**Oracle to PostgreSQL Functionalities**

1. **Typecasting Issues:**

* Always typecast the “**character varying”** to “**numeric"** to avoid performance.



Note if any Numeric Value is there don’t typecast 1::test –use ‘1’ ;

Ex:- lovdetailid = 1::text or lovdetailid::numeric = 1 convert as lovdetailid = ‘1’

2. Converted “**trunc(sysdate**)” to “**current\_date”** and trunc(iv\_todate) to iv\_todate::date -- (If iv\_todate data type is timestamp) =🡺Avinash

3. Converted **sysdate** to “**current\_timestamp(0)::timestamp”**. – **(already present in qbook ---Table)**

4 changed .**Getnumberval**() and **Getstringval**() Functions to “**numeric”** and “**text**” .

**Ex: GetStringval():::====(already present in qbook---common)**

**Oracle:**

Extract(v\_GRNDetails,'GRN/GRNDetails/@POCode').GetStringVal()

**Postgresql**:

(case when(select unnest(xpath('GRN/GRNDetails/@POCode',v\_grndetails )))::text = '' then null else (select unnest(xpath('GRN/GRNDetails/@POCode',v\_grndetails )))::text end)

**Ex: Getnumberval():-(already present in qbook)**

**Oracle:-**

[Extract(v\_GRNDetails,'GRN/GRNDetails/@BaseValue').GetNumberVal](mailto:Extract(v_GRNDetails,'GRN/GRNDetails/@BaseValue').GetNumberVal)()

**Postgresql:-**

(case when(select unnest(xpath('GRN/GRNDetails/@BaseValue',v\_grndetails )))::text = '' then null else (select unnest(xpath('GRN/GRNDetails/@BaseValue',v\_grndetails )))::text::numeric

5. Extractvalue:- If XML tag having Extractvalue then use regexp\_replace to convert into Postgresql---**(Already present in qbook ---common)**

Example:-

Oracle: Extractvalue(value(lk), 'AppointmentDate/StautsCheck')

Postgresql: ( select regexp\_replace(unnest( xpath( '/AppointmentDate/StautsCheck',l1i.value ) )::text,E'<[^>]+>', '', 'gi') )::text::numeric

6. Oracle **XMLTYPE** 🡺 Postgresql **XML(---Already present in qbook --common)**

7**. “to\_date****(‘DD-Mon-YYYY HH24:MI:SS)**“In Oracle gives date with time but in Postgres it will give only date. For resolving this issue in postgresql should be changed to “**to\_timestamp(‘DD-Mon-YYYY HH24:MI:SS)::timestamp**”.

8. Difference between two dates(Date with time) :-🡺 Chandani

Ex:-

A)

Oracle:- pv.visitouttime - pv.visitintime

Postgresql:- EXTRACT(EPOCH FROM (pv.visitouttime - pv.visitintime))/(24\*60\*60)

B)

Oracle:- floor((nvl(pbd.enddatetime, sysdate) - (pbd.startdatetime)) \* 24)

Postgresql;- floor((EXTRACT(EPOCH FROM coalesce(pbd.enddatetime, current\_timestamp(0)::timestamp) - (pbd.startdatetime)))/(60\*60))

C)

Oracle:- round(((pv.visitouttime - pv.visitintime) \* 24 \* 60),2)

Postgresql:- round(((EXTRACT(EPOCH FROM (pv.visitouttime - pv.visitintime))/(60)) ,2)

D)

Oracle:- round(((pv.visitouttime - pv.visitintime) \* 24 \* 60\*60),2)

Postgresql:- round((EXTRACT(EPOCH FROM (pv.visitouttime - pv.visitintime))) ,2)

9.ExistsNode in Oracle XML tags 🡺 xpath\_exists in postgresql 🡺chandani shukla

Ex:- Oracle:- SELECT existsNode(V\_INDEX,'/MedicationAdviceDetail/@Duration') .GETNUMBERVAL() INTO v\_durationwithunits FROM DUAL;

Postgresql:- select (xpath\_exists ('/MedicationAdviceDetail/@Duration',v\_index) into v\_durationwithunits;

10. **Decode(---Already present in qbook)**

**Oracle:** SELECT employee\_id,DECODE(job\_id, 'MANAGER', 'Senior Manager', 'CLERK', 'Office Clerk', 'Other Position') AS job\_titleFROM employees;

**Postgresql**:

SELECT employee\_id, CASE WHEN job\_id = 'MANAGER' THEN 'Senior Manager' WHEN job\_id = 'CLERK' THEN 'Office Clerk' ELSE 'Other Position' END AS job\_title FROM employees;

11. **SYS\_CONTEXT**: --avinash

**Oracle:**  public.SYS\_CONTEXT('userenv','db\_name’) 🡺 **Postgresql:** current\_Database(),

**Oracle: public.**sys\_context('USERENV', 'SESSIONID') 🡺 **Postgresql:** spg\_backend\_pid();

**Oracle**: **public.sys\_context('USERENV', 'IP\_ADDRESS')  🡺 Postgresql: inet\_client\_addr()**

12.Count Of UPPERCASELETTERS in given String:- 🡺Chandani shukla

Oracle:- SELECT regexp\_count('iv\_MM\_BUSINESSTRANSKEY', '[A-Z]') as uppercase\_count FROM dual

Postgresql:- SELECT LENGTH(REGEXP\_REPLACE('iv\_MM\_BUSINESSTRANSKEY', '[^A-Z]', '', 'g')) AS uppercase\_count

13. Replace **current\_user** to **session\_user** in any trigger function or any CO object. 🡺Avinash

14. date + Number addition:-🡺Chandani Shukla

Oracle:- select p.createddate + ln\_prnexpiryduration from Dual;

Postgresql:- select p.createddate + (ln\_prnexpiryduration || 'days' )::interval ;

15. Need to Change single quotes(‘’) to null in select statements for columns. 🡺Avinash

16. **Nextval(---already present in qbook)**

**Oracle:** select sequencename.nextval into lv\_patient1 ;

**Postgresql:**  select nextval(sequencename) into lv\_patient1 ;

17. **dbms\_utility.format\_error\_backtrace:🡺chandani shukla**

**Oracle:** dbms\_utility.format\_error\_backtrace

**Postgres:**

EXCEPTION WHEN OTHERS THEN

GET STACKED DIAGNOSTICS m\_context = pg\_exception\_context;

**18.XMl SEQUENCE:-- Already present in Qbook**

**Oracle:**

FROM TABLE(Xmlsequence(extract(v\_GRNDetails,'GRN/GRNItemDetails'))) tb1;

**Postgresql:**

from (with ctc as (select unnest (xpath ('GRN/GRNItemDetails',v\_grndetails ) )as value ) select value from ctc )tb1 )res ;

19**. Generate Series:🡺Avinash**

**Oracle:**

SELECT sysdate + rownum - 1 AS DT FROM DUAL CONNECT BY ROWNUM <= 31

**Postgresql:**

SELECT current\_timestamp(0)::timestamp + (generate\_series - 1) AS DT FROM generate\_series(1, 31);

20. **Listagg:: Already present in Qbook**

**Oracle :**

SELECT LISTAGG(ENAME, '; ') WITHIN GROUP (ORDER BY hiredate) "Employees"  
 FROM EMP  
 GROUP BY DEPTNO  
 ORDER BY DEPTNO;

**Postgresql:**

SELECT STRING\_AGG(ename, ';' ORDER BY hiredate) AS "Employees"   
 FROM emp   
 GROUP BY deptno  
 order by deptno;