# SQL PROJECT

# NAME: ROHIT DATTATRAY SONAWALE

DATABASE NAME : Education\_info

#### city table

CREATE TABLE city(city\_id int NOT null,city\_name varchar(50) NOT null,city\_pin int NOT null, PRIMARY KEY(city\_id));

#### **INSERT INTO city**

VALUES(1,"agra",10),(2,"delhi",20),(3,"mumbai",30),(4,"banglore",40),(5,"nashi k",50);

city_id	city_name	city_pin
1	agra	10
2	delhi	20
3	mumbai	30
4	banglore	40
5	nashik	50

#### **Courses table**

CREATE TABLE courses(course\_id int NOT null,course\_name varchar(50) NOT null,course\_duration int NOT null, PRIMARY KEY(course\_id));

#### **INSERT INTO courses**

VALUES(1,"MBA",2),(2,"Btech",3),(3,"CA",5),(4,"BBA",3),(5,"BCA",3);

course_id	course_name	course_duration
1	MBA	2
2	Btech	3
3	CA	5
4	BBA	3
5	BCA	3

#### Student\_info table

CREATE TABLE student\_info(stu\_id int NOT null,name varchar(50) NOT null,age int NOT null,gender varchar(10) NOT null,marks int not null,fees int NOT null,phone int NOT null,city int NOT null,PRIMARY KEY(stu\_id),FOREIGN KEY(city) REFERENCES city(city\_id));

INSERT INTO student\_info VALUES(1,"ramesh kumar",19,"male",70,10000,12345,1),(2,"kalpana chawala",21,"female",75,20000,67890,2),(3,"sharukh khan",20,"male",80,30000,95678,1),(4,"anil

kumar",23,"male",60,70000,22334,3),(5,"suraj pawar",18,"male",65,80000,55664,4),(6,"sakshi yadav",20,"female",32,60000,87054,5),(7,"vishal more",21,"male",38,50000,22115,3),(8,"sarita kumari",22,"female",30,40000,46732,2);

stu_id	name	age	gender	marks	fees	phone	city
1	ramesh kumar	19	male	70	10000	12345	1
2	kalpana chawala	21	female	75	20000	67890	2
3	sharukh khan	20	male	80	30000	95678	1
4	anil kumar	23	male	60	70000	22334	3
5	suraj pawar	18	male	65	80000	55664	4
6	sakshi yadav	20	female	32	60000	87054	5
7	vishal more	21	male	38	50000	22115	3
8	sarita kumari	22	female	30	40000	46732	2

#### • Display ID, name and fees of students.

SELECT stu\_id, name, fees FROM student\_info;

stu_id	name	fees
1	ramesh kumar	10000
2	kalpana chawala	20000
3	sharukh khan	30000
4	anil kumar	70000
5	suraj pawar	80000
6	sakshi yadav	60000
7	vishal more	50000
8	sarita kumari	40000

•Display id, name, age, gender of students having age greater than 20.

SELECT stu\_id, name, age, gender FROM student\_info
WHERE age > 20;

stu_id	name	age	gender
2	kalpana chawala	21	female
4	anil kumar	23	male
7	vishal more	21	male
8	sarita kumari	22	female

# •Display the name of the students whose name start with s.

SELECT name FROM student\_info WHERE name LIKE "s%";

name sharukh khan suraj pawar sakshi yadav sarita kumari

# •Display the students information who's age is between 18 and 21.

SELECT \* FROM student\_info WHERE age BETWEEN 18
AND 21;

stu_id	name	age	gender	marks	fees	phone	city
1	ramesh kumar	19	male	70	10000	12345	1
2	kalpana chawala	21	female	75	20000	67890	2
3	sharukh khan	20	male	80	30000	95678	1
5	suraj pawar	18	male	65	80000	55664	4
6	sakshi yadav	20	female	32	60000	87054	5
7	vishal more	21	male	38	50000	22115	3

•Display the name of the student whose name start with "k" and end with "a".

