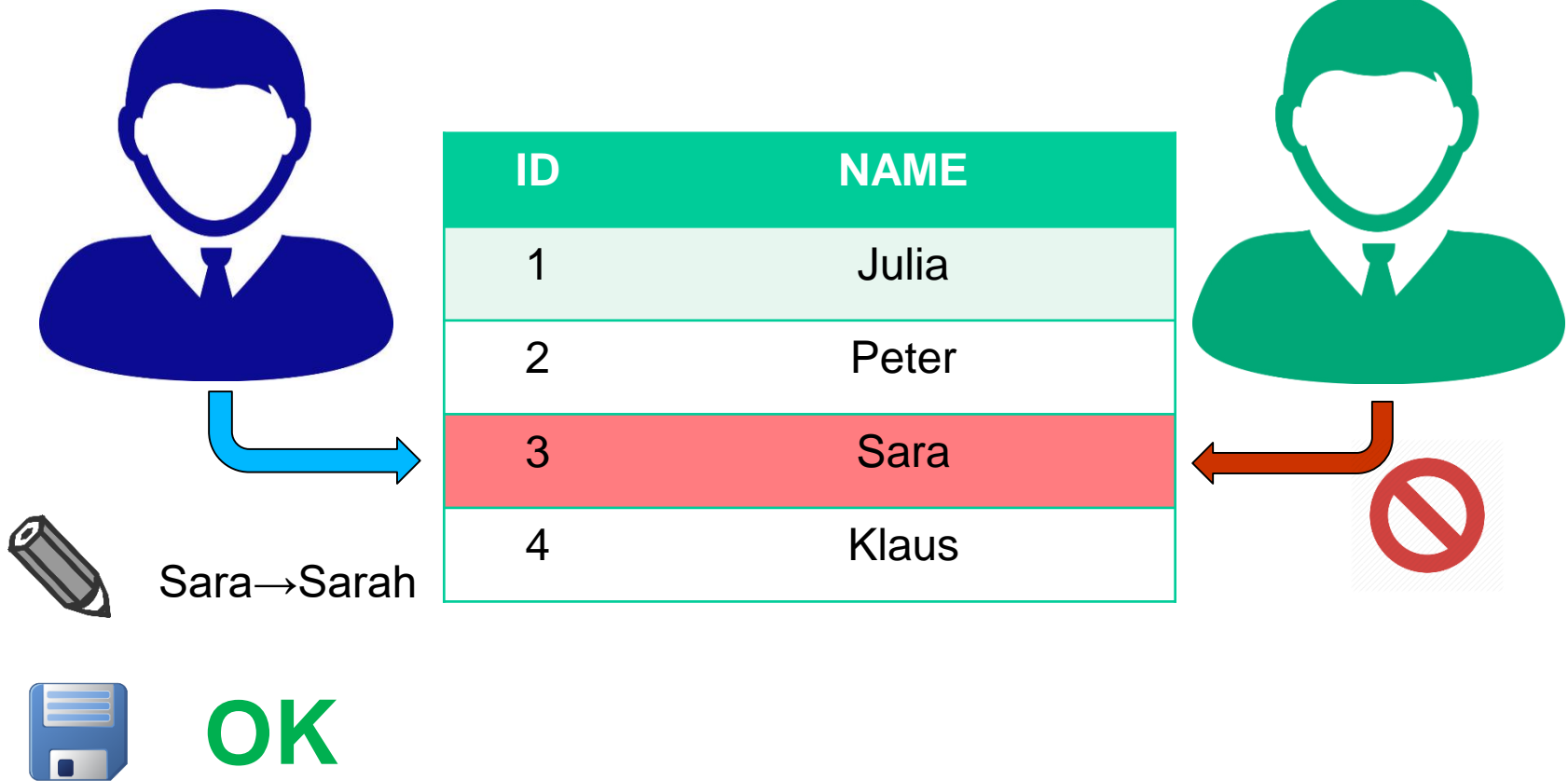

```
begin
  case :APEX$ROW_STATUS
    when 'C' then
      insert into emp ( empno, ename, deptno )
        values ( :EMPNO, :ENAME, :DEPTNO )
        returning rowid into :ROWID;
    when 'U' then
      update emp
        set ename = :ENAME,
```
 - Prevent Lost Updates: Yes No
 - Lock Row: Yes

