<u>DBMS ASSIGNMENT – 3</u> SEQUENTIAL QUERY LANGUAGE

Roll Number: U19CS012

Name: BHAGYA VINOD RANA

Q1) Create a table Student with fields

RollNo Number (6) Primary key
Name Character (25)
Semester Number (3)
DOB Date
AdmissionDate Date
HostelRoom Number (5) (Null values allowed)

Insert 10 Rows in the above created table.

SQL-Code [SQLite 3.29.0]:

```
BEGIN TRANSACTION;
CREATE TABLE STUDENT(
    roll_no integer PRIMARY KEY,
    name text,
    semester integer,
    date_of_birth DATE,
    admission_date DATE,
    hostel room integer
);
INSERT INTO STUDENT VALUES(
    101,
    'Bhagya',
    '2001-01-02',
    '2001-02-03',
    104
);
INSERT INTO STUDENT VALUES(
    201,
    'Nobita',
```

```
3,
    '2001-03-04',
    '2001-04-05',
    745
);
INSERT INTO STUDENT VALUES(
    103,
    'Doraemon',
   5,
   '2001-05-06',
    '2001-06-07',
    450
);
INSERT INTO STUDENT VALUES(
    204,
    'Shizuka',
    4,
   '2001-07-08',
    '2001-08-09',
    789
);
INSERT INTO STUDENT VALUES(
    150,
   'Sunio',
   4,
   '2001-09-02',
    '2001-10-03',
    912
);
INSERT INTO STUDENT VALUES(
   612,
   'Gian',
   3,
    '2000-11-04',
    '2001-12-05',
    312
);
INSERT INTO STUDENT VALUES(
    107,
    'Kiteretsu',
   '2001-01-06',
    '2001-02-07',
    390
```

```
INSERT INTO STUDENT VALUES(
    118,
    'Shinchan',
    '2001-03-08',
    '2001-04-09',
    881
);
INSERT INTO STUDENT VALUES(
    190,
    'Harry',
   6,
    '2000-05-02',
    '2001-06-03',
    654
);
INSERT INTO STUDENT VALUES(
    210,
    'Salman',
   '2000-07-04',
    '2001-08-07',
    981
);
COMMIT;
SELECT * FROM STUDENT;
SELECT roll no, name FROM STUDENT;
SELECT * FROM STUDENT WHERE semester==4;
SELECT * FROM STUDENT WHERE roll no>=100 and roll no<=200;
SELECT * FROM STUDENT WHERE date_of_birth > '2001-01-01';
```

Display the below details.

1. Student table with all columns and rows.

```
101|Bhagya|4|2001-01-02|2001-02-03|104
103|Doraemon|5|2001-05-06|2001-06-07|450
107|Kiteretsu|4|2001-01-06|2001-02-07|390
118|Shinchan|2|2001-03-08|2001-04-09|881
150|Sunio|4|2001-09-02|2001-10-03|912
190|Harry|6|2000-05-02|2001-06-03|654
201|Nobita|3|2001-03-04|2001-04-05|745
204|Shizuka|4|2001-07-08|2001-08-09|789
210|Salman|4|2000-07-04|2001-08-07|981
612|Gian|3|2000-11-04|2001-12-05|312
```

Student details with columns Roll number and Name only.

101 | Bhagya 103 | Doraemon 107 | Kiteretsu 118 | Shinchan 150 | Sunio 190 | Harry 201 | Nobita 204 | Shizuka 210 | Salman 612 | Gian

3. Student details of all the students who are in 4th semester.

```
101|Bhagya|4|2001-01-02|2001-02-03|104

107|Kiteretsu|4|2001-01-06|2001-02-07|390

150|Sunio|4|2001-09-02|2001-10-03|912

204|Shizuka|4|2001-07-08|2001-08-09|789

210|Salman|4|2000-07-04|2001-08-07|981
```

4. Student details of all the students whose Roll number is Between 100 to 200.

```
101|Bhagya|4|2001-01-02|2001-02-03|104

103|Doraemon|5|2001-05-06|2001-06-07|450

107|Kiteretsu|4|2001-01-06|2001-02-07|390

118|Shinchan|2|2001-03-08|2001-04-09|881

150|Sunio|4|2001-09-02|2001-10-03|912

190|Harry|6|2000-05-02|2001-06-03|654
```

5. Student details of all the students whose **DOB** is greater than **1st Jan 2001**.

```
101|Bhagya|4|2001-01-02|2001-02-03|104

103|Doraemon|5|2001-05-06|2001-06-07|450

107|Kiteretsu|4|2001-01-06|2001-02-07|390

118|Shinchan|2|2001-03-08|2001-04-09|881

150|Sunio|4|2001-09-02|2001-10-03|912

201|Nobita|3|2001-03-04|2001-04-05|745

204|Shizuka|4|2001-07-08|2001-08-09|789
```

