

FUNCTIONS

1.Add 2 Number

SQL> create or replace function add_fun(a number,b number) return number as

2 c number;

3 begin

4 c:=a+b;

5 return c;

6 end;

7 /

Function created.

SQL> declare

2 result number;

3 begin

4 result:=add_fun(10,20);

5 dbms_output.put_line('the sum of 10 and 20 is '||result);

6 end;

7 /

the sum of 10 and 20 is 30

PL/SQL procedure successfully completed.

2. Armstrong

SQL> create or replace function armstrong(n number) return number is

```
2 r number(10);
3 a number(10);
4 b number(10);
5 c number(10);
6 begin
7 b:=0;
8 c:=n;
9 while(c>0)
10 loop
11 r:=c mod 10;
12 b:=b+(r*r*r);
13 c:=floor(c/10);
14 end loop;
15 return b;
16 end armstrong;
17 /
```

Function created.

SQL> declare

```
2 n number(10);
3 m number(10);
4 begin
5 n:=&n;
6 m:=armstrong(n);
7 if(m=n) then
8 dbms_output.put_line('Number is Armstrong');
```

```

9 else
10 dbms_output.put_line('Number is not an Armstrong ');
11 end if;
12 end;
13 /

```

Enter value for n: 153

old 5: n:=&n;

new 5: n:=153;

Number is Armstrong

PL/SQL procedure successfully completed.

3. SQL> select * from item;

ITEM_ID	ITEMNAME	PRICE
1234	Geera	204.5
1235	Colgate	200
1236	lays	50
1237	Biscuit	100

SQL> create or replace function itemprice(id number) return number is

```

2 p item.price % type;
3 begin
4 select price into p from item where item_id=id;

```

```
5 return(p);
```

```
6 end;
```

```
7 /
```

Function created.

SQL> create or replace function itemname(id number) return number is

```
2 p item.name % type;
```

```
3 begin
```

```
4 select itemname into n from item where item_id=id;
```

```
5 return(n);
```

```
6 end;
```

```
7 /
```

Function created.

SQL> declare

```
2 pr number; id number;
```

```
3 name varchar(30);
```

```
pr number;
```

```
4 begin
```

```
5 id:=&item_id;
```

```
name:=itemname(id);
```

```
6 pr:=itemprice(id);
```

```
7 dbms_output.put_line('item Price is RS:'||pr);
```

```
dbms_output.put_line('item Name is :'||name);
```

8 end;

9 /

Enter value for itemid: 1236

old 6: id:=&item_id;

new 6: id:=1236;

item Price is RS:50

item Name is :lays

4. SQL> create or replace function pow (n1 number,n2 number) return number as

2 res number;

3 begin

4 select power (n1,n2) into res from dual;

5 return res;

6 end;

7 /

Function created.

PL/SQL procedure successfully completed.

SQL> declare

2 a number;

3 b number;

4 begin

5 a:=&a;

```
6 b:=&b;  
7 dbms_output.put_line('power(n1,n2)=||pow(a,b));  
8 end;  
9 /
```

Enter value for a: 4

old 5: a:=&a;

new 5: a:=4;

Enter value for b: 3

old 6: b:=&b;

new 6: b:=3;

power(n1,n2)=64

PL/SQL procedure successfully completed.