

U19CS076 DBMS ASSIGNMENT 3

KRITHIKHA BALAMURUGAN

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.

BEGIN TRANSACTION;

/* Create a table called STUDENT */

CREATE TABLE STUDENT(RollNo number(6) PRIMARY KEY, Name varchar(25),semester number(3),DOB date,AdmissionDate date,HostelRoom number(5));

/* Create few records in this table */

INSERT INTO STUDENT VALUES(111,'Krithikha',1,'2002/24/12','2021/1/12',222);

INSERT INTO STUDENT VALUES(412,'Lucy',4,'1999/1/24','2018/1/21',312);

INSERT INTO STUDENT VALUES(352,'Robert',3,'2000/12/12','2019/3/19',101);

INSERT INTO STUDENT VALUES(202,'Ashwin',2,'2001/6/14','2020/11/2',229);

INSERT INTO STUDENT VALUES(236,'Shivani',2,'2001/9/4','2020/1/29',272);

INSERT INTO STUDENT VALUES(135,'Kartik',1,'2002/1/4','2021/1/2',223);

INSERT INTO STUDENT VALUES(2866,'Frank',2,'2001/7/8','2020/3/12',270);

INSERT INTO STUDENT VALUES(491,'Hopper',4,'1999/2/3','2018/10/12',302);

INSERT INTO STUDENT VALUES(449,'Jane',4,'1999/5/4','2018/3/12',308);

INSERT INTO STUDENT VALUES(332,'Rohit',3,'2000/6/20','2019/9/22',262);

COMMIT;

Display the below details.

1. Student table with all columns and rows.

```
SELECT * FROM STUDENT;
```

Result

CPU Time: 0.00 sec(s), Memory: 4052 kilobyte(s)

```
111|Krithikha|1|2002/24/12|2021/1/12|222
412|Lucy|4|1999/1/24|2018/1/21|312
352|Robert|3|2000/12/12|2019/3/19|101
202|Ashwin|2|2001/6/14|2020/11/2|229
236|Shivani|2|2001/9/4|2020/1/29|272
135|Kartik|1|2002/1/4|2021/1/2|223
2866|Frank|2|2001/7/8|2020/3/12|270
491|Hopper|4|1999/2/3|2018/10/12|302
449|Jane|4|1999/5/4|2018/3/12|308
332|Rohit|3|2000/6/20|2019/9/22|262
```

2. Student details with columns Roll number and Name only.

```
SELECT RollNo,name FROM STUDENT ;
```

Result

CPU Time: 0.00 sec(s), Memory: 4268 kilobyte(s)

```
111|Krithikha
412|Lucy
352|Robert
202|Ashwin
236|Shivani
135|Kartik
2866|Frank
491|Hopper
449|Jane
332|Rohit
```

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

```
SELECT * FROM STUDENT where semester=4;
```

Result

CPU Time: 0.00 sec(s), Memory: 4180 kilobyte(s)

```
412|Lucy|4|1999/1/24|2018/1/21|312  
491|Hopper|4|1999/2/3|2018/10/12|302  
449|Jane|4|1999/5/4|2018/3/12|308
```

4. Student details of all the students whose roll number is between 100 to 200.

```
SELECT * FROM STUDENT where RollNo between 100 and 200;
```

Result

CPU Time: 0.00 sec(s), Memory: 4172 kilobyte(s)

```
111|Krithikha|1|2002/24/12|2021/1/12|222  
135|Kartik|1|2002/1/4|2021/1/2|223
```

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

```
SELECT * FROM STUDENT where DOB > '2001/1/1';
```

Result

CPU Time: 0.00 sec(s), Memory: 4152 kilobyte(s)

```
111|Krithikha|1|2002/24/12|2021/1/12|222  
202|Ashwin|2|2001/6/14|2020/11/2|229  
236|Shivani|2|2001/9/4|2020/1/29|272  
135|Kartik|1|2002/1/4|2021/1/2|223  
2866|Frank|2|2001/7/8|2020/3/12|270
```

