ASSESSMENT – 2

1)To create, update delete commands in mysql

Code:

```
1
2  CREATE TABLE students (
3    id INTEGER PRIMARY KEY,
4    name VARCHAR(20),
5    state VARCHAR(30),
6    age INT
7  );
8
9  INSERT INTO students VALUES (1, 'Ravi','Punjab',21);
10 INSERT INTO students VALUES (2, 'Kumar','Kerala',25);
11 INSERT INTO students VALUES (3, 'Sai','Bihar',24);
12 INSERT INTO students VALUES (4, 'Harsh','Andhra',22);
13 INSERT INTO students VALUES (5, 'Karthi','Gujarat',23);
14
15 SELECT * FROM students;
16
```

Output

```
id      name    state   age
1       Ravi    Punjab  21
2       Kumar   Kerala  25
3       Sai     Bihar   24
4       Harsh   Andhra  22
5       Karthi  Gujarat 23
```

Update:

```
1
2  CREATE TABLE students (
3    id INTEGER PRIMARY KEY,
4    name VARCHAR(20),
5    state VARCHAR(30),
6    age INT
7  );
8
9  INSERT INTO students VALUES (1, 'Ravi','Punjab',21);
10 INSERT INTO students VALUES (2, 'Kumar','Kerala',25);
11 INSERT INTO students VALUES (3, 'Sai','Bihar',24);
12 INSERT INTO students VALUES (4, 'Harsh','Andhra',22);
13 INSERT INTO students VALUES (5, 'Karthi','Gujarat',23);
14
15 UPDATE students SET name ='Kavin' WHERE id=2;
16
```

Output

id	name	state	age
1	Ravi	Punjab	21
2	Kavin	Kerala	25
3	Sai	Bihar	24
4	Harsh	Andhra	22
5	Karthi	Gujarat	23

Delete:

```
1
2  CREATE TABLE students (
3    id INTEGER PRIMARY KEY,
4    name VARCHAR(20),
5    state VARCHAR(30),
6    age INT
7  );
8
9  INSERT INTO students VALUES (1, 'Ravi','Punjab',21);
10 INSERT INTO students VALUES (2, 'Kumar','Kerala',25);
11 INSERT INTO students VALUES (3, 'Sai','Bihar',24);
12 INSERT INTO students VALUES (4, 'Harsh','Andhra',22);
13 INSERT INTO students VALUES (5, 'Karthi','Gujarat',23);
14
15 UPDATE students SET name ='Kavin' WHERE id=2;
16 DELETE FROM students WHERE id=3;
17
18 SELECT * FROM students;
19
```

Output

```
id      name    state   age
1       Ravi    Punjab  21
2       Kavin   Kerala  25
4       Harsh   Andhra  22
5       Karthi  Gujarat 23
```

2) Create tables and joins in mysql

Creating tables

```
1
2  CREATE TABLE students (
3    s_id INTEGER PRIMARY KEY,
4    s_name VARCHAR(20),
5    s_mark INT
6
7  );
8  INSERT INTO students VALUES (1, 'Ravi',58);
9  INSERT INTO students VALUES (2, 'Kumar',97);
10 INSERT INTO students VALUES (3, 'Sai',89);
11 INSERT INTO students VALUES (4, 'Harsh',76);
12 INSERT INTO students VALUES (5, 'Karthi',90);
13
14 CREATE TABLE teachers(
15 t_id INTEGER PRIMARY KEY,
16 t_name VARCHAR(20),
17 t_sub VARCHAR(10)
18 );
19 INSERT INTO teachers VALUES (2, 'Kavin','ENG');
20 INSERT INTO teachers VALUES (3, 'Sankar','SC');
21 INSERT INTO teachers VALUES (7, 'Rajesh','MATHS');
22 INSERT INTO teachers VALUES (1, 'Kapil','BIO');
23 INSERT INTO teachers VALUES (6, 'Ramesh','PHY');
24 SELECT*FROM students;
25 SELECT*FROM teachers;
```