SELECT name FROM student\_info WHERE name LIKE "k%a";

#### name

kalpana chawala

# •Display the id, name and age of the student whose name end with "khan".

SELECT stu\_id, name, age FROM student\_info WHERE name REGEXP"khan\$";

stu_id	name	age
3	sharukh khan	20

#### Display the name of the student in descending order.

SELECT \* FROM student info ORDER BY name DESC;

stu_id	name ▼ 1	age	gender	marks	fees	phone	city
7	vishal more	21	male	38	50000	22115	3
5	suraj pawar	18	male	65	80000	55664	4
3	sharukh khan	20	male	80	30000	95678	1
8	sarita kumari	22	female	30	40000	46732	2
6	sakshi yadav	20	female	32	60000	87054	5
1	ramesh kumar	19	male	70	10000	12345	1
2	kalpana chawala	21	female	75	20000	67890	2
4	anil kumar	23	male	60	70000	22334	3

• Display the distinct ages of the students and shows it as distinct ages.

```
SELECT DISTINCT age AS "distinct
age" FROM student_info;
```

distinct age
19
21
20
23
18
22

• Display the first five records of the student table.

```
SELECT * FROM student_info LIMIT 5;
```

stu_id	name	age	gender	marks	fees	phone	city
1	ramesh kumar	19	male	70	10000	12345	1
2	kalpana chawala	21	female	75	20000	67890	2
3	sharukh khan	20	male	80	30000	95678	1
4	anil kumar	23	male	60	70000	22334	3
5	suraj pawar	18	male	65	80000	55664	4

#### Display the maximum fees of the student.

SELECT max(fees) AS "maximum fees" FROM student info;

#### maximum fees 80000

#### Display the total fees of the student.

SELECT SUM(fees) AS "total fees" FROM student\_info;

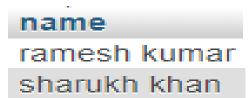
total fees 360000

# Display the name of the student who are from agra city

SELECT

name FROM student info

WHERE city=(SELECT city id FROM city WHERE city name="agra");



### •INNER JOIN

SELECT \* FROM

student\_info INNER JOIN city

ON student\_info.City=city.City\_id;

name	age	gender	marks	fees	phone	city	city_id	city_name	city_pin
ramesh kumar	19	male	70	10000	12345	1	1	agra	10
kalpana chawala	21	female	75	20000	67890	2	2	delhi	20
sharukh khan	20	male	80	30000	95678	1	1	agra	10
anil kumar	23	male	60	70000	22334	3	3	mumbai	30
suraj pawar	18	male	65	80000	55664	4	4	banglore	40
sakshi yadav	20	female	32	60000	87054	5	5	nashik	50
vishal more	21	male	38	50000	22115	3	3	mumbai	30
sarita kumari	22	female	30	40000	46732	2	2	delhi	20
	ramesh kumar kalpana chawala sharukh khan anil kumar suraj pawar sakshi yadav vishal more	ramesh kumar 19 kalpana chawala 21 sharukh khan 20 anil kumar 23 suraj pawar 18 sakshi yadav 20 vishal more 21	ramesh kumar 19 male kalpana chawala 21 female sharukh khan 20 male anil kumar 23 male suraj pawar 18 male sakshi yadav 20 female vishal more 21 male	ramesh kumar 19 male 70 kalpana chawala 21 female 75 sharukh khan 20 male 80 anil kumar 23 male 60 suraj pawar 18 male 65 sakshi yadav 20 female 32 vishal more 21 male 38	ramesh kumar 19 male 70 10000 kalpana chawala 21 female 75 20000 sharukh khan 20 male 80 30000 anil kumar 23 male 60 70000 suraj pawar 18 male 65 80000 sakshi yadav 20 female 32 60000 vishal more 21 male 38 50000	ramesh kumar 19 male 70 10000 12345 kalpana chawala 21 female 75 20000 67890 sharukh khan 20 male 80 30000 95678 anil kumar 23 male 60 70000 22334 suraj pawar 18 male 65 80000 55664 sakshi yadav 20 female 32 60000 87054 vishal more 21 male 38 50000 22115	ramesh kumar 19 male 70 10000 12345 1 kalpana chawala 21 female 75 20000 67890 2 sharukh khan 20 male 80 30000 95678 1 anil kumar 23 male 60 70000 22334 3 suraj pawar 18 male 65 80000 55664 4 sakshi yadav 20 female 32 60000 87054 5 vishal more 21 male 38 50000 22115 3	ramesh kumar 19 male 70 10000 12345 1 1 kalpana chawala 21 female 75 20000 67890 2 2 sharukh khan 20 male 80 30000 95678 1 1 anil kumar 23 male 60 70000 22334 3 3 suraj pawar 18 male 65 80000 55664 4 4 sakshi yadav 20 female 32 60000 87054 5 5 vishal more 21 male 38 50000 22115 3 3	ramesh kumar 19 male 70 10000 12345 1 1 agra kalpana chawala 21 female 75 20000 67890 2 2 delhi sharukh khan 20 male 80 30000 95678 1 1 agra anil kumar 23 male 60 70000 22334 3 3 mumbai suraj pawar 18 male 65 80000 55664 4 4 banglore sakshi yadav 20 female 32 60000 87054 5 5 nashik vishal more 21 male 38 50000 22115 3 3 mumbai

