# DBMS Assignment 3

1. 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.

Display the below details.

1. Student table with all columns and rows.

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

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

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

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

Source Code:

```
CREATE TABLE Student(
RollNo NUMBER(6) Primary key,
Name VARCHAR(25) NOT NULL,
Semester NUMBER(3)NOT NULL,
DOB DATE NOT NULL,
AdmissionDate DATE NOT NULL,
HostelRoom NUMBER(5)
);

INSERT INTO Student VALUES(1,'Mitali', 3, '2001-10-11', '2020-2-13',234);
INSERT INTO Student VALUES(2,'Shanaya',4, '2001-5-12', '2019-2-33',134);
INSERT INTO Student VALUES(3,'Priyanka',4, '2001-6-7', '2019-11-11',345);
INSERT INTO Student VALUES(4,'Aarna',1, '2002-11-11', '2020-4-12',278);
INSERT INTO Student VALUES(5,'Ruchi',5, '2000-10-8', '2019-5-11',378);
INSERT INTO Student VALUES(6,'Suchi',7, '2001-11-11','2018-6-22',188);
INSERT INTO Student VALUES(7,'Tina',4, '2001-3-2','2019-10-2',199);
INSERT INTO Student VALUES(8,'Anita',2, '2002-3-11','2020-9-11',222);
INSERT INTO Student VALUES(9,'Sunita',6, '2000-5-7','2019-4-2',213);
INSERT INTO Student VALUES(10,'Suman',8, '1999-1-5','2018-9-27',312);
```

SELECT * FROM Student;

```
1|Mitali|3|2001-10-11|2020-2-13|234
2|Shanaya|4|2001-5-12|2019-2-33|134
3|Priyanka|4|2001-6-7|2019-11-11|345
4|Aarna|1|2002-11-11|2020-4-12|278
5|Ruchi|5|2000-10-8|2019-5-11|378
6|Suchi|7|2001-11-11|2018-6-22|188
7|Tina|4|2001-3-2|2019-10-2|199
8|Anita|2|2002-3-11|2020-9-11|222
9|Sunita|6|2000-5-7|2019-4-2|213
10|Suman|8|1999-1-5|2018-9-27|312
```

SELECT RollNo, Name FROM Student

```
1|Mitali
2|Shanaya
3|Priyanka
4|Aarna
5|Ruchi
6|Suchi
7|Tina
8|Anita
9|Sunita
10|Suman
```

SELECT * FROM Student WHERE Semester = 4

```
2|Shanaya|4|2001-5-12|2019-2-33|134
3|Priyanka|4|2001-6-7|2019-11-11|345
7|Tina|4|2001-3-2|2019-10-2|199
```

SELECT * FROM Student WHERE HostelRoom BETWEEN 100 AND 200

```
2|Shanaya|4|2001-5-12|2019-2-33|134
6|Suchi|7|2001-11-11|2018-6-22|188
7|Tina|4|2001-3-2|2019-10-2|199
```

SELECT * FROM Student WHERE DOB>'2001-1-1'

```
1|Mitali|3|2001-10-11|2020-2-13|234
2|Shanaya|4|2001-5-12|2019-2-33|134
3|Priyanka|4|2001-6-7|2019-11-11|345
4|Aarna|1|2002-11-11|2020-4-12|278
6|Suchi|7|2001-11-11|2018-6-22|188
7|Tina|4|2001-3-2|2019-10-2|199
8|Anita|2|2002-3-11|2020-9-11|222
```

2. 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.

Display the below details.

1. Employee table with all columns and rows.

2. Employee details with columns Name and Department only.

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

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

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

Source Code:

```
CREATE TABLE Employee(
EmpID Number (6) Primary key NOT NULL,
Name varchar (25) NOT NULL,
Department varchar (30) NOT NULL,
Manager ID Number (6) NOT NULL,
JoiningDate Date NOT NULL,
Salary Number (8) NOT NULL
);


INSERT INTO Employee VALUES(56,'Mitali','HR',101, '2020-2-13',51000);
INSERT INTO Employee VALUES(57,'Shanaya','Financial',102,'2019-2-33',70000);
INSERT INTO Employee VALUES(58,'Priyanka','HR',103, '2019-11-11',69000);
INSERT INTO Employee VALUES(59,'Aarna','Stock',104, '2020-4-12',150000);
INSERT INTO Employee VALUES(60,'Ruchi','Development',105, '2019-5-11',89000);
INSERT INTO Employee VALUES(61,'Suchi','HR',106,'2018-6-22',300000);
INSERT INTO Employee VALUES(62,'Tina','Peon', 107,'2020-10-2',250000);
```

INSERT INTO Employee VALUES(63,'Anita','Financial',108,'2020-9-11',110000);

INSERT INTO Employee VALUES(64,'Sunita','HR',109,'2019-4-2',60000);

INSERT INTO Employee VALUES(65,'Suman','Technical',110,'2018-9-27',40000);

SELECT * FROM Employee;

```
56|Mitali|HR|101|2020-2-13|51000
57|Shanaya|Financial|102|2019-2-33|70000
58|Priyanka|HR|103|2019-11-11|69000
59|Aarna|Stock|104|2020-4-12|150000
60|Ruchi|Development|105|2019-5-11|89000
61|Suchi|HR|106|2018-6-22|300000
62|Tina|Peon|107|2020-10-2|250000
63|Anita|Financial|108|2020-9-11|110000
64|Sunita|HR|109|2019-4-2|60000
65|Suman|Technical|110|2018-9-27|40000
```

SELECT Name, Department FROM Employee

```
Mitali|HR
Shanaya|Financial
Priyanka|HR
Aarna|Stock
Ruchi|Development
Suchi|HR
Tina|Peon
Anita|Financial
Sunita|HR
Suman|Technical
```

SELECT * FROM Employee WHERE Department = 'HR'

```
56|Mitali|HR|101|2020-2-13|51000
58|Priyanka|HR|103|2019-11-11|69000
61|Suchi|HR|106|2018-6-22|300000
64|Sunita|HR|109|2019-4-2|60000
```

SELECT * FROM Employee WHERE Salary BETWEEN 50000 AND 100000

```
56|Mitali|HR|101|2020-2-13|51000
57|Shanaya|Financial|102|2019-2-33|70000
58|Priyanka|HR|103|2019-11-11|69000
60|Ruchi|Development|105|2019-5-11|89000
64|Sunita|HR|109|2019-4-2|60000
```

SELECT * FROM Employee WHERE JoiningDate>'2020-1-1'

```
56|Mitali|HR|101|2020-2-13|51000
59|Aarna|Stock|104|2020-4-12|150000
62|Tina|Peon|107|2020-10-2|250000
63|Anita|Financial|108|2020-9-11|110000
```