Practical-2

- **Aim: To perform various select operation.**

Create the following tables and insert the data as following.

Employee

Emp_no	Emp_name	Emp_sal	Emp_comm	Dept_no
101	Smith	800		20
102	Snehal	1600	300	25
103	Adama	1100	0	20
104	Aman	3000		15
105	Anita	5000	5000	10
106	Sneha	2450	24500	10
107	Anamika	2975		30

Job

Job_id	Job_title	Min_sal	Max_sal
IT_PROG	Programmer	4000	10000
MK_MGR	Marketing manager	9000	15000
FL_MGR	Finance manager	8200	12000
FL_ACC	Account	4200	9000
LEC	Lecturer	6000	17000
COMP_OP	Computer Operator	1500	3000

Deposit

A_no	C_name	bname	Amount	Date
101	Anil	Andheri	7000	01-jan-06
102	Sunil	Virar	5000	05-jul-06
103	Jay	Villeparle	6500	12-mar-06
104	Vijay	Andheri	8000	17-sep-06
105	Keyur	Dadar	7500	19-nov-06
106	Mayur	Borivali	5500	21-dec-06

Practical_2.sql

```
Create table Job(job_id Varchar2(15),job_title Varchar2(30),min_sal Number(7,2),max_sal
Number(7,2));

Create table Employee(emp_no Number(3),emp_name Varchar2(30),emp_sal
Number(8,2),emp_comm Number(6,1),dept_no Number(3));

create table deposit1(a_no varchar2(5),cname varchar2(15),bname varchar2(10),amount
number(7,2),a_date date);

create table borrow1(loanno varchar2(5),cname varchar2(15),bname varchar2(10),amount
varchar2(7));

commit;

insert into employee values(101,'Smith',800,null,20);
insert into employee values(102,'Snehal',1600,300,25);
insert into employee values(103,'Adama',1100,0,20);
insert into employee values(104,'Aman',3000,null,15);
insert into employee values(105,'Anita',5000,50000,10);
insert into employee values(106,'Sneha',2450,24500,10);
insert into employee values(107,'Anamika',2975,null,30);

insert into job values('IT_PROG','Programmer',4000,10000);
insert into job values('MK_MGR','Marketing manager',9000,15000);
insert into job values('FI_MGR','Finance manager',8200,12000);
insert into job values('FI_ACC','Account',4200,9000);
insert into job values('LEC','Lecturer',6000,17000);
insert into job values('COMP_OP','Computer Operator',1500,3000);

insert into deposit1 values(101,'Anil','andheri',7000,'01-jan-2006');
insert into deposit1 values(102,'sunil','virar',5000,'15-jul-2006');
insert into deposit1 values(103,'jay','villeparle',6500,'12-mar-2006');
insert into deposit1 values(104,'vijay','andheri',8000,'17-sep-2006');
insert into deposit1 values(105,'keyur','dadar',7500,'19-nov-2006');
insert into deposit1 values(106,'mayur','borivali',5500,'21-dec-2006');
```

Output:

```
SQL*Plus: Release 11.2.0.2.0 Production on Wed Aug 11 19:09:20 2021

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SQL> connect system
Enter password:
Connected.
SQL> @ D:/DBMS/PRACTICAL2.sql;

Table created.


Table created.


Table created.


Table created.


Commit complete.


1 row created.


1 row created.


1 row created.


1 row created.


1 row created.


1 row created.


1 row created.
```

From the above given tables perform the following queries:

1. Retrive all data from employee,job,deposit.

Run SQL Command Line

```
SQL> select * from employee;

    EMP_NO EMP_NAME                       EMP_SAL   EMP_COMM    DEPT_NO
---------- ------------------------------ ---------- ---------- ----------
       101 Smith                             800                    20
       102 Snehal                           1600        300         25
       103 Adama                            1100          0         20
       104 Aman                             3000                    15
       105 Anita                            5000      50000         10
       106 Sneha                            2450      24500         10
       107 Anamika                          2975                    30

7 rows selected.
```

```
SQL> select * from job;

JOB_ID          JOB_TITLE                          MIN_SAL    MAX_SAL
--------------- ------------------------------ ---------- ----------
IT_PROG         Programmer                           4000      10000
MK_MGR          Marketing manager                    9000      15000
FI_MGR          Finance manager                      8200      12000
FI_ACC          Account                              4200       9000
LEC             Lecturer                             6000      17000
COMP_OP         Computer Operator                    1500       3000

6 rows selected.
```

```
SQL> select * from deposit;

ACTNO CNAME                BNAME                    AMOUNT ADATE
----- -------------------- -------------------- ---------- ---------
101   Anil                 andheri                    7000 01-JAN-06
102   sunil                virar                      5000 15-JUL-06
103   jay                  villeparle                 6500 12-MAR-06
104   vijay                andheri                    8000 17-SEP-06
105   keyur                dadar                      7500 19-NOV-06
106   mayur                borivali                   5500 21-DEC-06

6 rows selected.
```

