EXP NO:2 DATA MANIPULATIONS

KEERTHANA S

231901022

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) |

create table employees(employee_id number(6),First_Name varchar(20),Last_Name varchar(25),Email varchar(25),Phone_number varchar(20),hire_date date,Job_id varchar(10),Salary number(8,2),Commission_pct number(2,2),Manager_id number(6),Department_id number(4));

| Column Name | Data Type | Nullable | Default | Primary Key |
|----------------|--------------|----------|---------|-------------|
| EMPLOYEE_ID | NUMBER(6,0) | Yes | - | - |
| FIRST_NAME | VARCHAR2(20) | Yes | - | - |
| LAST_NAME | VARCHAR2(25) | Yes | - | - |
| EMAIL | VARCHAR2(25) | Yes | - | - |
| PHONE_NUMBER | VARCHAR2(20) | Yes | - | - |
| HIRE_DATE | DATE | Yes | - | - |
| JOB_ID | VARCHAR2(10) | Yes | - | - |
| SALARY | NUMBER(8,2) | Yes | - | - |
| COMMISSION_PCT | NUMBER(2,2) | Yes | - | - |
| MANAGER_ID | NUMBER(6,0) | Yes | - | - |
| DEPARTMENT_ID | NUMBER(4,0) | Yes | - | - |
| | | | | 1 - 11 |

Insert into employees

values(3,'Ralph','Patel','rpatel@gmail.com',9768403822,'11-12-2000',13,5000,.25,101,40);

Insert into employees

values(4,'George','Austin','geaustin@gmail.com',9573268191,'09-10-2018',14,6000,.3,103,60);

Insert into employees values

(1,'Ben','Chad','bchad@gmail.com',9493836325,'24-07-2022',11,4500,.15,100,70);

Insert into employees values

(2, 'Bety', 'Dancs', 'bdancs@gmail.com', 9763467298, '19-05-2021', 12, 4800, .17, 100, 56);

Insert into employees values

(5, 'Audrey', 'Austin', 'audaustin@gmail.com', 9684357377, '06-05-2017', 15,7000, .35,104,80);

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
|-------------|------------|-----------|---------------------|--------------|------------|--------|--------|----------------|------------|---------------|
| 3 | Ralph | Patel | rpatel@gmail.com | 768403822 | 11/12/2000 | 13 | 5000 | .25 | 101 | 40 |
| 4 | George | Austin | geaustin@gmail.com | 9573268191 | 09/10/2018 | 14 | 6000 | .3 | 103 | 60 |
| 1 | Ben | Chad | bchad@gmail.com | 9493836325 | 04/07/2022 | 11 | 4500 | .15 | 100 | 70 |
| 2 | Bety | Dancs | bdancs@gmail.com | 9763467298 | 09/05/2021 | 12 | 4800 | .17 | 100 | 56 |
| 5 | Audrey | Austin | audaustin@gmail.com | 9684357377 | 06/05/2017 | 15 | 7000 | .35 | 104 | 80 |

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

select employee_id,first_name,last_name,salary from employees;

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | SALARY |
|-------------|------------|-----------|--------|
| 3 | Ralph | Patel | 5000 |
| 4 | George | Austin | 6000 |
| 1 | Ben | Chad | 4500 |
| 2 | Bety | Dancs | 4800 |
| 5 | Audrey | Austin | 7000 |

(b) List out the employees who works under manager 100 select *from employees where manager_id=100;

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
|-------------|------------|-----------|------------------|--------------|------------|--------|--------|----------------|------------|---------------|
| 1 | Ben | Chad | bchad@gmail.com | 9493836325 | 04/07/2022 | 11 | 4500 | .15 | 100 | 70 |
| 2 | Bety | Dancs | bdancs@gmail.com | 9763467298 | 09/05/2021 | 12 | 4800 | .17 | 100 | 56 |

(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;

| FIRST_NAME | LAST_NAME |
|------------|-----------|
| Ralph | Patel |
| George | Austin |
| Bety | Dancs |
| Audrey | Austin |

(d) List out the employees whose last name is _AUSTIN' select *from employees where last_name ='Austin';