SESSIONS



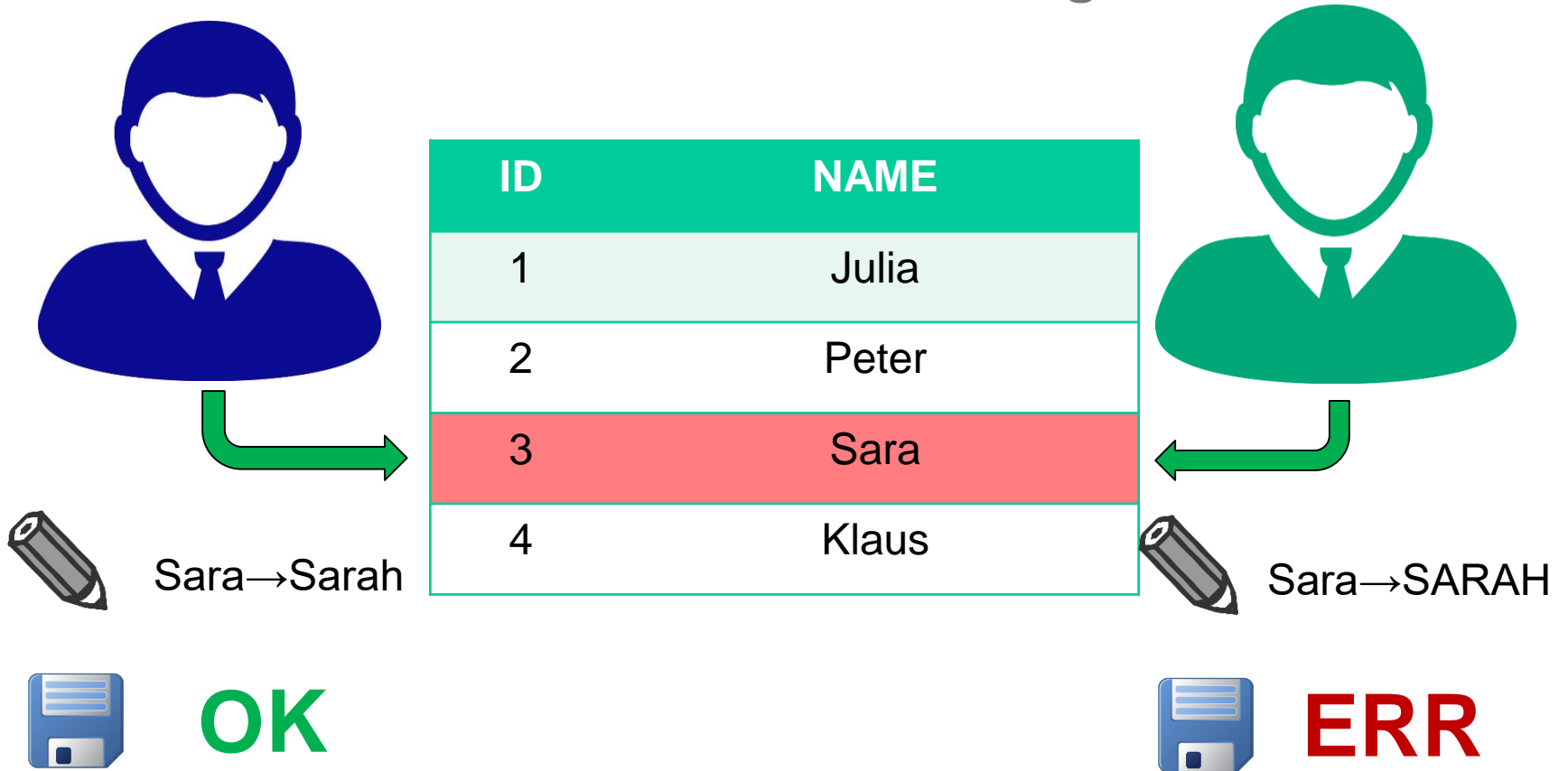
PESSIMISTISCHE SPERRUNG

„Hilfe, unser System hängt!“



OPTIMISTISCHE SPERRUNG

„Ich soll alle Daten neu eintragen!“



PRÜFSUMME



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OPTIMISTISCHE SPERRUNG MASKEN

