

```
1 declare
2     a number :=5;
3     b number :=6;
4     c number;
5 begin
6     c :=a+b;
7     dbms_output.put_line('sum of ' ||a|| ' and ' ||b|| ' is ' ||c);
8 end;
9 /
```

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The user 'vutukuri pravallika' is logged in. The 'SQL Commands' tab is active, showing a PL/SQL block with a variable 'a' set to 5. The block contains an if-else statement that prints '5 is odd'. The 'Run' button is highlighted in green. Below the code editor, the 'Results' tab shows the output '5 is odd' and the message 'statement processed.'.

```
1 declare a number :=5;  
2 begin  
3   if(mod(a,2)=0) then  
4     dbms_output.put_line(a || ' is even ');  
5   else  
6     dbms_output.put_line(a || ' is odd ');  
7   end if;  
8 end;
```

Results Explain Describe Saved SQL History

5 is odd
statement processed.

The screenshot shows the APEX SQL Workshop interface with the same PL/SQL block as above, but with the variable 'a' set to 4. The 'Run' button is highlighted in green. Below the code editor, the 'Results' tab shows the output '4 is even' and the message 'Statement processed.'.

```
1 declare a number :=4;  
2 begin  
3   if(mod(a,2)=0) then  
4     dbms_output.put_line(a || ' is even ');  
5   else  
6     dbms_output.put_line(a || ' is odd ');  
7   end if;  
8 end;  
9
```

Results Explain Describe Saved SQL History

4 is even
Statement processed.

SQL Commands

apex.oracle.com/pls/apex/f?p=4500:1003:103643178846136:.....

APEX

App Builder

SQL Workshop

Team Development

Gallery

VP

vutukuri pravallika

dell

SchemaWKSP_DELL

LanguageSQLRows10Clear CommandFind TablesSaveRun

↶↷🔍🔧A⇅⚙️

1declare

2a number :=10;

3i number :=1;

4begin

5if(a>0) then

6for i in 1..a

7loop

8dbms_output.put_line(i);

Results

Explain

Describe

Saved SQL

History

1

2

3

4

5

6

7

8

9

10

pravallikavutukuri365@gmail.com

dell

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Application Express 211.2

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SQL Commands

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APEX

App Builder

SQL Workshop

Team Development

Gallery

VP

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dell

SQL Commands

Schema

WKSP_DELL

Language

SQL

Rows

10

Clear Command

Find Tables

Save

Run

↶

↷

🔍

🔗

A::

⚙️

1

declare

2

a number :=5;

3

b number :=6;

4

c number :=2;

5

d number ;

6

r1 number ;

7

r2 number ;

8

begin

9

d:=b*b-4*a*c;

10

if(d>0) then

11

r1:=(-b+sqrt(d))/(2*a);

Results

Explain

Describe

Saved SQL

History

the roots are-.6and+i.2-.6-i.2

Statement processed.

0.00 seconds

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dell

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SQL Commands

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APEX App Builder SQL Workshop Team Development Gallery

Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 declare
2   n number :=4;
3   i number :=1;
4   cnt number :=0;
5 begin
6   for i in 1..n
7   loop
8     if(mod(n-i)=0) then
```

Results Explain Describe Saved SQL History

4is not prime
Statement processed.
0.01 seconds

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SQL Commands

apex.oracle.com/pls/apex/f?p=4500:1003:103643178846136::

APEX App Builder SQL Workshop Team Development Gallery

Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 declare
2   n number :=2;
3   i number :=1;
4   cnt number :=0;
5 begin
6   for i in 1..n
7   loop
8     if(mod(n-i)=0) then
```

Results Explain Describe Saved SQL History

2is prime
Statement processed.
0.00 seconds

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SQL Commands

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APEX

App Builder

SQL Workshop

Team Development

Gallery

VP

vutukuri pravallika

dell

Schema

WKSP_DELL

Language

SQL

Rows

10

Clear Command

Find Tables

Save

Run

1

declare

2

n number :=5;

3

i number :=1;

4

begin

5

for i in 1..10

6

loop

7

dbms_output.put_line(n || '*' || i || '=' || n*i);

Results

Explain

Describe

Saved SQL

History

5*1=5

5*2=10

5*3=15

5*4=20

5*5=25

5*6=30

5*7=35

5*8=40

5*9=45

5*10=50

Statement processed.

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dell

en

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Type here to search

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APEX App Builder ▾ SQL Workshop ▾ Team Development ▾ Gallery 🔍 🧑 ? **vp** vutukuri pravallika dell

↑ SQL Commands Schema WKSP_DELL ?

Language SQL ▾ ? Rows 10 ▾ ? Clear Command Find Tables Save Run

↶ ↷ 🔍 📌 A:: ⚙️ ▾

```
1 declare
2   n number :=65;
3   rem number :=0;
4   tot number :=0;
5   k number :=0;
6 begin
7   k :=n;
8   while(n>0)
9     loop
```

Results Explain Describe Saved SQL History

65is not palindrome

Statement processed.

