-----------------------------------Assignment 03-----------------------------------

1) Create table department with fields deptno, dname, location.

command:-

create table Department_1
(
    deptno int primary key,
    dname varchar(10),
    location varchar(10)
);

Result:-
Table created.
0.04 seconds
_____
2]Insert the following records by using any one method

deptno   dname   Location
10   Accounting   mumbai
20   Research   pune
30   Sales   Nashik
40   Operations   Nagpur

command:- By running them individually

insert into Department values (10,'Accounting','Mumbai');
insert into Department values (20,'Research','Pune');
insert into Department values (30,'Sales','Nashik');
insert into Department values (40,'Operations','Nagpur');

Result:-
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.

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3] List the department information

command:- select * from Department;

Result:-

DEPTNO	DNAME	LOCATION
10	Accounting	Mumbai
20	Research	Pune
30	Sales	Nashik
40	Operations	Nagpur

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4] Create table employee as shown below:-

EMPNO	ENAME	JOB	MGR	JOINED_DATE	SALARY	COMMISION	DEPT	ADDRESS
1001	nilesh joshi	clerk	1005	12-17-1995	2800	600	20	nashik
1002	avinash pawar	salesman	1003	02-20-1996	5000	1200	30	nagpur
1003	amit kumar	manager	1004	04-02-1986	2000	0	30	pune
1004	nitin kulkarni	president	0	04-19-1986	50000	0	10	mumbai
1005	niraj sharma	analyst	1003	12-03-1998	12000	0	20	satara
1006	pushkar deshpande	salesman	1003	09-01-1996	6500	1500	30	pune
1007	sumit patil	manager	1004	05-01-1991	25000	0	20	mumbai
1008	ravi sawant	analyst	1007	10-17-1995	10000	0	0	amaravati

command:-

create table employee
(
    empno int primary key,
    ename varchar(20),
    job varchar(20),
    mgr int,
    joined_date date,
    salary int,
    commision int,
    deptno int references department (deptno),
    address varchar(20)
);

Insering records

insert into employee values
(1001,'nilesh joshi', 'clerk',1005,'12-17-1995',2800,600,20,'nashik');

insert into employee values
(1002,'avinash pawar','salesman',1003,'02-20-1996',5000,1200,40,'nagpur');

insert into employee values
(1003,'amit kumar','manager',1004,'04-02-1986',2000,0,30,'pune');

insert into employee values
(1004,'nitin kulkarni','president',0,'04-19-1986',50000,0,10,'mumbai');

insert into employee values
(1005,'niraj sharma','analyst',1003,'12-03-1998',12000,0,20,'satara');

insert into employee values
(1006,'pushkar deshpande','salesman',1003,'09-01-1996',6500,1500,30,'pune');

insert into employee values
(1007,'sumit patil','manager',1004,'05-01-1991',25000,0,20,'mumbai');

insert into employee values
(1008,'ravi sawant','analyst',1007,'10-17-1995',10000,0,0,'amaravati');

Result:-
Table created.
1 row(s) inserted   (x8)
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5] Write a query to display employee information, write a name of column explicitly

command:-select * from employee;
Result:-

EMPNO	ENAME	JOB	MGR	JOINED_DATE	SALARY	COMMISION	DEPT	ADDRESS
1001	nilesh joshi	clerk	1005	12-17-1995	2800	600	20	nashik
1002	avinash pawar	salesman	1003	02-20-1996	5000	1200	30	nagpur
1003	amit kumar	manager	1004	04-02-1986	2000	0	30	pune
1004	nitin kulkarni	president	0	04-19-1986	50000	0	10	mumbai
1005	niraj sharma	analyst	1003	12-03-1998	12000	0	20	satara
1006	pushkar deshpande	salesman	1003	09-01-1996	6500	1500	30	pune
1007	sumit patil	manager	1004	05-01-1991	25000	0	20	mumbai
1008	ravi sawant	analyst	1007	10-17-1995	10000	0	0	amaravati

command:-
select * from employee where empno=1001;

Result:-

EMPNO	ENAME	JOB	MGR	JOINED_DATE	SALARY		COMMISION	DEPT	ADDRESS
1001	nilesh joshi	clerk	1005	12-17-1995	2800	600	20		nashik

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6] create a query to display unique jobs

command:-
select distinct job from employee;

Result:-

JOB
clerk
salesman
manager
analyst
president

_____
7] Change the location of dept 40 to banglore instead of nagpur (in department table)

command:-
update department set address='bangalore' where dept=40;

Result:-

DEPTNO	DNAME	LOCATION
10	Accounting	Mumbai
20	Research	Pune
30	Sales	Nashik
40	Operations	bangalore