Output

```
s_id    s_name  s_mark
1       Ravi    58
2       Kumar   97
3       Sai     89
4       Harsh   76
5       Karthi  90
t_id    t_name  t_sub
1       Kapil   BIO
2       Kavin   ENG
3       Sankar  SC
6       Ramesh  PHY
7       Rajesh  MATHS
```

Perform joins

INNER JOIN

```
CREATE TABLE students (
  s_id INTEGER PRIMARY KEY,
  s_name VARCHAR(20),
  s_mark INT

);
INSERT INTO students VALUES (1, 'Ravi',58);
INSERT INTO students VALUES (2, 'Kumar',97);
INSERT INTO students VALUES (3, 'Sai',89);
INSERT INTO students VALUES (4, 'Harsh',76);
INSERT INTO students VALUES (5, 'Karthi',90);

CREATE TABLE teachers(
t_id INTEGER PRIMARY KEY,
t_name VARCHAR(20),
t_sub VARCHAR(10)
);
INSERT INTO teachers VALUES (2, 'Kavin','ENG');
INSERT INTO teachers VALUES (3, 'Sankar','SC');
INSERT INTO teachers VALUES (7, 'Rajesh','MATHS');
INSERT INTO teachers VALUES (1, 'Kapil','BIO');
INSERT INTO teachers VALUES (6, 'Ramesh','PHY');
SELECT students.s_name,students.s_mark,teachers.t_name,teachers.t_sub
FROM students
INNER JOIN teachers ON students.s_id=teachers.t_id;
```

Output

s_name	s_mark	t_name	t_sub
Ravi	58	Kapil	BIO
Kumar	97	Kavin	ENG
Sai	89	Sankar	SC

LEFT JOIN

```
CREATE TABLE students (
  s_id INTEGER PRIMARY KEY,
  s_name VARCHAR(20),
  s_mark INT

);
INSERT INTO students VALUES (1, 'Ravi',58);
INSERT INTO students VALUES (2, 'Kumar',97);
INSERT INTO students VALUES (3, 'Sai',89);
INSERT INTO students VALUES (4, 'Harsh',76);
INSERT INTO students VALUES (5, 'Karthi',90);

CREATE TABLE teachers(
t_id INTEGER PRIMARY KEY,
t_name VARCHAR(20),
t_sub VARCHAR(10)
);
INSERT INTO teachers VALUES (2, 'Kavin','ENG');
INSERT INTO teachers VALUES (3, 'Sankar','SC');
INSERT INTO teachers VALUES (7, 'Rajesh','MATHS');
INSERT INTO teachers VALUES (1, 'Kapil','BIO');
INSERT INTO teachers VALUES (6, 'Ramesh','PHY');
SELECT students.s_name,students.s_mark,teachers.t_name,teachers.t_sub
FROM students
LEFT JOIN teachers ON students.s_id=teachers.t_id;
```

Output

s_name	s_mark	t_name	t_sub
Ravi	58	Kapil	BIO
Kumar	97	Kavin	ENG
Sai	89	Sankar	SC
Harsh	76	NULL	NULL
Karthi	90	NULL	NULL

RIGHT JOIN

```
CREATE TABLE students (
  s_id INTEGER PRIMARY KEY,
  s_name VARCHAR(20),
  s_mark INT

);
INSERT INTO students VALUES (1, 'Ravi',58);
INSERT INTO students VALUES (2, 'Kumar',97);
INSERT INTO students VALUES (3, 'Sai',89);
INSERT INTO students VALUES (4, 'Harsh',76);
INSERT INTO students VALUES (5, 'Karthi',90);

CREATE TABLE teachers(
t_id INTEGER PRIMARY KEY,
t_name VARCHAR(20),
t_sub VARCHAR(10)
);
INSERT INTO teachers VALUES (2, 'Kavin','ENG');
INSERT INTO teachers VALUES (3, 'Sankar','SC');
INSERT INTO teachers VALUES (7, 'Rajesh','MATHS');
INSERT INTO teachers VALUES (1, 'Kapil','BIO');
INSERT INTO teachers VALUES (6, 'Ramesh','PHY');
SELECT students.s_name,students.s_mark,teachers.t_name,teachers.t_sub
FROM students
RIGHT JOIN teachers ON students.s_id=teachers.t_id;
```

