

Practical No.3-Design at least 10 SQL queries for suitable database application using SQL DML statements : Insert , Update, Delete with operators, functions and set.

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```
create database std5;
```

```
use std5;
```

```
show databases;
```

```
Create table std5( Rollno integer r(6),Fname varchar(15) ,Lname varchar(15),Branch  
varchar(25),Marks integer (10),DOB date,City varchar(10),Phoneno integer(40));
```

```
desc std5;
```

.

	Field	Type	Null	Key	Default	Extra
►	Rollno	int	YES		NULL	
	Fname	varchar(15)	YES		NULL	
	Lname	varchar(15)	YES		NULL	
	Branch	varchar(25)	YES		NULL	
	Marks	int	YES		NULL	
	DOB	date	YES		NULL	
	City	varchar(10)	YES		NULL	
	Phoneno	int	YES		NULL	

```
INSERT INTO std5(Rollno,Fname,Lname,Branch,Marks ,DOB,City,Phoneno) VALUES  
(1,'vivek','mohite','computer',45,'2001-12-28','pune',9322504980);
```

```
INSERT INTO std5(Rollno,Fname,Lname,Branch,Marks ,DOB,City,Phoneno) VALUES  
(2,'Mahesh','Mishti','Mechanical',35,'2004-1-2','Jalna',938545555);
```

```
INSERT INTO std5(Rollno,Fname,Lname,Branch,Marks ,DOB,City,Phoneno) VALUES  
(3,'Riya','patil','ccivil',40,'1999-10-8','Nashik',931555555);
```

```
INSERT INTO std5(Rollno,Fname,Lname,Branch,Marks ,DOB,City,Phoneno) VALUES  
(4,'Pradip','chavan','computer',48,'2000-3-27','Mumbai',93225633);
```

```
INSERT INTO std5(Rollno,Fname,Lname,Branch,Marks ,DOB,City,Phoneno) VALUES  
(5,'Dipti','desgmukh','computer',20,'1994-6-20','Bhandara',932566666);
```

```
INSERT INTO std5(Rollno,Fname,Lname,Branch,Marks ,DOB,City,Phoneno) VALUES
(6,'priya','choudhari','Electical',45,'2005-12-4','pune',93126665);
```

```
INSERT INTO std5(Rollno,Fname,Lname,Branch,Marks ,DOB,City,Phoneno) VALUES
(7,'Rahul','deokar','Electronics',35,'2001-4-10','kolhapur',93212698);
```

```
select * from std5;
```

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	2	Mahesh	Mishti	Mechanical	35	2004-01-02	Jalna	938545555
	3	Riya	patil	ccivil	40	1999-10-08	Nashik	931555555
	4	Pradip	chavan	computer	48	2000-03-27	Mumbai	93225633
	5	Dipti	desgmukh	computer	20	1994-06-20	Bhandara	932566666
	6	priya	choudhari	Electical	45	2005-12-04	pune	93126665
	7	Rahul	deokar	Electronics	35	2001-04-10	kolhapur	93212698

```
select Rollno,Fname,Lname,City from std5;
```

	Rollno	Fname	Lname	City
▶	2	Mahesh	Mishti	Jalna
	3	Riya	patil	Nashik
	4	Pradip	chavan	Mumbai
	5	Dipti	desgmukh	Bhandara
	6	priya	choudhari	pune
	7	Rahul	deokar	kolhapur

