

Assignment-3

DBMS (UEC716)

By:

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Ques1)

1. Create table Student (Rno, Name, DOB, Gender, Class, College, City, Marks)
2. Insert 5 records in student table
3. Display the information of all the students

```
CREATE TABLE Student(  
    Rno int,  
    Name varchar(20),  
    DOB date,  
    Gender varchar(1),  
    Class varchar(10),  
    College varchar(20),  
    City varchar(20),  
    Marks int  
);
```

```
insert into Student(Rno,Name,DOB,Gender,Class,College,City,Marks) values  
(1,"Ankush","2000-10-06","M","ENC","Thapar","Kaithal",95),  
(2,"Aman","2000-11-05","M","EIC","Thapar","Karnal",85),  
(3,"Nitin","2001-09-26","M","COE","Chitkara","Delhi",74),  
(4,"Yashika","2000-05-15","F","MEE","DTU","Patiala",25),  
(5,"Radha","2001-01-01","F","CSE","CU","Amritsar",87);
```

Output:

The screenshot shows a database interface with a 'Result Grid' tab selected. The grid displays the following data:

	Rno	Name	DOB	Gender	Class	College	City	Marks
▶	1	Ankush	2000-10-06	M	ENC	Thapar	Kaithal	95
	2	Aman	2000-11-05	M	EIC	Thapar	Karnal	85
	3	Nitin	2001-09-26	M	COE	Chitkara	Delhi	74
	4	Yashika	2000-05-15	F	MEE	DTU	Patiala	25
	5	Radha	2001-01-01	F	CSE	CU	Amritsar	87

4. Display the detail structure of student table

```
describe Student;
```

Output:

	Field	Type	Null	Key	Default	Extra
▶	Rno	int	YES		HULL	
	Name	varchar(20)	YES		HULL	
	DOB	date	YES		HULL	
	Gender	varchar(1)	YES		HULL	
	Class	varchar(10)	YES		HULL	
	College	varchar(20)	YES		HULL	
	City	varchar(20)	YES		HULL	
	Marks	int	YES		HULL	

5. Display Rno, Name and Class information of 'Patiala' students.

select Rno,Name,Class from Student where City="Patiala";

	Rno	Name	Class
▶	4	Yashika	MEE

6. Display information on ascending order of marks

select * from student

order by Marks asc;

Output:

	Rno	Name	DOB	Gender	Class	College	City	Marks
▶	4	Yashika	2000-05-15	F	MEE	DTU	Patiala	25
	3	Nitin	2001-09-26	M	COE	Chitkara	Delhi	74
	2	Aman	2000-11-05	M	EIC	Thapar	Karnal	85
	5	Radha	2001-01-01	F	CSE	CU	Amritsar	87
	1	Ankush	2000-10-06	M	ENC	Thapar	Kaithal	95

7. Change the marks of Rno 5 to 89.

update Student

SET Marks=89 where Rno=5;

Output:

	Rno	Name	DOB	Gender	Class	College	City	Marks
▶	1	Ankush	2000-10-06	M	ENC	Thapar	Kaithal	95
	2	Aman	2000-11-05	M	EIC	Thapar	Karnal	85
	3	Nitin	2001-09-26	M	COE	Chitkara	Delhi	74
	4	Yashika	2000-05-15	F	MEE	DTU	Patiala	25
	5	Radha	2001-01-01	F	CSE	CU	Amritsar	89

8. Change the name and city of Rno 9.

Firstly updated the roll no 3 to 9

update student

set Rno=9 where Rno=3;

Now change according to ques.

update student

set Name="Yash", City= "Abohar" where Rno=9;

Output:

	Rno	Name	DOB	Gender	Class	College	City	Marks
▶	1	Ankush	2000-10-06	M	ENC	Thapar	Kaithal	95
	2	Aman	2000-11-05	M	EIC	Thapar	Karnal	85
	9	Yash	2001-09-26	M	COE	Chitkara	Abohar	74
	4	Yashika	2000-05-15	F	MEE	DTU	Patiala	25
	5	Radha	2001-01-01	F	CSE	CU	Amritsar	89

9. Delete the information of 'Amritsar' city records

delete from student

where City="Amritsar";

Output:

	Rno	Name	DOB	Gender	Class	College	City	Marks
▶	1	Ankush	2000-10-06	M	ENC	Thapar	Kaithal	95
	2	Aman	2000-11-05	M	EIC	Thapar	Karnal	85
	9	Yash	2001-09-26	M	COE	Chitkara	Abohar	74
	4	Yashika	2000-05-15	F	MEE	DTU	Patiala	25

10. Delete the records of student where marks<30.

delete from student

where Marks<30;