Output

s_name	s_mark	t_name	t_sub
Ravi	58	Kapil	BIO
Kumar	97	Kavin	ENG
Sai	89	Sankar	SC
NULL	NULL	Ramesh	PHY
NULL	NULL	Rajesh	MATHS

CROSS JOINS

```
CREATE TABLE students (
  s_id INTEGER PRIMARY KEY,
  s_name VARCHAR(20),
  s_mark INT

);
INSERT INTO students VALUES (1, 'Ravi',58);
INSERT INTO students VALUES (2, 'Kumar',97);
INSERT INTO students VALUES (3, 'Sai',89);
INSERT INTO students VALUES (4, 'Harsh',76);
INSERT INTO students VALUES (5, 'Karthi',90);

CREATE TABLE teachers(
t_id INTEGER PRIMARY KEY,
t_name VARCHAR(20),
t_sub VARCHAR(10)
);
INSERT INTO teachers VALUES (2, 'Kavin','ENG');
INSERT INTO teachers VALUES (3, 'Sankar','SC');
INSERT INTO teachers VALUES (7, 'Rajesh','MATHS');
INSERT INTO teachers VALUES (1, 'Kapil','BIO');
INSERT INTO teachers VALUES (6, 'Ramesh','PHY');
SELECT students.s_name,students.s_mark,teachers.t_name,teachers.t_sub
FROM students
CROSS JOIN teachers ON students.s_id=teachers.t_id;
```