0.06 seconds

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↑ SQL Commands Schema WKSP_DELL ?

Language SQL ▾ ? Rows 10 ▾ ? Clear Command Find Tables Save Run

↶ ↷ 🔍 📌 A:: ⚙️ ▾

```
1 declare
2   n number :=66;
3   rem number :=0;
4   tot number :=0;
5   k number :=0;
6 begin
7   k :=n;
8   while(n>0)
9     loop
```

Results Explain Describe Saved SQL History

66is palindrome

Statement processed.

0.01 seconds

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Results **Explain** **Describe** **Saved SQL** **History**

Statement processed.

0.01 seconds

Results Explain Describe Saved SQL History

Statement processed.

0.14 seconds

11

Statement processed.

Results Explain Describe Saved SQL History

0.05 seconds

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SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 create or replace procedure product(a in number,b in number)as c number;
2 begin
3   c:=a*b;
4   dbms_output.put_line('Product of'||a||'and'||b||'is'||c);
5 end;
6
```

Results Explain Describe Saved SQL History

Procedure created.

0.01 seconds

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SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1
2 declare
3   x number:=100;
4   y number:=6;
5 begin
6   product(x,y);
7 end;
8
```

Results Explain Describe Saved SQL History

Product of100and6is600

Statement processed.

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APEX App Builder SQL Workshop Team Development Gallery

SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 create or replace procedure db(p in programmer.pname%type) as
2   d programmer.dob%type;
3 begin
4   select dob into d from programmer where pname=p;
5   dbms_output.put_line('Dob is '||d);
6 exception
7   when no_data_found then
8     dbms_output.put_line('NO DATA');
9 end;
```

Results Explain Describe Saved SQL History

Procedure created.

0.08 seconds

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SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 declare
2   x programmer.PNAME%type:='Altaf';
3 begin
4   db(x);
5 end;
```

Results Explain Describe Saved SQL History

Dob is 07/02/1964

Statement processed.

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SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 create or replace function add2(a in number,b in number) return number as c number;
2 begin
3   c:=a+b;
4   return(c);
5 end;
6
```

Results Explain Describe Saved SQL History

Function created.

0.03 seconds

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SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 declare
2   x number:=5;
3   y number:=12;
4   r number;
5 begin
6   r:=add2(x,y);
7   dbms_output.put_line('Sum is :'||r);
8 end;
```

Results Explain Describe Saved SQL History

Sum is :17

Statement processed.

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SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 create or replace function getdb(p in programmer.pname%type) return date as
2   d programmer.dob%type;
3 begin
4   select dob into d from programmer where pname=p;
5   return(d);
6 end;
7
```

Results Explain Describe Saved SQL History

Function created.

0.07 seconds

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APEX App Builder SQL Workshop Team Development Gallery

SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 declare
2   x programmer.pname%type:='Altaf';
3   r programmer.dob%type;
4 begin
5   r:=getdb(x);
6   dbms_output.put_line('Date of birth is '||r);
7 end;
8
9
```

Results Explain Describe Saved SQL History

Date of birth is 07/02/1964

Statement processed.

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APEX App Builder SQL Workshop Team Development Gallery

SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 create or replace procedure getname(sp in studies.splace%type) as
2   cursor s is select * from studies where splace=sp;
3   t s%rowtype;
4 begin
5   open s;
6   loop
7     fetch s into t;
8     exit when s%notfound;
9     dbms_output.put_line(t.pname);
10    end loop;
11  close s;
12 end;
```

Results Explain Describe Saved SQL History

Procedure created.

0.10 seconds

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APEX App Builder SQL Workshop Team Development Gallery

SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 declare
2   x studies.splace%type:='BITS';
3 begin
4   getname(x);
5 end;
```

Results Explain Describe Saved SQL History

Juliana

Statement processed.

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APEX App Builder SQL Workshop Team Development Gallery

SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 create or replace function gettot(p in software.pname%type) return number as
2   r number;
3   cursor s is select * from software where pname=p;
4   t s%rowtype;
5 begin
6   r:=0;
7   open s;
8   loop
9     fetch s into t;
10    exit when s%notfound;
11    r:=r+t.dcost;
12  end loop;
13  close s;
```

Results Explain Describe Saved SQL History

Function created.

0.04 seconds

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APEX App Builder SQL Workshop Team Development Gallery

SQL Commands Schema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 declare
2   res number;
3   p software.pname%type:='Vijaya';
4 begin
5   res:=gettot(p);
6   dbms_output.put_line('Total development cost is '||res);
7 end;
```

Results Explain Describe Saved SQL History

Total development cost is 700

Statement processed.