Process

Filter

Identification

Name: Fetch Row from TEST_IG

Type: Automatic Row Fetch

Settings

Table Owner: Parsing Schema

Table Name: TEST_IG

Primary Key Column: ID

Primary Key Item: P3_ROWID

Secondary Key Column: - Select -

Row Version Column: VERSION

Runtime Where Clause

Process

Filter

Identification

Name: Process Row of TEST_IG

Type: Automatic Row Processing (DML)

Settings

Table Owner: Parsing Schema

Table Name: TEST_IG

Primary Key Column: ID



Primary Key Item: P3_ROWID

Secondary Key Column: - Select -

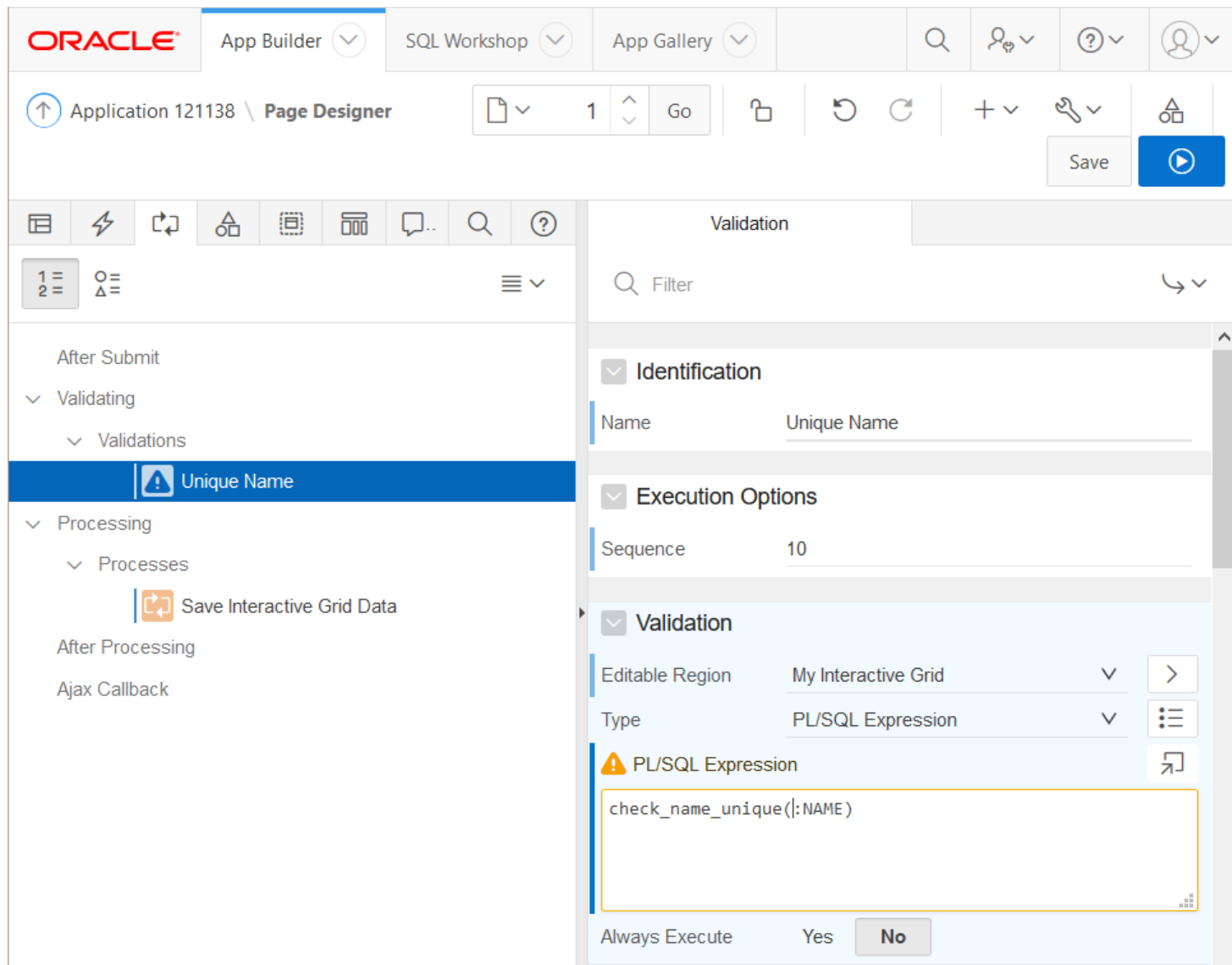
Row Version Column: VERSION

Runtime Where Clause

NÖTIGE ÄNDERUNGEN

- Version Spalte 
- Temporary Tables → APEX Collections
- Package Variables → Session Variables V(), NV()
- USER → V('APP_USER')
- WEB_UTIL 

VALIDATIONS



The screenshot shows the Oracle APEX Page Designer interface. The top navigation bar includes 'ORACLE', 'App Builder', 'SQL Workshop', and 'App Gallery'. The main toolbar shows 'Application 121138 \ Page Designer' and various action icons like 'Save' and 'Run'.

