ASSIGNMENT NO. 3

**Operators:**

**//Arithmetic operators**

select sal,sal+500 from empl where did=20;

SAL SAL+500

45000 45500

25000 25500

45000 45500

3 rows returned in 0.00 seconds

//Aliases

EMPNAME

Dnyaneshwari

ravi

pranit

3 rows returned in 0.01 seconds

//Comparison operators

//less than or equal to

select \* from empl where sal<=30000;

EID ENAME SAL COMM JOBID HIREDATE DID

5 rajani 25000 2000 55 05/05/2017 40

6 ravi 25000 2000 56 02/12/2017 20

8 prachi 30000 1500 58 12/25/2017 40

3 rows returned in 0.00 seconds

//between-and

select \* from empl where sal between 35000 and 40000;

EID ENAME SAL COMM JOBID HIREDATE DID

3 rupa 35000 4000 53 05/20/2017 10

7 priya 35000 2500 57 02/12/2017 30

2 rows returned in 0.00 seconds

//IN(set)

select \* from empl where did in(10,30);

EID ENAME SAL COMM JOBID HIREDATE DID

3 rupa 35000 4000 53 05/20/2017 10

4 komal 55000 5000 54 01/01/2017 30

//like

select ename from empl where ename like '\_a%';

ENAME

rajani

ravi

2 rows returned in 0.00 seconds

//Logical operator

//AND

select \* from empl where did=10 and ename like 's%';

EID ENAME SAL COMM JOBID HIREDATE DID

1 swaranjali 50000 4000 51 08/16/2017 10

1 rows returned in 0.00 seconds

//NOT IN

select \* from empl where did not in(10,20,30);

EID ENAME SAL COMM JOBID HIREDATE DID

5 rajani 25000 2000 55 05/05/2017 40

8 prachi 30000 1500 58 12/25/2017 40

2 rows returned in 0.00 seconds

Functions:

//Character functions

select initcap(ename) from empl where did=20;

INITCAP(ENAME)

Dnyaneshwari

Ravi

Pranit

select concat(ename,'jadhav') from empl where eid=1;

CONCAT(ENAME,'JADHAV')

swaranjalijadhav

1 rows returned in 0.00 seconds

select substr(ename,1,5) from empl where eid=1;

SUBSTR(ENAME,1,5)

swara

1 rows returned in 0.00 seconds

select length(ename) from empl where eid=1;

LENGTH(ENAME)

10

1 rows returned in 0.00 seconds

select instr(ename,'r') from empl where eid=1;

INSTR(ENAME,'R')

4

1 rows returned in 0.00 seconds

select lpad(sal,8,'\*') from empl where eid=1;

LPAD(SAL,8,'\*')

\*\*\*50000

1 rows returned in 0.00 seconds

select replace('swaranjali','r','p') from empl where eid=1;

REPLACE('SWARANJALI','R','P')

swapanjali

1 rows returned in 0.00 seconds

select trim('p' from 'priya') from empl where eid=7;

TRIM('P'FROM'PRIYA')

riya

1 rows returned in 0.00 seconds

**//Date Functions**

select sysdate from dual;

SYSDATE

08/23/2017

1 rows returned in 0.01 seconds

select months\_between('02-01-96','02-01-95') from dual;

MONTHS\_BETWEEN('02-01-96','02-01-95')

12

1 rows returned in 0.00 seconds

select add\_months('03-28-1997',2) from dual;

ADD\_MONTHS('03-28-1997',2)

05/28/1997

1 rows returned in 0.00 seconds

select next\_day('03-01-1997','friday') from dual;

NEXT\_DAY('03-01-1997','FRIDAY')

03/07/1997

1 rows returned in 0.00 seconds

select last\_day('03-01-1997') from dual;

LAST\_DAY('03-01-1997')

03/31/1997

1 rows returned in 0.00 seconds

**GROUP/Aggrigate Functions:**

select avg(sal) from empl;

AVG(SAL)

38333.3333333333333333333333333333333333

select min(sal) from empl;

MIN(SAL)

25000

select max(sal) from empl;

MAX(SAL)

55000

1 rows returned in 0.00 seconds

select min(sal),max(sal),avg(sal),sum(sal) from empl;

MIN(SAL) MAX(SAL) AVG(SAL) SUM(SAL)

25000 55000 38333.3333333333333333333333333333333333 345000

1 rows returned in 0.00 seconds

select count(\*) from empl;

COUNT(\*)

9

select did,avg(sal) from empl group by did;

DID AVG(SAL)

30 45000

20 38333.3333333333333333333333333333333333

40 27500

10 42500

select did,avg(sal) from empl group by did having avg(sal)<35000;

DID AVG(SAL)

40 27500

**SET Operators:**

**//UNION**

select did from empl union select did from dept;

DID

10

20

30

40

4 rows returned in 0.00 seconds

**//INTERSECT**

select did from empl where eid in(1,3,5) intersect select did from dept;

DID

10

40

2 rows returned in 0.00 seconds

**//MINUS**

select locid from location minus select locid from dept;

LOCID

105

1 rows returned in 0.01 seconds