```
SELECT SUM(Marks) FROM std5;
```

	SUM(Marks)
▶	223

```
SELECT MAX(Marks) FROM std5;
```

	MAX(Marks)
▶	48

```
SELECT MIN(Marks) FROM std5;
```

	MIN(Marks)
▶	20

```
SELECT AVG(Marks) FROM std5;
```

	AVG(Marks)
▶	37.1667

SELECT * FROM std5 WHERE City='Pune';

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	6	priya	choudhari	Electical	45	2005-12-04	pune	93126665

SELECT * FROM std5 WHERE Branch='Computer';

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	4	Pradip	chavan	computer	48	2000-03-27	Mumbai	93225633
	5	Dipti	desgmukh	computer	20	1994-06-20	Bhandara	932566666

SELECT * FROM std5 WHERE Marks<=20;

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	5	Dipti	desgmukh	computer	20	1994-06-20	Bhandara	932566666

SELECT * FROM std5 WHERE Marks>30;

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	2	Mahesh	Mishti	Mechanical	35	2004-01-02	Jalna	938545555
	3	Riya	patil	ccivil	40	1999-10-08	Nashik	931555555
	4	Pradip	chavan	computer	48	2000-03-27	Mumbai	93225633
	6	priya	choudhari	Electical	45	2005-12-04	pune	93126665
	7	Rahul	deokar	Electronics	35	2001-04-10	kolhapur	93212698

SELECT * FROM std5 WHERE Marks<>40;

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	2	Mahesh	Mishti	Mechanical	35	2004-01-02	Jalna	938545555
	3	Riya	patil	ccivil	40	1999-10-08	Nashik	931555555
	4	Pradip	chavan	computer	48	2000-03-27	Mumbai	93225633
	6	priya	choudhari	Electical	45	2005-12-04	pune	93126665
	7	Rahul	deokar	Electronics	35	2001-04-10	kolhapur	93212698

SELECT * FROM std5 WHERE City LIKE 'M%';

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	4	Pradip	chavan	computer	48	2000-03-27	Mumbai	93225633

SELECT * FROM std5 WHERE Fname LIKE '_____';

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
▶	5	Dipti	desgmukh	computer	20	1994-06-20	Bhandara	932566666
	6	priya	choudhari	Electical	45	2005-12-04	pune	93126665
	7	Rahul	deokar	Electronics	35	2001-04-10	kolhapur	93212698

SELECT * FROM std5 WHERE Branch LIKE '%s';

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
►	7	Rahul	deokar	Electronics	35	2001-04-10	kolhapur	93212698

SELECT * FROM std5 WHERE Marks BETWEEN 30 AND 40;

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
►	2	Mahesh	Mishti	Mechanical	35	2004-01-02	Jalna	938545555
	3	Riya	patil	ccivil	40	1999-10-08	Nashik	931555555
	7	Rahul	deokar	Electronics	35	2001-04-10	kolhapur	93212698

SELECT * FROM std5 WHERE Marks IN(30,40);

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno
►	3	Riya	patil	ccivil	40	1999-10-08	Nashik	931555555

SELECT Rollno,Fname AS NAME FROM std5;

	Rollno	NAME
►	2	Mahesh
	3	Riya
	4	Pradip
	5	Dipti
	6	priya
	7	Rahul

SELECT DISTINCT(Lname) FROM std5;

	Lname
►	Mishti
	patil
	chavan
	desgmukh
	choudhari
	deokar

SELECT Rollno,SUM(Marks) FROM std5 GROUP BY Rollno;

	Rollno	SUM(Marks)
▶	2	35
	3	40
	4	48
	5	20
	6	45
	7	35

SELECT Fname,MAX(Marks) FROM std5 GROUP BY Fname;

	Fname	MAX(Marks)
▶	Mahesh	35
	Riya	40
	Pradip	48
	Dipti	20
	priya	45
	Rahul	35

SELECT Rollno,MIN(Marks) FROM std5 GROUP BY Rollno HAVING Rollno IN(2,5);

	Rollno	MIN(Marks)
▶	2	35
	5	20

SELECT City,DOB,Fname FROM std5 ORDER BY Marks ASC, Lname DESC;

	City	DOB	Fname
▶	Bhandara	1994-06-20	Dipti
	Jalna	2004-01-02	Mahesh
	kolhapur	2001-04-10	Rahul
	Nashik	1999-10-08	Riya
	pune	2005-12-04	priya
	Mumbai	2000-03-27	Pradip

```
ALTER TABLE std25 ADD Subject varchar(6);
```

```
UPDATE std5 SET Subject='M3';
```

```
SELECT * FROM std5;
```

	Rollno	Fname	Lname	Branch	Marks	DOB	City	Phoneno	Subject
▶	2	Mahesh	Mishti	Mechanical	35	2004-01-02	Jalna	938545555	NULL
	3	Riya	patil	ccivil	40	1999-10-08	Nashik	931555555	NULL
	4	Pradip	chavan	computer	48	2000-03-27	Mumbai	93225633	NULL
	5	Dipti	desgmukh	computer	20	1994-06-20	Bhandara	932566666	NULL
	6	priya	choudhari	Electical	45	2005-12-04	pune	93126665	NULL
	7	Rahul	deokar	Electronics	35	2001-04-10	kolhapur	93212698	NULL

```
CREATE TABLE Std12(Rollno Integer(5),City Varchar(5),Class VARCHAR(10));
```

```
desc std12;
```

```
INSERT INTO std12(Rollno,City,Class)VALUES(1,'pune','FE');
```

```
INSERT INTO std12(Rollno,City,Class)VALUES(2,'Jalna','SE');
```

```
INSERT INTO std12(Rollno,City,Class)VALUES(3,'pune','TE');
```

```
select * from std12;
```

	Rollno	City	Class
▶	1	pune	FE
	2	Jalna	SE
	3	pune	TE

```
SELECT Rollno FROM std5 UNION SELECT Rollno FROM std12;
```

	Rollno
▶	2
	3
	4
	5
	6
	7
	1

```
SELECT City FROM std5 Intersect SELECT City FROM std12;
```

```
SELECT City FROM std5 Minus SELECT City FROM std12;
```

