Ex.No.: 2		DATA MANIPULATIONS
Date:	26/7/24	

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 Employee;
```

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

```
Select * from employee where Manager_id = 100;
```

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

```
Select * from employee where Salary >= 4800;
```

a) Insert 5 Records and calculate Gross Pay and Net Pay.

Ans: Insert into emp1 values (20001, 'John', 'Artist', 50000, 15000, 20000, 7000);

Insert into emp values (20002, 'Anjali', 'DJ', 70000, 21000, 28000, 8000);

Insert into emp values (20003, 'Azmaan', 'Artist', 85000, 25500, 34000, 9000);

Insert into emp values (20004, 'Mushkaan', 'Drummer', 90000, 27000, 36000, 10000);

Insert into emp values (20005, 'Rifa', 'DJ', 95000, 28500, 38000, 11000);

Adding Column Gross_Pay and net_pay

```
alter table emp add net_pay number(8);
alter table emp add gross_pay number(8);
```

Updating Gross_Pay

```
Update emp set gross_pay = (Select sum(Basic) + Sum(DA) + Sum(HRA) from
emp where empno = 20001) where empno = 20001;
Update emp set gross_pay = (Select sum(Basic) + sum(DA) + sum(HRA) from
emp where empno = 20002) where empno = 20002;
Update emp set gross_pay = (Select sum(Basic) + sum(DA) + sum(HRA) from
emp where empno = 20003) where empno = 20003;
Update emp set gross_pay = (Select sum(Basic) + sum(DA) + sum(HRA) from
emp where empno = 20004) where empno = 20004;
Update emp set gross_pay = (Select sum(Basic) + sum(DA) + sum(HRA) from
emp where empno = 20005) where empno = 20005;
```

Update net pay

```
Update emp set net_pay = (Select sum(Basic) + sum(DA) + sum(HRA) -
sum(PF) from emp where empno = 20001) from emp = 20001
Update emp set net_pay = (Select sum(Basic) + sum(DA) + sum(HRA) - sum(PF))
from emp where empno = 20002) from emp = 20002
update emp set net_pay = (Select sum(Basic) + sum(DA) + sum(HRA) - sum(PF)
from emp where empno = 20004) where empno = 20004;
update emp set net_pay = (Select sum(Basic) + sum(DA) + sum(HRA) - sum(PF)
from emp where empno = 20005) where empno = 20005;
```

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

```
Select * from emp where Last_name = 'Austin';
```

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

```
Select * from emp where DEPID IN (60, 70, 80);
```

(f) Display the unique Manager_Id.

```
Select DISTINCT Manager_Id from emp;
```

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(5), empname varchar(25), job varchar(25),
Basic number(7), DA number(5), HRA number(7), PF
number(5));
```

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

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

```
Select Job, min(Basic) as min_basic from emp group by JOB;
```

(c) If Net Pay is less than

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(ID number(7),

Name varchar(25));

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),
                   First_name varchar(25),
                   Last_name varchar(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 varchar(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 employees ( Empid number(4),
                         First_name varchar(20),
                         Last_name varchar(20),
                         Salary number(6,2),
                         Dept_id number(4) );
```

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 dept is "This department table";
comment on table emp is "This employee table";
select * from user_tab_comment;
```

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

```
Alter table employee drop column first_name;
commit;
```

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