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SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A:

```
1 create or replace package my_pack1 is
2     procedure product_table(a in number);
3     function product(a in number,b in number)return number;
4 end;
5 
```

Results Explain Describe Saved SQL History

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A:

```
1 create or replace package body my_pack1 as
2     procedure product_table(a in number)as
3     i number;
4     begin
5         i:=1;
6         while(i<=10)
7         loop
8             dbms_output.put_line(a||'*'||i||'='||a*i);
9             i:=i+1;
10        end loop;
11    end product_table;
12    function product(a in number,b in number)return number as c number;
13    begin
```

Results Explain Describe Saved SQL History

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A:

```
1 declare
2     x number:=12;
3     y number:=2;
4     z number;
5 begin
6     my_pack1.product_table(x);
7     z:=my_pack1.product(x,y);
```

Results Explain Describe Saved SQL History

```
12*1=12
12*2=24
12*3=36
12*4=48
12*5=60
12*6=72
12*7=84
```

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

↶ ↷ 🔍 ↵ A:: ⚙️

```
1 create or replace package pack1 is
2     procedure p1(p in programmer.pname%type);
3     function f1(t in software.TITLE%type) return software.PNAME%type;
4 end;
5
6 |
```

Results Explain Describe Saved SQL History

Package created.

0.12 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

↶ ↷ 🔍 ↵ A:: ⚙️

```
1 create or replace package body pack1 as
2     procedure p1(p in programmer.pname%type) as
3         s programmer.SALARY%type;
4     begin
5         select SALARY into s from programmer where PNAME=P;
6         dbms_output.put_line('Salary is :'||s);
7     end p1;
```

Results Explain Describe Saved SQL History

Package Body created.

0.17 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

↶ ↷ 🔍 ↵ A:: ⚙️

```
1 declare
2     a programmer.PNAME%type := 'Mary';
3     b software.TITLE%type := 'Dead Lee';
4     r software.PNAME%type;
5 begin
6     pack1.p1(a);
7     r := pack1.f1(b);
```

Results Explain Describe Saved SQL History

Salary is :4500
PNAME og given project :Ramesh

Statement processed.

0.07 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
1 create or replace package pack2 is
2   procedure p2(x in software.DEV_D%type);
3   function f2(y in studies.PNAME%type) return studies.SPLACE%type;
4 end;
5
```

Results Explain Describe Saved SQL History

Package created.

0.16 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
16
17   begin
18       select SPLACE into r from studies where PNAME=r;
19       return r;
20   end f2;
21 end;
```

Results Explain Describe Saved SQL History

Package Body created.

0.08 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
1 declare
2   a programmer.pname%type:='Anand';
3   b software.title%type:='Read Me';
4   r software.pname%type;
5 begin
6   pack1.p1(a);
7   r:=pack1.f1(b);
```

Results Explain Describe Saved SQL History

Salary is :3200
pname of given project:Patrick

Statement processed.

0.06 seconds

SQL Commands

Exception Handling in PL/SQL - C x +

← → ↺

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APEX

App Builder ▾

SQL Workshop ▾

Team Development ▾

Gallery

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vutukuri pravallika

dell

↑ SQL Commands

Schema WKSP_DELL ▾ ?

Language SQL ▾ ?

Rows 10 ▾ ?

Clear Command

Find Tables

Save

Run

↶ ↷ 🔍 📌 A:: ⚙ ▾

1 DECLARE

2 a programmer.pname%type:='anand';

3 dateofprogrammer.doj%type;

4 invalid age_exception exception

Results

Explain

Describe

Saved SQL

History

sorry!!is not eligible to vote

Statement processed.

0.06 seconds

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ENG

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12-08-2021

1

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
1 create table student1(rollno number(3) primary key,
2   sname varchar2(15),
3   marks1 number(3),
4   marks2 number(3),
5   total number(4));
6
```

Results Explain Describe Saved SQL History

Table created.

0.09 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
2 declare
3 begin
4   :new.total := :new.marks1 + :new.marks2;
5 end;
6
7
```

Results Explain Describe Saved SQL History

Trigger created.

0.11 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
1 select * from student1;
```

Results Explain Describe Saved SQL History

no data found

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

1 create table prog as select pname, salary from programmer;

ResultsExplainDescribeSaved SQLHistory

Table created.

0.22 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

1 create table update_prog
2 (pname varchar2(20),
3 old_salary number(7,2),
4 new_salary number(7,2),
5 dt date,
6 time varchar2(10));
7

ResultsExplainDescribeSaved SQLHistory

Table created.

0.03 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

1 create or replace trigger update_status after update on prog for each row
2 begin
3 insert into update_prog values(:old.pname, :old.salary, :new.salary, sysdate, substr(current_timestamp,11,8));
4 end;
5

ResultsExplainDescribeSaved SQLHistory

Trigger created.

0.09 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
1 create table student
2 (roll number(3) primary key,
3 sname varchar2(15),
4 age number(3));
5 |
```

ResultsExplainDescribeSaved SQLHistory

Table created.

0.04 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
1 create or replace trigger age before insert on student
2 declare
3 begin
4     update student set age=age+1;
5 end;
6 |
```

ResultsExplainDescribeSaved SQLHistory

Trigger created.

0.18 seconds

SQL CommandsSchema WKSP_DELL

Language SQL Rows 10 Clear Command Find Tables Save Run

A::

```
1 select * from student;
2 |
```

ResultsExplainDescribeSaved SQLHistory

no data found