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8] Change the name of the employee 1003 to Nikhil Gosavi.

command:-update employee set ename='Nikhil Gosavi' where empno=1003;

Result:-

EMPNO	ENAME	JOB	MGR	JOINED_DATE	SALARY	COMMISION	DEPT	ADDRESS
1001	nilesh joshi	clerk	1005	12-17-1995	2800	600	20	nashik
1002	avinash pawar	salesman	1003	02-20-1996	5000	1200	30	nagpur
1003	Nikhil Gosavi	manager	1004	04-02-1986	2000	0	30	pune
1004	nitin kulkarni	president	0	04-19-1986	50000	0	10	mumbai
1005	niraj sharma	analyst	1003	12-03-1998	12000	0	20	satara
1006	pushkar deshpande	salesman	1003	09-01-1996	6500	1500	30	pune
1007	sumit patil	manager	1004	05-01-1991	25000	0	20	mumbai
1008	ravi sawant	analyst	1007	10-17-1995	10000	0	0	amaravati

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9] Delete Pushkar deshpande from employee table.

command:-delete from employee where ename='pushkar deshpande';

Result:-
1 row(s) deleted.
0.01 seconds

Command :- select * from employee;

EMPNO	ENAME	JOB	MGR	JOINED_DATE	SALARY	COMMISION	DEPT	ADDRESS
1001	nilesh joshi	clerk	1005	12-17-1995	2800	600	20	nashik
1002	avinash pawar	salesman	1003	02-20-1996	5000	1200	30	nagpur
1003	Nikhil Gosavi	manager	1004	04-02-1986	2000	0	30	pune
1004	nitin kulkarni	president	0	04-19-1986	50000	0	10	mumbai
1005	niraj sharma	analyst	1003	12-03-1998	12000	0	20	satara
1007	sumit patil	manager	1004	05-01-1991	25000	0	20	mumbai
1008	ravi sawant	analyst	1007	10-17-1995	10000	0	0	amaravati

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10] Create a table department temp table from department table,
     only create only the structure not the records

command:- create table department_temp as select * from employee where 1=2;
          desc department_temp;

result:-
Table created.
0.03 seconds

command:- desc department_temp ;

result:-

Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	
DEPTNO	NUMBER	22	-	0	-	nullable	-
DNAME	VARCHAR2	10	-	-	-	nullable	-
LOCATION	VARCHAR2	10	-	-	-	nullable	-

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11] Insert Rows into department_temp table from department table.

command:- create table department_temp as select * from department;

result:-
Table created.
0.06 seconds

command:- select * from department_temp;

result:-

DEPTNO	DNAME	LOCATION
10	Accounting	Mumbai
20	Research	Pune
30	Sales	Nashik
40	Operations	bangalore

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12] Display the list of employee whose salary betwenn 5000 and 20,000 .
command:-select ename,salary from employee where salary between 5000 and 20000;
result:-

ENAME   SALARY
avinash pawar   5000
pushkar deshpande   6500
ravi sawant   10000
niraj sharma   12000
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13] Display the list of employee excluding job title as 'salesman'

command:-
select ename,job from employee where not job = 'salesman';

result:-

ENAME   JOB
nilesh joshi   clerk
sumit patil   manager
ravi sawant   analyst
niraj sharma   analyst
Nikhil Gosavi   manager
nitin kulkarni president

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14] Display all those employees whose job title is either 'manager'
or 'analyst' (write by using OR & IN operator)

command:-select ename,job from employee where job = 'manager' or job='analyst';
result:-

ENAME   JOB
sumit patil   manager
ravi sawant   analyst
niraj sharma   analyst
Nikhil Gosavi   manager

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15] Display the employee name & department number of all employees
 in dept 10,20,30 & 40.
command:-
select ename,dept from employee where dept= 10 or dept=20 or dept=30 or dept=40;

result:-

ENAME	DEPT
pushkar deshpande	30
nilesh joshi	20
avinash pawar	30
sumit patil	20
niraj sharma	20
Nikhil Gosavi	30
nitin kulkarni	10

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16] Diplay the employee number,name,job and commision of all employees who
    do not get any commision.

command:-select empno,ename,job,commision from employee where commision=0;
result:-

EMPNO	ENAME	JOB	COMMISION
1007	sumit patil	manager	0
1008	ravi sawant	analyst	0
1005	niraj sharma	analyst	0
1003	Nikhil Gosavi	manager	0
1004	nitin kulkarni	president	0

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17]Display the name and salary of all employees whose salary is not in
the range of 5000 and 10000

command:-select ename,salary from employee where not salary between 5000 and 10000;
result:-

