

Spring AU Feb Batch 1

Ayushi Garg

```
mysql> create database Student;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| student |
| sys |
| world |
+-----+
7 rows in set (0.02 sec)

mysql> use Student;
Database changed
mysql> create table StudentBasicInformation(
  -> StudentName VARCHAR(20) not null,
  -> StudentSurname VARCHAR(20) not null,
  -> StudentRollNo VARCHAR(20) not null primary key,
  -> StudentAddress VARCHAR(20) not null,
  -> ScholarshipOpted VARCHAR(4) not null,
  -> StudentMobNo VARCHAR(10) not null,
  -> StudentAge VARCHAR(2) not null)
  -> ;
Query OK, 0 rows affected (0.08 sec)

mysql> desc StudentBasicInformation;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| StudentName | varchar(20) | NO | | NULL | |
| StudentSurname | varchar(20) | NO | | NULL | |
| StudentRollNo | varchar(20) | NO | PRI | NULL | |
| StudentAddress | varchar(20) | NO | | NULL | |
| ScholarshipOpted | varchar(4) | NO | | NULL | |
| StudentMobNo | varchar(10) | NO | | NULL | |
| StudentAge | varchar(2) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.01 sec)

mysql>
```

```
mysql> create table StudentAdmissionPaymentDetails(
  -> StudentRollNo VARCHAR(20) not null primary key,
  -> AmountPaid VARCHAR(10) not null,
  -> AmountBalance VARCHAR(10) not null,
  -> StudentFeePaid VARCHAR(4) not null,
  -> FeesTakenBy VARCHAR(20) not null,
  -> StudentPaymentMode VARCHAR(10) not null);
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> desc StudentAdmissionPaymentDetails;
```

Field	Type	Null	Key	Default	Extra
StudentRollNo	varchar(20)	NO	PRI	NULL	
AmountPaid	varchar(10)	NO		NULL	
AmountBalance	varchar(10)	NO		NULL	
StudentFeePaid	varchar(4)	NO		NULL	
FeesTakenBy	varchar(20)	NO		NULL	
StudentPaymentMode	varchar(10)	NO		NULL	

6 rows in set (0.02 sec)

```
mysql> create table StudentSubjectInformation(
  -> StudentRollNo VARCHAR(20) not null primary key,
  -> SubjectOpted VARCHAR(20) not null,
  -> SubjectTotalMarks VARCHAR(3) not null,
  -> SubjectObtainedMarks VARCHAR(3) not null,
  -> StudentMarksPercentage VARCHAR(10));
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> desc StudentSubjectInformation;
```

Field	Type	Null	Key	Default	Extra
StudentRollNo	varchar(20)	NO	PRI	NULL	
SubjectOpted	varchar(20)	NO		NULL	
SubjectTotalMarks	varchar(3)	NO		NULL	
SubjectObtainedMarks	varchar(3)	NO		NULL	
StudentMarksPercentage	varchar(10)	YES		NULL	

5 rows in set (0.02 sec)

```
mysql>
```

```
mysql> create table StudentScholarshipInformation(
-> StudentRollNo VARCHAR(20) not null,
-> ScholarshipName VARCHAR(20) not null,
-> ScholarshipDesc VARCHAR(20) not null,
-> ScholarshipAmount VARCHAR(10) not null,
-> ScholarshipCategory VARCHAR(20));
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> desc StudentScholarshipInformation;
```

Field	Type	Null	Key	Default	Extra
StudentRollNo	varchar(20)	NO		NULL	
ScholarshipName	varchar(20)	NO		NULL	
ScholarshipDesc	varchar(20)	NO		NULL	
ScholarshipAmount	varchar(10)	NO		NULL	
ScholarshipCategory	varchar(20)	YES		NULL	

5 rows in set (0.02 sec)

2,3,4.

```
mysql> insert into studentadmissionpaymentdetails values (1,20,480,'Y','John','Online');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (1,30,470,'N','John','Online');
ERROR 1062 (23000): Duplicate entry '1' for key 'studentadmissionpaymentdetails.PRIMARY'
mysql> insert into studentadmissionpaymentdetails values (2,30,470,'N','John','Online');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (3,50,450,'N','John','Online');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (4,100,400,'Y','John','Online');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (5,200,300,'Y','John','Cash');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (6,100,400,'Y','John','Cash');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (6,150,350,'N','John','Cash');
ERROR 1062 (23000): Duplicate entry '6' for key 'studentadmissionpaymentdetails.PRIMARY'
mysql> insert into studentadmissionpaymentdetails values (7,150,350,'N','John','Cash');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (8,30,470,'N','John','Cash');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (9,150,350,'Y','John','Online');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentadmissionpaymentdetails values (10,150,350,'Y','John','Online');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from studentadmissionpaymentdetails;
```

