

CHEKURI KARTHIK VARMA

20BCB0043

VIT VELLORE

Modern Application Development (Java Spring Boot)

ASSIGNMENT – 2

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Q. Practise create, update, delete commands in MySQL.

```
CREATE TABLE student_grade( regno CHAR(9) PRIMARY KEY, name VARCHAR(20) NOT NULL, mark1 INT, mark2 INT, mark3 INT );
```

```
INSERT INTO student_grade VALUES('20BCB0043','Karthik',10,23,17);
```

```
INSERT INTO student_grade VALUES('20BCB0121','Shubham',55,71,59);
```

```
INSERT INTO student_grade VALUES('20BCB0148','Chidambaram',49,69,60);
```

```
INSERT INTO student_grade VALUES('20BCB0070','Priya',52,91,92);
```

```
INSERT INTO student_grade VALUES('20BCB0025','Vishnu',68,78,58);
```

```
SELECT * FROM STUDENT_GRADE;
```

1	SELECT * FROM STUDENT_GRADE;
2	
3	
4	

REGNO	NAME	MARK1	MARK2	MARK3
20BCB0043	Karthik	10	23	17
20BCB0121	Shubham	55	71	59
20BCB0148	Chidambaram	49	69	60
20BCB0070	Priya	52	91	92
20BCB0025	Vishnu	68	78	58

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5 rows selected.

Alter table to add field total, result.

```
ALTER TABLE student_grade ADD Total INT;
```

```
ALTER TABLE student_grade ADD Result CHAR(1);
```

```
/* Pass Criteria : total >= 50% of Max. Marks */
```

```
UPDATE student_grade SET Total = mark1+mark2+mark3;
```

```
UPDATE student_grade SET Result = 'P' where Total >= 150;
```

```
UPDATE student_grade SET Result = 'F' where Total < 150;
```

1	SELECT * FROM STUDENT_GRADE;
2	
3	
4	

REGNO	NAME	MARK1	MARK2	MARK3	TOTAL	RESULT
20BCB0043	Karthik	10	23	17	50	F
20BCB0121	Shubham	55	71	59	185	P
20BCB0148	Chidambaram	49	69	60	178	P
20BCB0070	Priya	52	91	92	235	P
20BCB0025	Vishnu	68	78	58	204	P

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5 rows selected.

List the names of students who have failed.

```
SELECT name FROM student_grade WHERE Result = 'F';
```

1	SELECT name FROM student_grade WHERE Result = 'F';
2	
3	
4	

NAME
Karthik

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Delete records of students who have failed in all three

DELETE FROM student_grade WHERE mark1 < 50 and mark2 < 50 and mark3 <50;

1	SELECT * FROM STUDENT_GRADE;
2	
3	
4	

REGNO	NAME	MARK1	MARK2	MARK3	TOTAL	RESULT
20BCB0121	Shubham	55	71	59	185	P
20BCB0148	Chidambaram	49	69	60	178	P
20BCB0070	Priya	62	91	92	235	P
20BCB0025	Vishnu	68	78	58	204	P

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4 rows selected.