Q2) Create a table Employee with fields EmpID Number (6) Primary key Name Character (25) Department Character (30) Manager ID Number (6) JoiningDate Date Salary Number (8)

Insert 10 Rows in the above created table. **SQL-Code** [SQLite 3.29.0]:

```
BEGIN TRANSACTION;
CREATE TABLE EMPLOYEE(
    emp_id integer PRIMARY KEY,
    emp_name text,
    department text,
    manager_id integer,
    joining_date DATE,
    salary integer
);
INSERT INTO EMPLOYEE VALUES(
    4123,
    'Ninja_Hatori',
    'Production',
    1002,
    '2020-04-01',
    65000
);
INSERT INTO EMPLOYEE VALUES(
    4129,
    'Garfield',
    'Research',
    1027,
    '2018-04-02',
    45000
);
INSERT INTO EMPLOYEE VALUES(
    4230,
    'Mickey',
    'Marketing',
    1022,
```

```
'2020-04-03',
    35000
);
INSERT INTO EMPLOYEE VALUES(
    4428,
    'Kiteretsu',
    'Accounting',
   1002,
    '2019-04-04',
    75000
);
INSERT INTO EMPLOYEE VALUES(
    4073,
    'Shizuka',
   'HR',
   1027,
    '2020-04-05',
    60000
);
INSERT INTO EMPLOYEE VALUES(
    4983,
    'Mr.Bean',
   'HR',
    1002,
    '2017-04-06',
    100000
);
INSERT INTO EMPLOYEE VALUES(
    4009,
    'Nobita',
   'Research',
    1022,
    '2015-04-07',
    50000
);
INSERT INTO EMPLOYEE VALUES(
    4773,
    'Doraemon',
   'Marketing',
    1042,
    '2020-04-08',
    25000
);
INSERT INTO EMPLOYEE VALUES(
```

```
4833,
    'Gian',
    'Accounting',
    1102,
    '2018-04-09',
    95000
);
INSERT INTO EMPLOYEE VALUES(
    4337,
    'Donald',
    'HR',
    1082,
    '2020-04-10',
    55000
);
COMMIT;
SELECT * FROM EMPLOYEE;
SELECT emp_name, department FROM EMPLOYEE;
SELECT * FROM EMPLOYEE where department=='HR';
SELECT * FROM EMPLOYEE WHERE salary>=50000 and salary<=100000;</pre>
SELECT * FROM EMPLOYEE WHERE joining_date > '2020-01-01';
```

Display the below details.

1. Employee table with all columns and rows.

```
| 4009 | Nobita | Research | 1022 | 2015-04-07 | 50000 | 4073 | Shizuka | HR | 1027 | 2020-04-05 | 60000 | 4123 | Ninja_Hatori | Production | 1002 | 2020-04-01 | 65000 | 4129 | Garfield | Research | 1027 | 2018-04-02 | 45000 | 4230 | Mickey | Marketing | 1022 | 2020-04-03 | 35000 | 4337 | Donald | HR | 1082 | 2020-04-10 | 55000 | 4428 | Kiteretsu | Accounting | 1002 | 2019-04-04 | 75000 | 4773 | Doraemon | Marketing | 1042 | 2020-04-08 | 25000 | 4833 | Gian | Accounting | 1102 | 2018-04-09 | 95000 | 4983 | Mr. Bean | HR | 1002 | 2017-04-06 | 100000
```

2. Employee details with columns **Name** and **Department** only.

Nobita | Research Shizuka | HR Ninja_Hatori | Production Garfield | Research Mickey | Marketing Donald | HR Kiteretsu | Accounting Doraemon | Marketing Gian | Accounting Mr. Bean | HR

3. Employee details of all the Employees who are in \underline{HR} department.

4073|Shizuka|HR|1027|2020-04-05|60000 4337|Donald|HR|1082|2020-04-10|55000 4983|Mr.Bean|HR|1002|2017-04-06|100000 4. Employee details of all the Employees whose salary is between 50000 to 100000.

```
4009|Nobita|Research|1022|2015-04-07|50000

4073|Shizuka|HR|1027|2020-04-05|60000

4123|Ninja_Hatori|Production|1002|2020-04-01|65000

4337|Donald|HR|1082|2020-04-10|55000

4428|Kiteretsu|Accounting|1002|2019-04-04|75000

4833|Gian|Accounting|1102|2018-04-09|95000

4983|Mr.Bean|HR|1002|2017-04-06|100000
```

5. Employee details of all the Employees whose **JoiningDate** is greater than **1st jan 2020**.

```
4073|Shizuka|HR|1027|2020-04-05|60000
4123|Ninja_Hatori|Production|1002|2020-04-01|65000
4230|Mickey|Marketing|1022|2020-04-03|35000
4337|Donald|HR|1082|2020-04-10|55000
4773|Doraemon|Marketing|1042|2020-04-08|25000
```

Submitted By:

BHAGYA VINOD RANA

U19CS012