

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 Emp-id, "Firstname", "Lastname", salary from employees;

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

Select "Firstname", "Lastname" from employees where Manager_id = 100;

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

Select "Firstname", "Lastname" from employees where salary >= 4800;

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

Select "Firstname", "Lastname" from employees where "Lastname" = 'Austin';

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

Select "Firstname", "Lastname" from employees where Department_id = 60
or Department_id = 70 or Department_id = 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 number(6), Empname varchar(15), Job varchar(15),
Basic decimal(10,2), DA decimal(10,2), HRA decimal(10,2),
PF decimal(10,2), Grosspay decimal(10,2), Netpay decimal(10,2));

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

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

Alter table emp add department varchar(20);
select min (basic) as lowest from Emp group by department;

(c) If Net Pay is less than

Insert into Emp values (2301, 'Alice Johnson', 'Developer', 5000.00, null, null, null,
null, null);

Insert into Emp values (2302, 'Betty Jones', 'Team leader', 6000.00, null, null, null,
null, null);

Insert into Emp values (2303, 'Charlie Davis', 'Designer', 7000.00, null, null, null,
null, null);

Insert into Emp values (2304, 'Diana Evans', 'Analyst', 5500.00, null, null, null,
null, null);

Insert into Emp values (2305, 'Edward Lee', 'Support', 4500.00, null, null, null,
null, null);

Update Emp Set DA = $0.30 * \text{basic}$;

Update Emp Set HRA = $0.40 * \text{basic}$;

Update Emp Set PF = $0.12 * \text{basic}$;

Update Emp Set Grosspay = Basic + HRA + DA;

Update Emp Set Netpay = Grosspay - PF;



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 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 columns. Name the columns Id, First_name, Last_name, salary and Dept_id respectively.

create table employees2 (Employee_id number(4),
First_name varchar2(25), last_name varchar2(25),
Salary number(6,2), Dept_id number(4));

- 5 Drop the EMP table.

drop table emp;

- 6 Rename the EMPLOYEES2 table as EMP.

rename employees2 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_comments;

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

alter table emp drop column First_name;
Commit;

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