Ex.No.: 2		DATA MANIPULATIONS
Date:		

Create the following tables with the given structure.

EMPLOYEES TABLE

NAME	NULL?	TYPE
Employee_id	Not null	Number(6)
First_Name		Varchar(20)
Last_Name	Not null	Varchar(25)
Email	Not null	Varchar(25)
Phone_Number		Varchar(20)
Hire_date	Not null	Date
Job_id	Not null	Varchar(10)
Salary		Number(8,2)
Commission_pct		Number(2,2)
Manager_id		Number(6)
Department_id		Number(4)

(a) Find out the employee id, names, salaries of all the employees

SELECT Employee_id, First_Name, Last_Name, Salary
FROM EMPLOYEES;

(b) List out the employees who works under manager 100

SELECT * FROM EMPLOYEES
WHERE MANAGER_ID = 100;

(c) Find the names of the employees who have a salary greater than or equal to 4800

SELECT First_Name, Last_Name
FROM EMPLOYEES
WHERE Salary >= 4800;

(d) List out the employees whose last name is 'AUSTIN'

```
SELECT * FROM EMPLOYEES
WHERE Last-Name = 'AUSTIN';
```

(e) Find the names of the employees who works in departments 60,70 and 80

```
SELECT FIRST-NAME, Last-Name FROM EMPLOYEES
WHERE Department-id IN (60, 70, 80);
```

(f) Display the unique Manager_Id.

```
SELECT DINTINCT Manager-id
FROM EMPLOYEES;
```

Create an Emp table with the following fields: (EmpNo, EmpName, Job,Basic, DA, HRA,PF, GrossPay, NetPay) (Calculate DA as 30% of Basic and HRA as 40% of Basic)

```
CREATE TABLE Emp (
        EMPNo NUMBER (6) NOT NULL,
        EmpName Varchar (50);
        Job Varchar (30),
        Basic Number (8,2), DA Number (8,2),
        HRA Number (8,2), PF Number(8,2), GrossPay Number(8,2),
        NetPay Number(8,2), PRIMARY KEY
                                    (Emp No))
```

(a) Insert Five Records and calculate GrossPay and NetPay.

(b) Display the employees whose Basic is lowest in each department.

```
SELECT * FROM Emp e1
WHERE Basic = (select MIN (Basic)
FROM Emp e2 WHERE
    e1. Department-id = e2.Department-id);
```

(c) If Net Pay is less than

```
SELECT * FROM Emp
WHERE NetPay < 2000;
```

DEPARTMENT TABLE

NAME	NULL?	TYPE
Dept_id	Not null	Number(6)
Dept_name	Not null	Varchar(20)
Manager_id		Number(6)
Location_id		Number(4)

JOB_GRADE TABLE

NAME	NULL?	TYPE
Grade_level		Varchar(2)
Lowest_sal		Number
Highest_sal		Number

LOCATION TABLE

NAME	NULL?	TYPE
Location_id	Not null	Number(4)
St_addr		Varchar(40)
Postal_code		Varchar(12)
City	Not null	Varchar(30)
State_province		Varchar(25)
Country_id		Char(2)

1. Create the DEPT table based on the DEPARTMENT following the table instance chart below. Confirm that the table is created.

Column name	ID	NAME
Key Type		
Nulls/Unique		
FK table		
FK column		
Data Type	Number	Varchar2
Length	7	25

CREATE TABLE Dept AS SELECT Dept_id, Dept_name FROM Department

2. Create the EMP table based on the following instance chart. Confirm that the table is created.

Column name	ID	LAST_NAME	FIRST_NAME	DEPT_ID
Key Type				
Nulls/Unique				
FK table				
FK column				
Data Type	Number	Varchar2	Varchar2	Number
Length	7	25	25	7

CREATE TABLE EMP (ID number(7), Last_Name Varchar2(25), First_Name Varchar2(25), DEPT_ID Number(7));

3 Modify the EMP table to allow for longer employee last names. Confirm the modification.(Hint: Increase the size to 50)

ALTER TABLE EMP modify LAST_NAME varchar2(50);

4 Create the EMPLOYEES2 table based on the structure of EMPLOYEES table. Include Only the Employee_id, First_name, Last_name, Salary and Dept_id coloumns. Name the columns Id, First_name, Last_name, salary and Dept_id respectively.

CREATE TABLE EMPLOYEES2 as select Employees as Id, FIRST_NAME, LAST_NAME, SALARY, DEPARTMENT_Id as dept_ID;

5 Drop the EMP table.

Drop Table Emp;

6 Rename the EMPLOYEES2 table as EMP.

Alter Table Employees2 Rename to Emp;

7 Add a comment on DEPT and EMP tables. Confirm the modification by describing the table.

Comment on table Emp is 'This show employees Details';
comment on table Dept is 'This show Department Details';
Select * from user_tab_comments;

8 Drop the First_name column from the EMP table and confirm it.

Alter Table Emp Drop coloumn First_name;

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	