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
|-------------|------------|-----------|---------------------|--------------|------------|--------|--------|----------------|------------|---------------|
| 4 | George | Austin | geaustin@gmail.com | 9573268191 | 09/10/2018 | 14 | 6000 | .3 | 103 | 60 |
| 5 | Audrey | Austin | audaustin@gmail.com | 9684357377 | 06/05/2017 | 15 | 7000 | .35 | 104 | 80 |

(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=60 or department_id=70 or department_id=80;

| FIRST_NAME | LAST_NAME |
|------------|-----------|
| George | Austin |
| Ben | Chad |
| Audrey | Austin |

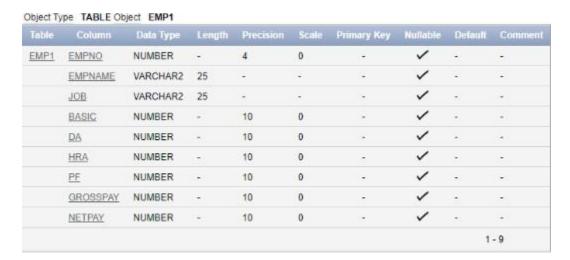
(f) Display the unique Manager_Id.
select distinct manager_id from employees;

| MANAGER_ID |
|------------|
| 100 |
| 101 |
| 104 |
| 103 |

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 emp1(empno number(4),empname varchar(25),job varchar(25),basic number(10),da

number(10), hra number(10), pf number(10), grosspay number(10), netpay number(10));



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

insert into emp1 values(1,'betty','manager',7000,2100,2800,1000,10,20);

insert into emp1

values(2,'annnie','secretary',5000,1500,2000,1500,20,30);

insert into emp1

values(3,'ralph','technician',8000,2400,3200,2000,30,40);

insert into emp1 values(4,'linda','assistant',4000,1200,1600,1200,40,50);

insert into emp1 values(5,'becky','manager',9000,2700,3600,2500,50,60);



update emp1
set grosspay=basic+da+hra+pf;

set netpay=basic-pf;

| EMPNO | EMPNAME | JOB | BASIC | DA | HRA | PF | GROSSPAY | NETPAY |
|-------|---------|------------|-------|------|------|------|----------|--------|
| 1 | betty | manager | 7000 | 2100 | 2800 | 1000 | 12900 | 6000 |
| 2 | annnie | secretary | 5000 | 1500 | 2000 | 1500 | 10000 | 3500 |
| | ralph | technician | 8000 | 2400 | 3200 | 2000 | 15600 | 6000 |
| | linda | assistant | 4000 | 1200 | 1600 | 1200 | 8000 | 2800 |
| 5 | becky | manager | 9000 | 2700 | 3600 | 2500 | 17800 | 6500 |

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

select * from emp1

where basic=(select min(basic) from emp1);



(c) If Net Pay is less than

select * from emp1

where netpay=(select min(netpay)from emp1);

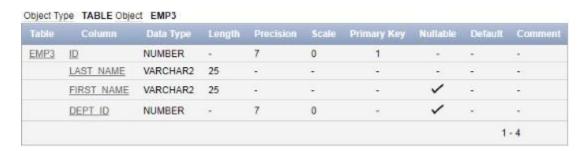


2. Create the EMP table based on the following instance chart. Confirm that the table is created.

| 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 emp3(id number(7) primary key not null,last_name varchar2(25) not null,first_name

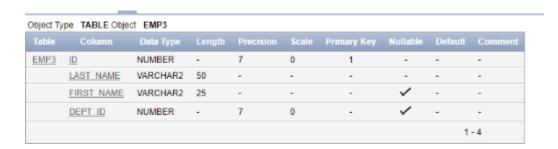
varchar2(25),dept_id number(7));



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

alter table emp3

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(employee_id number(4),first_name varchar(25),last_name varchar(20),salary

number(10),dept_id varchar(5));



5 Drop the EMP table.

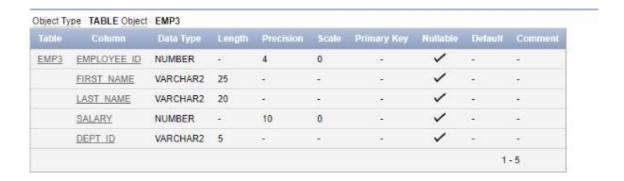
drop table emp3;

Table dropped.

0.38 seconds

6 Rename the EMPLOYEES2 table as EMP.

alter table employees2 rename to emp3;



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

alter table emp3

drop column first_name;