The left-hand navigation pane shows a tree structure:

- After Submit
- Validating
 - Validations
 - Unique Name** (highlighted)
- Processing
 - Processes
 - Save Interactive Grid Data
- After Processing
- Ajax Callback

The right-hand pane is titled 'Validation' and contains the following configuration details:

- Identification**: Name is 'Unique Name'.
- Execution Options**: Sequence is '10'.
- Validation**:
 - Editable Region: 'My Interactive Grid' (with a right arrow button).
 - Type: 'PL/SQL Expression' (with a list icon).
 - PL/SQL Expression: `check_name_unique(:NAME)` (with a refresh icon).
 - Always Execute: 'Yes' (with a 'No' button).

MODAL LOV

x

Search

%

ACCOUNTING

RESEARCH

SALES

OPERATIONS

x

Select a value or use up and down keys and hit enter

Name	Country	Born in
50 Cent	United States	1975
A. P. de Candolle	Switzerland	1778
Aage Niels Bohr	Denmark	1922
Aaron Burr	United States	1756
Aaron Ciechanover	Israel	1947
Aaron Klug	Lithuania	1926
Aaron Spelling	United States	1923
Abbas I of Persia	Afghanistan	1571
Abbas II of Egypt	Egypt	1874
Abbas Kiarostami	Iran	1940

1 - 10 Next ▶

Deptno

ACCOUNTING

RESEARCH
▼

ACCOUNTING

RESEARCH

SALES

OPERATIONS

SPALTE BEFÜLLEN

ORACLE
App Builder
SQL Workshop
App Gallery

Empno	Deptno	Country	Ename	Job
7780	OPERATIONS	BOSTON	ADAMS	CLERK
7654	OPERATIONS	BOSTON	MARTIN	SALESMAN
7369	OPERATIONS	BOSTON	SMITH	CLERK

Select a value

Enter a search term

ACCOUNTING	10	NEW YORK
RESEARCH	20	DALLAS
SALES	30	CHICAGO
OPERATIONS	40	BOSTON

Action

Filter

Settings

Set Type: SQL Statement

SQL Statement:

```
select loc as "Country"
from DEPT
where DEPTNO = :DEPTNO
```

Items to Submit: DEPTNO

Escape Special Characters: Yes No

Suppress Change Event: Yes No

Affected Elements

Selection Type: Column(s)