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.

```
BEGIN TRANSACTION;
```

```
/* Create a table called Employee */
```

```
CREATE TABLE EMPLOYEE(EmpID number(6) PRIMARY KEY, Name varchar(25),Department  
varchar(30),ManagerID number(6),JoiningDate date,Salary number(8));
```

```
/* Inserting few records in this table */
```

```
INSERT INTO EMPLOYEE VALUES(111,'Krithikha','HR',12345,'2020/24/12',272000);
```

```
INSERT INTO EMPLOYEE VALUES(412,'Lucy','Marketing',23432,'2018/1/21',51200);
```

```
INSERT INTO EMPLOYEE VALUES(352,'Robert','Accounts',23321,'2019/3/19',120000);
```

```
INSERT INTO EMPLOYEE VALUES(202,'Shivani','Purchase',33212,'2020/11/2',42800);
```

```
INSERT INTO EMPLOYEE VALUES(236,'Ashwin','HR',19922,'2020/1/29',212000);
```

```
INSERT INTO EMPLOYEE VALUES(135,'Kartik','Service',99121,'2021/1/2',22300);
```

```
INSERT INTO EMPLOYEE VALUES(286,'Frank','Accounts',12342,'2019/3/12',90000);
```

```
INSERT INTO EMPLOYEE VALUES(491,'Hopper','Purchase',43255,'2018/10/12',30200);
```

```
INSERT INTO EMPLOYEE VALUES(449,'Jane','Service',77373,'2018/3/12',30800);
```

```
INSERT INTO EMPLOYEE VALUES(332,'Rohit','Marketing',29943,'2021/1/2',60200);
```

```
COMMIT;
```

Display the below details.

1. Employee table with all columns and rows.

/* Display all the records from the table */

```
SELECT * FROM EMPLOYEE;
```

Result

CPU Time: 0.00 sec(s), Memory: 4224 kilobyte(s)

```
111|Krithikha|HR|12345|2020/24/12|272000
412|Lucy|Marketing|23432|2018/1/21|51200
352|Robert|Accounts|23321|2019/3/19|120000
202|Shivani|Purchase|33212|2020/11/2|42800
236|Ashwin|HR|19922|2020/1/29|212000
135|Kartik|Service|99121|2021/1/2|22300
286|Frank|Accounts|12342|2019/3/12|90000
491|Hopper|Purchase|43255|2018/10/12|30200
449|Jane|Service|77373|2018/3/12|30800
332|Rohit|Marketing|29943|2021/1/2|60200
```

2. Employee details with columns Name and Department only.

```
SELECT Name,Department FROM EMPLOYEE ;
```

Result

executed in 0.652 sec(s)

```
Krithikha|HR
Lucy|Marketing
Robert|Accounts
Shivani|Purchase
Ashwin|HR
Kartik|Service
Frank|Accounts
Hopper|Purchase
Jane|Service
Rohit|Marketing
```

3. Employee details of all the Employees who are in HR department.

SELECT * FROM EMPLOYEE where Department='HR';

Result

executed in 0.975 sec(s)

```
111|Krithika|HR|12345|2020/24/12|272000
236|Ashwin|HR|19922|2020/1/29|212000
|
```

4. Employee details of all the Employees whose salary is between 50000 to 100000.

SELECT * FROM EMPLOYEE where salary between 50000 and 100000;

Result

executed in 0.92 sec(s)

```
412|Lucy|Marketing|23432|2018/1/21|51200
286|Frank|Accounts|12342|2019/3/12|90000
332|Rohit|Marketing|29943|2021/1/2|60200
|
```

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

SELECT * FROM EMPLOYEE where JoiningDate > '2020/1/1';

Result

executed in 0.93 sec(s)

```
111|Krithika|HR|12345|2020/24/12|272000
202|Shivani|Purchase|33212|2020/11/2|42800
236|Ashwin|HR|19922|2020/1/29|212000
135|Kartik|Service|99121|2021/1/2|22300
332|Rohit|Marketing|29943|2021/1/2|60200
|
```