### • LEFT JOIN

```
SELECT * FROM
student_info LEFT JOIN city
ON student_info.city=city.city_id;
```

stu_id	name	age	gender	marks	fees	phone	city	city_id	city_name	city_pin
1	ramesh kumar	19	male	70	10000	12345	1	1	agra	10
2	kalpana chawala	21	female	75	20000	67890	2	2	delhi	20
3	sharukh khan	20	male	80	30000	95678	1	1	agra	10
4	anil kumar	23	male	60	70000	22334	3	3	mumbai	30
5	suraj pawar	18	male	65	80000	55664	4	4	banglore	40
6	sakshi yadav	20	female	32	60000	87054	5	5	nashik	50
7	vishal more	21	male	38	50000	22115	3	3	mumbai	30
8	sarita kumari	22	female	30	40000	46732	2	2	delhi	20

### • RIGHT JOIN

#### SELECT

```
student_info.stu_id,student_info.name,student_info.marks,student_info.
gender,city_name
```

FROM student\_info RIGHT JOIN city

ON student\_info.City=city.City\_id;

stu_id	name	marks	gender	city_name
1	ramesh kumar	70	male	agra
3	sharukh khan	80	male	agra
2	kalpana chawala	75	female	delhi
8	sarita kumari	30	female	delhi
4	anil kumar	60	male	mumbai
7	vishal more	38	male	mumbai
5	suraj pawar	65	male	banglore
6	sakshi yadav	32	female	nashik

### • CROSS JOIN

#### SELECT

student\_info.stu\_id, student\_info.name, city.city\_id, city
.city\_name
FROM student\_info CROSS JOIN city;

stu id	name	city_id	city name
1	ramesh kumar	1	agra
1	ramesh kumar	2	delhi
1	ramesh kumar	3	mumbai
1	ramesh kumar	4	banglore
1	ramesh kumar	5	nashik
2	kalpana chawala	1	agra
2	kalpana chawala	2	delhi
2	kalpana chawala	3	mumbai
2	kalpana chawala	4	banglore
2	kalpana chawala	5	nashik
3	sharukh khan	1	agra
3	sharukh khan	2	delhi
3	sharukh khan	3	mumbai
3	sharukh khan	4	banglore
3	sharukh khan	5	nashik
4	anil kumar	1	agra
4	anil kumar	2	delhi
4	anil kumar	3	mumbai
4	anil kumar	4	banglore
4	anil kumar	5	nashik
5	suraj pawar	1	agra
5	suraj pawar	2	delhi
5	suraj pawar	3	mumbai
5	suraj pawar	4	banglore
5	suraj pawar	5	nashik

•If the student marks greater than equal to 35 then they will be pass and if the student marks less than 35 then they will be fail, show with the help of sql.

```
SELECT stu_id, name, marks,
IF (marks >= 35, "pass", "fail") AS "Result"
FROM student_info;
```

stu_id	name	marks	Result
1	ramesh kumar	70	pass
2	kalpana chawala	75	pass
3	sharukh khan	80	pass
4	anil kumar	60	pass
5	suraj pawar	65	pass
6	sakshi yadav	32	fail
7	vishal more	38	pass
8	sarita kumari	30	fail

# •Convert the name of the student into the uppercase.

SELECT stu id, UPPER (name) FROM student info;

UPPER(name)
RAMESH KUMAR
KALPANA CHAWALA
SHARUKH KHAN
ANIL KUMAR
SURAJ PAWAR
SAKSHI YADAV
VISHAL MORE
SARITA KUMARI

### •combine the name and marks column.

SELECT stu\_id, concat (name, marks) AS NAME
FROM student\_info;

stu_id	NAME
1	ramesh kumar70
2	kalpana chawala75
3	sharukh khan80
4	anil kumar60
5	suraj pawar65
6	sakshi yadav32
7	vishal more38
8	sarita kumari30

## • shows students marks increase by 2.

SELECT stu id, name, (marks + 2) AS "NEW MARKS" FROM student info; stu\_id name **NEW MARKS** 72 1 ramesh kumar 2 kalpana chawala 77 3 sharukh khan 82 4 anil kumar 62 5 suraj pawar 67 6 sakshi yadav 34 vishal more 40 sarita kumari 32