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PL/SQL installation:
Variables in PL/SQL
As we have done earlier in postgreSQL.
First PLSQL program
set serveroutput on;
declare
vtext varchar(100);
begin
vtext:='Hello World';
dbms output.put line(vtext);
end;
Statement processed.
Hello World
declare
vnumber binary_float:=50.25;
begin
dbms_output.put_line(vnumber||' is a float Number');
Statement processed.
5.025E+001 is a float Number
Doing all datatypes with the plsql as examples:
declare
vdate date:=sysdate;
dbms_output_line(vdate||' today date');
Statement processed.
20-DEC-23 today date
```

```
Declare
vtimestamp timestamp:=systimestamp;
dbms output.put line(vtimestamp||' Current TimeStamp');
Statement processed.
20-DEC-23 08.37.28.628500 AM Current TimeStamp
A syntax for all data type implementation in PLSQL
------DECLARING VARIABLES-----
SET SERVEROUTPUT ON;
DECLARE
 v \, varchar2(20) := 2 + 25 * 3;
BEGIN
  dbms output.put line(v);
END:
DECLARE
  v text varchar2(50) NOT NULL DEFAULT 'Hello';
  v number 1 = 50;
  v number2 number(2) := 50.42;
  v number3 number(10,2) := 50.42;
  v number4 PLS INTEGER := 50;
  v number5 BINARY float := 50.42;
  v DATE1 DATE := '22-NOV-18 12:01:32';
  v DATE2 timestamp := systimestamp;
  v DATE3 timestamp(9) WITH TIME ZONE := systimestamp;
  v DATE4 interval day(4) to second (3) := '124 02:05:21.012 ';
  v DATE5 interval year to month := '12-3';
BEGIN
  V TEXT := 'PL/SQL' || 'Course';
  DBMS OUTPUT.PUT LINE(V TEXT);
  DBMS OUTPUT.PUT LINE(v number1);
  DBMS OUTPUT.PUT LINE(v number2);
  DBMS OUTPUT.PUT LINE(v number3);
  DBMS_OUTPUT.PUT_LINE(v_number4);
  DBMS OUTPUT.PUT LINE(v number5);
  DBMS OUTPUT.PUT LINE(v DATE1);
```

DBMS_OUTPUT.PUT_LINE(v_DATE2);
DBMS_OUTPUT.PUT_LINE(v_DATE3);

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DBMS OUTPUT.PUT LINE(v DATE4);
  DBMS_OUTPUT.PUT_LINE(v_DATE5);
  END;
-----USING BOOLEAN DATA TYPE in PL/SQL-----
DECLARE
  v boolean boolean := true;
BEGIN
  dbms output.put line(sys.diutil.bool to int(v boolean));
%Type Attribute:
declare
v empid hr.employees.employee id%type;
v empfname hr.employees.first name%type;
v emplname hr.employees.last name%type;
begin
dbms output.put line(v empid||' is datatype for id');
dbms_output.put_line(v_empfname||' is datatype for fname');
dbms_output.put_line(v_emplname||' is datatype for lname');
end:
Statement processed.
is datatype for id
is datatype for fname
is datatype for lname
begin <<outer>>
```

```
begin <<outer>>
DECLARE
--v_outer VARCHAR2(50) := 'Outer Variable!';
v_text VARCHAR2(20) := 'Out-text';
BEGIN
DECLARE
v_text VARCHAR2(20) := 'In-text';
v_inner VARCHAR2(30) := 'Inner Variable';
BEGIN
```

```
--dbms_output_put_line('inside -> ' || v_outer);
  --dbms_output.put_line('inside -> ' || v_inner);
   dbms_output_line('inner -> ' || v_text);
   dbms output.put line('outer -> ' || outer.v text);
 END;
 --dbms output.put line('inside -> ' || v inner);
 --dbms output.put line(v outer);
 dbms_output.put_line(v_text);
END;
END outer;
Statement processed.
inner -> In-text
outer -> Out-text
Out-text
--- to check odd or even
declare
v no number:=10;
r number;
begin
r:=mod(v no, 2);
if r=0 then
      dbms output.put line('Even');
else
      dbms output.put line('Odd');
end if;
end;
Statement processed.
Even
declare
v num number(2):=1;
begin
  dbms output.put line('Count: '||v num);
 v num:=v num+1;
 exit when v_num=12;
end loop;
end;
Statement processed.
Count: 1
Count: 2
Count: 3
```

Count: 4

Count: 5

Count: 6

Count: 7

Count: 8

Count: 9

Count: 10

Count: 11