2. Give details of account no. and deposited rupees of customers having account opened between dates 01-01-06 and 25-07-06.

```
SQL> select ACTNO,AMOUNT from deposit where adate between '01-jan-06' and '25-july-06';

ACTNO     AMOUNT
----- ----------
101         7000
102         5000
103         6500
```

3. Display all jobs with minimum salary is greater than 4000.

```
Run SQL Command Line
no rows selected

SQL> select * from job where MIN_SAL>4000;

JOB_ID          JOB_TITLE                          MIN_SAL    MAX_SAL
--------------- ------------------------------ ---------- ----------
MK_MGR          Marketing manager                    9000      15000
FI_MGR          Finance manager                      8200      12000
FI_ACC          Account                              4200       9000
LEC             Lecturer                             6000      17000

SQL>
```

4. Display name and salary of employee whose department no is 20.Give alias name to name of employee.

Run SQL Command Line

```
SQL>
SQL>
SQL> SELECT EMP_NAME"name of employee",EMP_SAL from employee where DEPT_NO=20;

name of employee                EMP_SAL
------------------------------ ----------
Smith                                 800
Adama                                1100

SQL>
```

5. Display employee no,name and department details of those employee whose departmentlies in(10,20)

Run SQL Command Line

```
SQL> select EMP_NO,EMP_NAME,DEPT_NO from employee where DEPT_NO between 10 and 20;

    EMP_NO EMP_NAME                       DEPT_NO
---------- ------------------------------ ----------
       101 Smith                                20
       103 Adama                                20
       104 Aman                                 15
       105 Anita                                10
       106 Sneha                                10

SQL>
```

PEN:200840131012

To study various options of LIKE predicates.

1. Display all employee whose name start with ‘A’ and third character is ‘a’.

Run SQL Command Line

```
SQL> select * from employee where EMP_NAME LIKE 'A_a%';

    EMP_NO EMP_NAME                       EMP_SAL   EMP_COMM    DEPT_NO
---------- ------------------------------ ---------- ---------- ----------
       103 Adama                            1100          0         20
       104 Aman                             3000                    15
       107 Anamika                          2975                    30

SQL>
```

2. Display name,number and salary of those employee whose name is 5 character long and first three characters are ‘Ani’.

Run SQL Command Line

```
SQL>  select EMP_NAME,EMP_NO,EMP_SAL from employee where EMP_NAME LIKE 'Ani__';

EMP_NAME                       EMP_NO    EMP_SAL
------------------------------ ---------- ----------
Anita                             105       5000

SQL>
```

3. Display the non-null values of employee and also employee name second character should be ‘n’ and string should be 5 character long.

Run SQL Command Line

```
Anita                             105       5000

SQL> select * from employee where EMP_NAME LIKE '_n___';

    EMP_NO EMP_NAME                       EMP_SAL   EMP_COMM    DEPT_NO
---------- ------------------------------ ---------- ---------- ----------
       105 Anita                            5000      50000         10
       106 Sneha                            2450      24500         10

SQL>
```

4. Display the null values of employee and also employee name’s third character should be‘a’.

Run SQL Command Line

```
SQL> select * from employee where EMP_NAME LIKE '__a%' and EMP_COMM IS NULL;

    EMP_NO EMP_NAME                       EMP_SAL   EMP_COMM    DEPT_NO
---------- ------------------------------ ---------- ---------- ----------
       104 Aman                             3000                    15
       107 Anamika                          2975                    30

SQL>
```

5. What will be output if you are giving LIKE predicates as '%_%' ESCAPE '\'.