ENAME	SALARY
nilesh joshi	2800
sumit patil	25000
niraj sharma	12000
Nikhil Gosavi	2000

nitin kulkarni   50000

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18] Find all names and joined date of employees whose names start with 'A'.

command:- select * from employee where ename like 'a%';

result:-

EMPNO	ENAME	JOB	MGR	SALARY	COMMISION	DEPTNO	ADDRESS	JOINED_DATE
1002	avinash pawar	salesman	1003	5000	1200	40	bangalore	02/20/1996

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19] Find all names of emoployees having 'i' as a second lettter in thier names.

command:-select * from employee where ename like 'a%';

result:-

EMPNO	ENAME	JOB	MGR	SALARY	COMMISION	DEPT	ADDRESS	JOINED_DATE
1001	nilesh joshi	clerk	1005	2800	600	20	nashik	12/17/1995
1005	niraj sharma	analyst	1003	12000	0	20	satara	12/03/1998
1003	Nikhil Gosavi	manager	1004	2000	0	30	pune	04/02/1986
1004	nitin kulkarni	president	0	50000	0	10	mumbai	04/19/1986

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20] Find employees number, name of employees whose commission is not null.

command:-select empno,ename from employee where not commision=0;

result:-

EMPNO	ENAME
1001	nilesh joshi
1002	avinash pawar
1006	pushkar deshpande

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21] display all employee information in the descending order of employee number.

command:-select * from employee order by empno ;

result:-

EMPNO	ENAME	JOB	MGR	SALARY	COMMISION	DEPT	ADDRESS	JOINED_DATE
1008	ravi sawant	analyst	1007	10000	0	0	amaravati	11/17/1995
1007	sumit patil	manager	1004	25000	0	20	mumbai	11/01/1991
1006	pushkar deshpande	salesman	1003	6500	1500	30	pune	09/01/1996
1005	niraj sharma	analyst	1003	12000	0	20	satara	12/03/1998
1004	nitin kulkarni	president	0	50000	0	10	mumbai	04/19/1986

1003	Nikhil Gosavi	manager	1004	2000	0	30	pune	04/02/1986
1002	avinash pawar	salesman	1003	5000	1200	30	bangalore	02/20/1996
1001	nilesh joshi	clerk	1005	2800	600	20	nashik	12/17/1995

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22] Display minimum,maximum,sum & average salary of each job type.
command:-
select min (salary) from employee;
select max (salary) from employee;
select avg (salary) from employee;
select sum (salary) from employee;

Result:-

MAX(SALARY)	MIN(SALARY)	AVG(SALARY)	SUM(SALARY)	JOB
2800	2800	2800	2800	clerk
6500	5000	5750	11500	salesman
25000	2000	13500	27000	manager
12000	10000	11000	22000	analyst
50000	50000	50000	50000	President

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23] Write a query to display the number of employee with the same department.
command:- Select count(empno),deptno from employee group by deptno;

result:-

COUNT(EMPNO)	DEPTNO
3	30
2	10
3	20

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24] Select employee numger, ename according to the annual salary in ascending order

command:-select empno,ename,salary from employee order by salary asc;
result:-

EMPNO	ENAME	SALARY
1003	Nikhil Gosavi	2000
1001	nilesh joshi	2800
1002	avinash pawar	5000
1006	pushkar deshpande	6500
1008	ravi sawant	10000

1005	niraj sharma	12000
1007	sumit patil	25000
1004	nitin kulkarni	50000

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25] Find the department number, maximum salary where the maximum salary is
  greater than 5000. (this answer of mine may be wrong)

command:-select dept,salary from employee where salary>5000;
result:-

DEPT	SALARY
20	25000
0	10000
30	6500
20	12000
10	50000

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26] Find all distinct column values from employee and department table.
command:- select deptno from employee union select deptno from department;

result:-
DEPTNO
10
20
30
40

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27] Find all column values with duplicate from employee
 and department table

command:-
select deptno from employee union all select deptno from department;
result:-
DEPTNO
20
30
20
10
30

20
30
10
10
20
_____

28] Find all column values which are common in both employee
 and department table

command:-select deptno from employee intersect select deptno from department;

result:-

DEPTNO
10
20
30
_____

29]
Find all distinct column values present in employee but
not in department table

command:-select deptno from employee minus select deptno from department;

result:-
no data found
_____
30] Display the number of employees in the department 30
   who can earn a commission.

command:-
select count(empno) from employee where deptno=30 and commision != 0 ;

result:-

COUNT(EMPNO)
2
_____