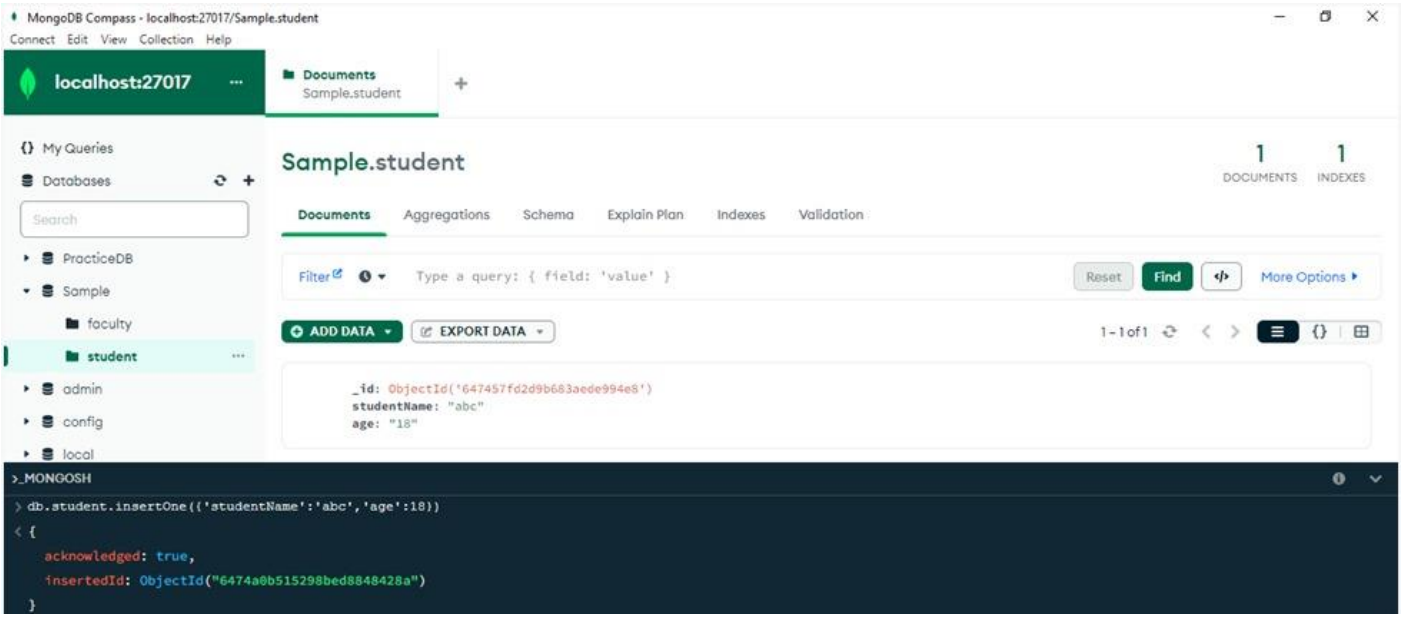
Output

s_name	s_mark	t_name	t_sub
Ravi	58	Kapil	BIO
Kumar	97	Kavin	ENG
Sai	89	Sankar	SC

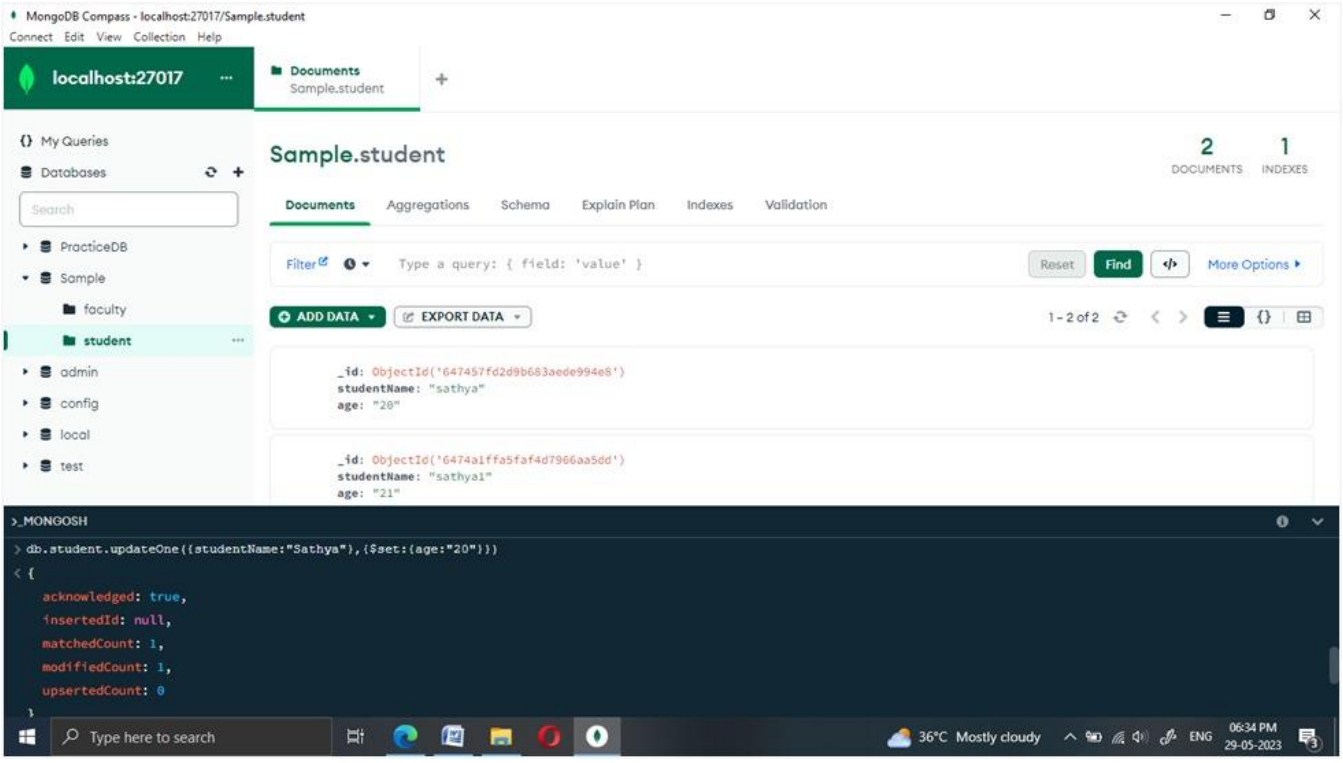
NAME: SATHYA P REG.NO: 20BEC0642

3) To create, update,delete commands in mongo

Create :



Update:



NAME: SATHYA P REG.NO: 20BEC0642

Delete: