NAME: Aravindan S G REG NO: 230701031

EXP NO:2

DATA MANIPULATION

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	2	Varchar(20)
Hire_date	Not null	Date
Job_id	Not null	Varchar(10)
Salary	10	Number(8,2)
Commission_pct	á.	Number(2,2)
Manager_id	2	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	12 	
LAST_NAME	VARCHAR2(25)	Yes	÷ 1	-
EMAIL	VARCHAR2(25)	Yes		-
PHONE_NUMBER	VARCHAR2(20)	Yes	-	2
HIRE_DATE	DATE	Yes	-	-
JOB_ID	VARCHAR2(10)	Yes	7	-
SALARY	NUMBER(8,2)	Yes	-	-
COMMISSION_PCT	NUMBER(2,2)	Yes	æ	-
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

(a) 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

(b) 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

(a) 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

(b) 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

(c) Display the unique Manager_ld.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));

lable	Column	Data Type	Length	Precision		Primary Key	Nullable	Default	Comment
MP1	EMPNO	NUMBER		4	0	(*	/	-:	*
	EMPNAME	VARCHAR2	25	12	ূ		~	25	-
	JOB	VARCHAR2	25	,			/		+
	BASIC	NUMBER		10	0		/		
	DA	NUMBER		10	0	*	/	+	(4)
	HRA	NUMBER		10	0	.5	/	8	(5)
	PF	NUMBER		10	0		/	8	
	GROSSPAY	NUMBER	-	10	0		/	2.	
	NETPAY	NUMBER		10	0	-	/	-	+

(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);

Results	Explain Des	cribe Saved	SQL Hi	story				
EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
1	betty	manager	7000	2100	2800	1000	10	20
2	annnie	secretary	5000	1500	2000	1500	20	30
3	ralph	technician	8000	2400	3200	2000	30	40
4	linda	assistant	4000	1200	1600	1200	40	50
5	becky	manager	9000	2700	3600	2500	50	60

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

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);



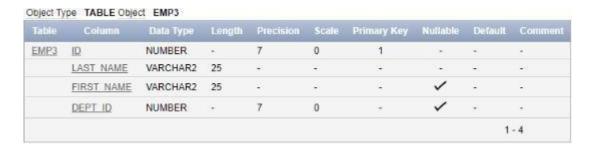
(c) If Net Pay is less than select * from emp1 where netpay=(select min(netpay)from emp1);



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

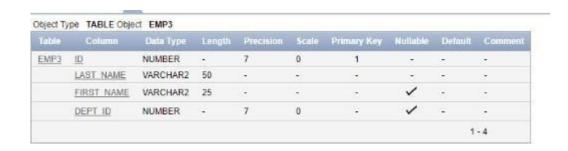
Column name	ID	LAST_NAME	FIRST_NAME	DEPT_ID	
Кеу Туре					
Nulls/Unique					
FK table					
FK column					
Data Type Number		Varchar2	Varchar2	Number 7	
Length 7		25	25		

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;

Object Ty	pe TABLE Object	EMP3							
Table	Column	Data Type	Length	Precision	5cale	Primary Key	Nullable	Default	Comment
E L	EMPLOYEE ID	NUMBER	25	4	0	1.	/	4	16 i
	FIRST NAME	VARCHAR2	25		÷.		/	+	+
	LAST NAME	VARCHAR2	20		-	15	/	-	7.
	SALARY	NUMBER	21	10	0	52	/	(4)	92.0
	DEPT ID	VARCHAR2	5	-	-	11	/	*	a.e.
								1	- 5

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

alter table emp3 drop column

first_name;