Column(s): COUNTRY

is-readonly

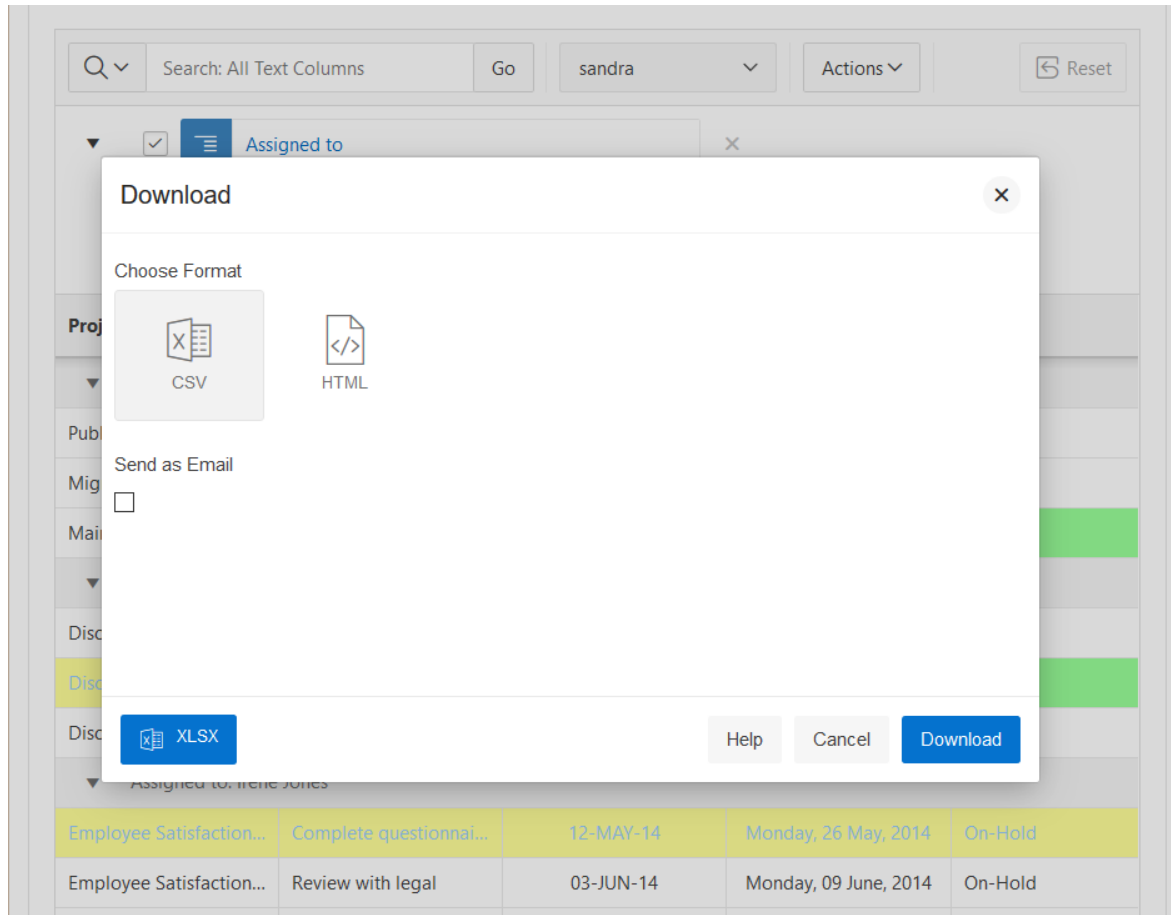
apex_disabled

- DEPTNO
- Dynamic Actions
 - On Change
 - True
 - Set Value**
- COUNTRY
 - Attributes

Content Body

PLUGINS

- Extend IG Toolbar with Input Field
- Interactive Report/Grid to MSExcel



EXPORT TO EXCEL

	A	B	C	D	E	F
1	Project	Start Date	Status	Cost	Code	Task Name
2	Assigned To: Al Bines					
3	Public Website	04-May-2014	On-Hold	\$300.00	06	Purchase additional software licenses, if needed
4	Migrate from SQL Server	26-Jun-2014	Pending	\$0.00	05	Decommission SQL Server
5	Maintain Support Systems	14-May-2014	Open	\$300.00	1c	Arrange for vacation coverage
6				\$600.00		
7	Assigned To: Hank Davis					
8	Discussion Forum	13-May-2014	Closed	\$250.00	09	Identify owners
9	Discussion Forum	22-May-2014	Open	\$450.00	08	Monitor participation
10	Discussion Forum	21-May-2014	Closed	\$100.00	05	Install APEX application on internet server
11				\$800.00		
12	Assigned To: Irene Jones					
13	Employee Satisfaction Survey	12-May-2014	On-Hold	\$1,200.00	06	Complete questionnaire
14	Employee Satisfaction Survey	03-Jun-2014	On-Hold	\$200.00	07	Review with legal
15	Employee Satisfaction Survey	10-Jun-2014	On-Hold	\$0.00	10	Plan rollout schedule
16				\$1,400.00		
17	Assigned To: James Cassidy					
18	Migrate from SQL Server	28-May-2014	Pending	\$0.00	15	Obtain SQL Server credentials
19	APEX Environment Configuration	05-Apr-2014	Closed	\$100.00	1f	Run installation
20	APEX Environment Configuration	27-Mar-2014	Closed	\$100.00	04	Determine Web listener configuration(s)
21	Train Developers in APEX	25-Apr-2014	Closed	\$500.00	07	Create training workspace
22	APEX Environment Configuration	28-Mar-2014	Closed	\$200.00	1.12	Select servers for Development, Test, Production
23				\$900.00		
24	Assigned To: John Watson					

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