ABHINAYA S 230701004

EXP: 1

DATA MANIPULATIONS

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	-	7.2
FIRST_NAME	VARCHAR2(20)	Yes	- <u>#</u> .	-
LAST_NAME	VARCHAR2(25)	Yes	-) -
EMAIL	VARCHAR2(25)	Yes	7.0	-
PHONE_NUMBER	VARCHAR2(20)	Yes	+	-
HIRE_DATE	DATE	Yes	20	72
JOB_ID	VARCHAR2(10)	Yes	-	-
SALARY	NUMBER(8,2)	Yes	- 1	(-
COMMISSION_PCT	NUMBER(2,2)	Yes	-	-
MANAGER_ID	NUMBER(6,0)	Yes	-	
DEPARTMENT_ID	NUMBER(4,0)	Yes		72
				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));

Table	Column	Data Type	Length	Precision		Primary Key	Nullable	Default	Comment
EMP1	<u>EMPNO</u>	NUMBER	-	4	0	-	/	-	
	EMPNAME	VARCHAR2	25	-	-	-	/	-	-
	JOB	VARCHAR2	25		-	-	/		-
	BASIC	NUMBER		10	0	-	/		-
	DA	NUMBER	-	10	0	-	/	-	
	HRA	NUMBER	-	10	0	-	/	-	-
	PF	NUMBER	-	10	0	-	/	253	875
	GROSSPAY	NUMBER	-	10	0	-	~	-	2
	NETPAY	NUMBER	-	10	0	-	/	-	-
								1	- 9

(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);

MPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
	betty	manager	7000	2100	2800	1000	10	20
	annnie	secretary	5000	1500	2000	1500	20	30
	ralph	technician	8000	2400	3200	2000	30	40
	linda	assistant	4000	1200	1600	1200	40	50
	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
3	ralph	technician	8000	2400	3200	2000	15600	6000
4	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);

4	linda	assistant	4000	1200	1600	1200	8000	2800
EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPA

(c) If Net Pay is less than

select * from emp1

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

4	linda	assistant	4000	1200	1600	1200	8000	2800
EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPA

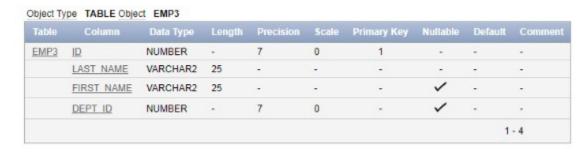
1 rows returned in 0.00 seconds <u>Download</u>

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
Кеу Туре		10	21	
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

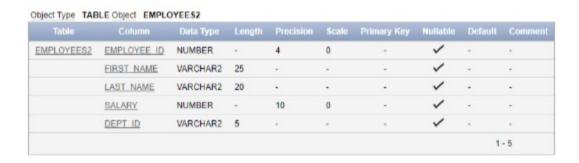
modify last name varchar2(50);



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.

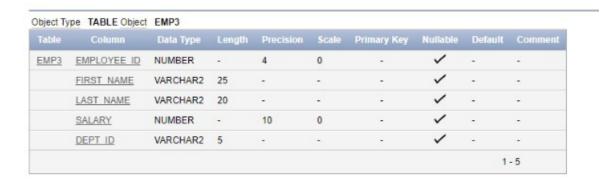
drop table emp3;

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;

Table	Column	Data Type	Length	Precision		Primary Key	Nullable	Default	Comment
EMP3	EMPLOYEE ID	NUMBER		4	0	-	~		-
	LAST NAME	VARCHAR2	20		-	-	~	-	-
	SALARY	NUMBER	-	10	0	-	/	-0	-
	DEPT ID	VARCHAR2	5		(. .)	-	/	-	-