Output:

	Rno	Name	DOB	Gender	Class	College	City	Marks
▶	1	Ankush	2000-10-06	M	ENC	Thapar	Kaithal	95
	2	Aman	2000-11-05	M	EIC	Thapar	Karnal	85
	9	Yash	2001-09-26	M	COE	Chitkara	Abohar	74

Ques2)

- Create table emp which has the following attributes (employee table) (empno, ename, job, sal, deptno)**
- Insert appropriate records in above tables.**

```
create table emp(
```

```
    empno int,
```

```
    ename varchar(20),
```

```
    job varchar(30),
```

```
    sal int,
```

```
    deptno int
```

```
);
```

	empno	ename	job	sal	deptno

```
insert into emp (empno,ename,job,sal,deptno) values
```

```
(1,"Amit","Clerk",5000,10),
```

```
(2,"Bhawna","Salesperson",3000,20),
```

```
(3,"Chahat","Clerk",4500,30),
```

```
(4,"anushka","Manager",10000,40),
```

```
(5,"Abott","Clerk",1500,50),
```

```
(6,"Oswac","Clerk",1000,60);
```

Output:

empno	ename	job	sal	deptno
1	Amit	Clerk	5000	10
2	Bhawna	Salesperson	2500	20
3	Chahat	Clerk	4500	30
4	anushka	Manager	10000	40
5	Abott	Clerk	1500	50
6	Oswac	Clerk	1000	60

- Get employee no and employee name who works in dept no 10**

```
select empno,ename from emp where deptno=10;
```

	empno	ename
▶	1	Amit

4. Display the employee names of those clerks whose salary > 2000

4) select ename from emp where job="Clerk" and sal>2000;

ename
Amit
Chahat

5. Display name and sal of Salesperson & Clerks

5) select ename,sal from emp where job= "Salesperson" or job="Clerk";

	ename	sal
▶	Amit	5000
	Bhawna	3000
	Chahat	4500
	Abott	1500
	Oswac	1000

6. Display all details of employees whose salary between 2000 and 3000

6) select * from emp where sal between 2000 and 3000;

Result Grid					
Filter Rows: <input type="text"/>					
	empno	ename	job	sal	deptno
▶	2	Bhawna	Salesperson	2500	20

7. Display all details of employees whose dept no is 10, 20, or 30

7) select * from emp where deptno=10 or deptno=20 or deptno=30;

Result Grid					
Filter Rows: <input type="text"/>					
	empno	ename	job	sal	deptno
▶	1	Amit	Clerk	5000	10
	2	Bhawna	Salesperson	2500	20
	3	Chahat	Clerk	4500	30

8. Display the names of those employees whose commission is NULL.

8) Adding column commission:-

alter table emp

add commission int;

update emp

set commission=1100 where empno=5;

Result Grid						
Filter Rows: [] Export: [] Wr						
empno	ename	job	sal	deptno	commission	
1	Amit	Clerk	5000	10	NULL	
2	Bhawna	Salesperson	2500	20	NULL	
3	Chahat	Clerk	4500	30	NULL	
4	anushka	Manager	10000	40	NULL	
5	Abbott	Clerk	1500	50	1100	
6	Oswac	Clerk	1000	60	NULL	

Result Grid	
	ename
▶	Amit
	Bhawna
	Chahat
	anushka
	Oswac

According to ques:-

select ename from emp where commission is null;

9. Display deptno and salary in ascending order of deptno and within each deptno salary should be in descending order.

9) select deptno,sal from emp

order by deptno asc ,sal desc;

Result Grid	
	deptno
▶	10
	20
	30
	40
	50
	60
	5000
	2500
	4500
	10000
	1500
	1000

emp 28 ×

10. Display name of employees that starts with 'C'

10) select ename from emp where ename like 'C%';

Result Grid	
	ename
▶	Chahat

emp 16 ×

11. Display name of employees that ends with 'C'

11) select ename from emp where ename like '%C' ;

Result Grid	
	ename
▶	Oswac

emp 17 ×

12. Display name of employees having two 'a' or 'A' chars in the name

12) select ename from emp where ename like '%a%a%' or ename like'%A%A%' ;

Result Grid	
	ename
▶	Bhawna
	Chahat
	anushka

13. Display the name of the employees whose second char is 'b' or 'B'

13) select ename from emp where ename like '_b%' or ename like '_B%' ;

	ename
▶	Abott

14. Display the name of the employees whose first or last char is 'a' or 'A'

14) select ename from emp where ename like 'a_%' or ename like '_a%' or ename like 'A_%'or ename like '_A%' ;

	ename
▶	Amit
	anushka
	Abott