Ex.No.: 2		DATA MANIPULATIONS
Date:	30/07/2024	

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 distinct 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 int, empname varchar(25),
job varchar(20), basic int, da int, hra int, pf varchar(15),
grosspay int, netpay int);
```

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

```
insert into emp values (101, 'surya', 'manager', 150000,0,0,0,0);
insert into emp values (102, 'sarwesh', 'developer', 75000,0,0,0,0);
insert into emp values (103, 'suryamu', 'coder', 100000,0,0,0,0);
insert into emp values (104, 'vijay', 'developer', 65000,0,0,0,0);
insert into emp values (105, 'vasanth', 'hr', 200000,0,0,0,0,0);
```

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

```
Set * from emp where basic in(select min(basic) as
basic from emp group by job);
```

(c) If Net Pay is less than

```
Select * from emp where netpay <150000;
```

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 Varchar2(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 empl (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 empl 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(id number(2), first_name varchar2(25), last_name varchar2(25), Salary number (8,2), dept_id number(4));

5 Drop the EMP table.

drop table empl;

6 Rename the EMPLOYEES2 table as EMP.

alter table employees2 rename to empl;

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

Comment on table dept is information of employee department'; comment on table empl is' information of employee details';

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

alter table empl drop column first_name;

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	4
Total (15)	14
Faculty Signature	