ASSIGNMENT-8

DBMS LAB

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2020CSB046

1.

SQL Worksheet

```
1  DECLARE
2      a NUMBER := 2022;
3      b NUMBER := 2001;
4      c NUMBER := 2009;
5  BEGIN
6      IF a >= b
7      AND a >= c THEN
8      dbms_output.Put_line('Maximum number is '
9                           ||a);
10     ELSIF b >= a
11         AND b >= c THEN
12     dbms_output.Put_line('Maximum number is '
13                          ||b);
14     ELSE
15     dbms_output.Put_line('Maximum number is '
16                          ||c);
17     END IF;
18     IF a <= b
19     AND a <= c THEN
20     dbms_output.Put_line('Minimum number is '
21                          ||a);
22     ELSIF b <= a
23         AND b <= c THEN
24     dbms_output.Put_line('Minimum number is '
25                          ||b);
26     ELSE
27     dbms_output.Put_line('Minimum number is '
28                          ||c);
29     END IF;
30
31 END;
32 --End program
33
```

```
Statement processed.
Maximum number is 2022
Minimum number is 2001
```

2.

SQL Worksheet

```
1  DECLARE
2     a NUMBER:=4;
3     i NUMBER:=1;
4     result NUMBER:=1;
5  BEGIN
6     while i<=a
7     loop
8       result:=result*i;
9       i:=i+1;
10     end loop;
11    dbms_output.Put_line('Factorial:' || result);
12 END;
13 --End Program
```

```
Statement processed.
Factorial:24
```

3.

SQL Worksheet

```
1  DECLARE
2     str VARCHAR2(40);
3     result VARCHAR2(40);
4     len NUMBER;
5  BEGIN
6     str:='SUBHAJIT';
7     len:=length(str);
8     for i in reverse 1..len
9     loop
10      result:=result||substr(str,i,1);
11     end loop;
12     dbms_output.Put_line('Reverse:' || result);
13 END;
14 --End Program
```

```
Statement processed.
Reverse:TIJAHBUS
```

4.

SQL Worksheet

```
1  create table ACCOUNT_MASTER(acct_no number(5) primary key,
2                              type varchar2(10),
3                              curbal number(10),
4                              status varchar(10));
5
6  insert into ACCOUNT_MASTER values(1, 'CA', 1000,'A');
7  insert into ACCOUNT_MASTER values(2, 'SB', 100,'S');
8  insert into ACCOUNT_MASTER values(3, 'CA', 1100,'T');
9  insert into ACCOUNT_MASTER values(4, 'CA', 700,'A');
10 insert into ACCOUNT_MASTER values(5, 'SB', 1700,'A') ;
11
12 DECLARE
13 xacct_no number(5);
14 xmin_bal number(5):=1000;
15 xbalance number(5);
16
17 BEGIN
18 xacct_no:=4;
19 select curbal into xbalance
20 from ACCOUNT_MASTER
21 where acct_no=xacct_no;
22
23 IF(xbalance < xmin_bal) THEN
24 update ACCOUNT_MASTER
25 set curbal=curbal-100
26 where acct_no=xacct_no;
27
28 xbalance:=xbalance-100;
29 dbms_output.put_line('Rs 100 is deducted
30           and current balance is '||xbalance);
31
32 ELSE
33 dbms_output.put_line('Current balance is '||xbalance);
34 END IF;
35 END;
36
37
```

```
Statement processed.
Rs 100 is deducted
                        and current balance is 600
```

5.

SQL Worksheet

```
1  create table areas ( r number(2), area number (14,2));
2  declare
3  r number(5);
4  area number(14,2);
5  pi constant number (4,2):=3.14;
6  begin
7  r:=3;
8  while r<=7
9  loop
10 area:=pi*power(r,2);
11 insert into areas values(r,area );
12 r:=r+1;
13 end loop;
14 end;
15 select * from areas;
```

R	AREA
3	28.26
4	50.24
5	78.5
6	113.04
7	153.86
3	28.26
4	50.24
5	78.5
6	113.04
7	153.86

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10 rows selected.