

## 02.DATA MANIPULATIONS

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**Create the following table with the given structure.**

create table employee (employee number (6) not null, first\_name varchar (20), last\_name varchar (25) not null, email varchar (25) not null, phone\_number varchar (20), hire\_date date not null, job\_id varchar (10) not null, salary number (8,2), commission\_pct number (2,2), manager\_id number (6), department\_id number(4)); **Output:** Table created.

**a) Find out the employee id, name, salaries of all the employees** Select employee\_id, first\_name, last\_name, salary from employee; **Output:**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY
101	shamrudha	varshini	100000
102	prathika	priya	99000
103	lokeshwari	d	99000
104	jack	austin	4000
105	rithu	priya	100000

**b) List out the employee who works under manger 100.**

Select \*from employee where manager\_id='100'.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
101	shamrudha	varshini	psv@gmail.com	xxxxx	09/05/200 0/14/200	abcd	100000	.5	100	60
102	prathika	priya	prathika@gmail.com	yyyyy	5	abcde	99000	.55	100	70

**c) Find the names of the employees who have a salary greater than or equal to 4800.** Select \*from employee where salary>='4800'; **Output:**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
101	shamrudha	varshini	psv@gmail.com	xxxxx	10/14/200	abcd	100000	.5	100	60
102	prathika	priya	prathika@gmail.com	yyyyy	5 09/05/200 5 11/15/200 5 11/28/200	abcde	99000	.55	100	70
103	lokeshwari	d	ld@gmail.com	zzzzz		pqrs	99000	.51	101	80
105	rithu	priya	rp@gmail.com	aaaaa	abdc 5		100000	.5	50	50

**d) List out the employee whose last name is ‘austin’** Select \*from employee where last\_name='austin'; **Output:**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
104	jack	austin	ja@gmail.com	qqqqq	10/05/200 5	pqrs	4000	.21	50	50

**e) Find the names of the employees who work in departments 60, 70, and 80.**

Select \*from employee where department\_id='60' or department\_id='70' or department\_id='80'; **Output:**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
101	shamrudha	varshini	psv@gmail.com	xxxxx	5 09/05/200 0/14/200	abcd	100000	.5	100	60
102	prathika	priya	prathika@gmail.com	yyyyy	5 11/15/200	abcde	99000	.55	100	70
103	lokeshwari	d	ld@gmail.com	zzzzz	pqr 5		99000	.51	101	80

f) Display the unique manager\_id Select distinct manager\_id from employee; Output:

MANAGER_ID
100
101
50

Create an Emp table with following fields: (Emp No, Emp Name, Job, Basic, DA, HRA, PF, Gross Pay, Net pay)(Calculate DA as 30% of Basic and HRA as 40% of Basic).

```
create table empy (empno number (4), empname varchar (25), job varchar (50), basic number (10,2), DA
number (10,2) as (basic*0.30), HRA number (10,2) as (basic*0.40), PF number (10,2), grosspay number
(10,2), Netpay number (10,2));
```

a) Insert five records and calculate Grosspay and Netpay.

Output:

```
insert into empy (empno, empname, job, basic, PF) values (101,'jessy', 'manager',100000,1000); insert into
empy (empno, empname, job, basic, PF) values (102,'john', 'assistant team leader',85000,1000); insert into
empy (empno, empname, job, basic, PF) values (103,'lisa', 'developer',82000,1000); insert into empy (empno,
empname, job, basic, PF) values (104,'jisoo','team leader', 90000,1000); insert into empy (empno, empname,
job, basic, PF) values (105,'kim Tae', 'assistant manager',95000,1000);
```

EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
101	jessy	manager	100000	30000	40000	1000	-	-
102	john	assistant team leader	85000	25500	34000	1000	-	-
103	Lisa	developer	82000	24600	32800	1000	-	-
104	jisoo	team leader	90000	27000	36000	1000	-	-
105	kim Tae	assistant manager	95000	28500	38000	1000	-	-

```
update empy set grosspay=basic+DA+HRA 5 row (s)
```

updated.

```
update empy set Netpay=basic-PF;
```

5 row(s) updated.

**b) Display the employee whose Basic is lower in each department.**

select \* from emp where basic = (select min (basic) from emp);

EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
101	jessy	manager	100000	30000	40000	1000	170000	99000
102	john	assistant team leader	85000	25500	34000	1000	144500	84000
103	Lisa	developer	82000	24600	32800	1000	139400	81000
104	jisoo	team leader	90000	27000	36000	1000	153000	89000
105	kim Tae	assistant manager	95000	28500	38000	1000	161500	94000

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

EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
103	Lisa	developer	82000	24600	32800	1000	139400	81000

**1)Create the DEPT table based on the DEPARTMENT following the table instance chart below. Confirm that the table is created.**

create table dept (id number (7) primary key not null, Name varchar (25));

**Output:**

Dept

  id                          Name

**2)Created the EMP table based on the following instance chart. Confirm that the table is created. create table emp (id number (7) primary key, last\_name varchar (25) not null, first\_name varchar (25), dept\_id number (7)); **Output:****

Table created.

Column Name	Data Type	Nullable	Default	Primary Key
ID	NUMBER (7,0)	No	-	1
LAST_NAME	VARCHAR2(25)	No	-	-
FIRST_NAME	VARCHAR2(25)	Yes	-	-
DEPT_ID	NUMBER (7,0)	Yes	-	-

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

**Output:**

alter table emp modify last\_name varchar(50);

Table altered.

Column Name	Data Type	Nullable	Default	Primary Key
ID	NUMBER(7,0)	No	-	1

LAST_NAME	VARCHAR2(50)	No	-	-
FIRST_NAME	VARCHAR2(25)	Yes	-	-
DEPT_ID	NUMBER(7,0)	Yes	-	-

4)create the employees2 table based in the structure of the 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.

**Output:**

```
create table employee2(id number(7),first_name varchar(25),last_name varchar(25),salary number(10),dept_id number(5));
```

Table created.

Column Name	Data Type	Nullable	Default	Primary Key
ID	NUMBER (7,0)	Yes	-	-
FIRST_NAME	VARCHAR2(25)	Yes	-	-
LAST_NAME	VARCHAR2(25)	Yes	-	-
SALARY	NUMBER (10,0)	Yes	-	-
DEPT_ID	NUMBER (5,0)	Yes	-	-

5)Drop the EMP table. drop

table emp; **Output:**

Table dropped.

6)Rename the EMPLOYEES2 table as EMP. alter table

employee2 rename to emp; **output:**

Table altered.

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

comment on table dept is 'this is to store dept info'.

**Output:**

Statement processed.

comment on table emp is 'this is to store emp info'.

**Output:**

Statement processed.

8)Drop the first\_name column from the EMP table and confirm it.

alter table emp drop column first\_name **Output:**

Table altered.

Column Name	Data Type	Nullable	Default	Primary Key
ID	NUMBER (7,0)	Yes	-	-
LAST_NAME	VARCHAR2(25)	Yes	-	-

SALARY	NUMBER (10,0)	Yes	-	-
DEPT_ID	NUMBER (5,0)	Yes	-	-