StudentRollNo	AmountPaid	AmountBalance	StudentFeePaid	FeesTakenBy	StudentPaymentMode
1	20	480	Y	John	Online
10	150	350	Y	John	Online
2	30	470	N	John	Online
3	50	450	N	John	Online
4	100	400	Y	John	Online
5	200	300	Y	John	Cash
6	100	400	Y	John	Cash
7	150	350	N	John	Cash
8	30	470	N	John	Cash
9	150	350	Y	John	Online

10 rows in set (0.00 sec)

```
mysql> insert into studentbasicinformation values ('Ayushi','Garg',1,'Jaipur','Y',9999988888,21);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentbasicinformation values ('Ayushi','Gupta',2,'Delhi','Y',9988998899,22);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentbasicinformation values ('Simran','Singh',3,'Pune','N',90022334400,21);
ERROR 1406 (22001): Data too long for column 'StudentMobNo' at row 1
mysql> insert into studentbasicinformation values ('Simran','Singh',3,'Pune','N',9002233440,21);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into studentbasicinformation values ('Kajal','Verma',4,'Chennai','N',8768765432,20);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentbasicinformation values ('Rahul','Joshi',5,'Chennai','Y',7742775566,22);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into studentbasicinformation values ('Amay','Bansal',6,'Jaipur','Y',9887098870,22);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentbasicinformation values ('Piyush','Bhat',7,'Delhi','Y',7788977889,21);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into studentbasicinformation values ('Manju','Agarwal',8,'Bhopal','N',8806688066,21);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into studentbasicinformation values ('Pradeep','Kumar',9,'Ranchi','Y',7742773522,21);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into studentbasicinformation values ('Rishi','Garg',10,'Ranchi','Y',6907869078,21);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from studentbasicinformation;
```

StudentName	StudentSurname	StudentRollNo	StudentAddress	ScholarshipOpted	StudentMobNo	StudentAge
Ayushi	Garg	1	Jaipur	Y	9999988888	21
Rishi	Garg	10	Ranchi	Y	6907869078	21
Ayushi	Gupta	2	Delhi	Y	9988998899	22
Simran	Singh	3	Pune	N	9002233440	21
Kajal	Verma	4	Chennai	N	8768765432	20
Rahul	Joshi	5	Chennai	Y	7742775566	22
Amay	Bansal	6	Jaipur	Y	9887098870	22
Piyush	Bhat	7	Delhi	Y	7788977889	21
Manju	Agarwal	8	Bhopal	N	8806688066	21
Pradeep	Kumar	9	Ranchi	Y	7742773522	21

10 rows in set (0.00 sec)

```
mysql> insert into studentscholarshipinformation values (1,'SQL','Advance',50000,'Allocated');
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentscholarshipinformation values (2,'SQL','Advance',50000,'Allocated');
Query OK, 1 row affected (0.00 sec)

mysql> insert into studentscholarshipinformation values (3,'JAVA','Advance',60000,'Notallocated');
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentscholarshipinformation values (4,'JAVA','Beginer',60500,'Allocated');
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentscholarshipinformation values (5,'JAVA','Beginer',60500,'Notallocated');
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentscholarshipinformation values (6,'SQL','Beginer',40000,'Allocated');
Query OK, 1 row affected (0.00 sec)

mysql> insert into studentscholarshipinformation values (7,'Python','Advance',70000,'Allocated');
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentscholarshipinformation values (8,'Python','Advance',70000,'Allocated');
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentscholarshipinformation values (9,'Python','Advance',70000,'Notallocated');
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentscholarshipinformation values (10,'Python','Advance',70000,'Notallocated');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from studentscholarshipinformation;
+-----+-----+-----+-----+-----+
| StudentRollNo | ScholarshipName | ScholarshipDesc | ScholarshipAmount | ScholarshipCategory |
+-----+-----+-----+-----+-----+
| 1             | SQL             | Advance         | 50000             | Allocated           |
| 2             | SQL             | Advance         | 50000             | Allocated           |
| 3             | JAVA            | Advance         | 60000             | Notallocated        |
| 4             | JAVA            | Beginer         | 60500             | Allocated           |
| 5             | JAVA            | Beginer         | 60500             | Notallocated        |
| 6             | SQL             | Beginer         | 40000             | Allocated           |
| 7             | Python          | Advance         | 70000             | Allocated           |
| 8             | Python          | Advance         | 70000             | Allocated           |
| 9             | Python          | Advance         | 70000             | Notallocated        |
| 10            | Python          | Advance         | 70000             | Notallocated        |
+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> insert into studentsubjectinformation values (1,'Computer',100,40,0.40);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (2,'Computer',100,50,0.50);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (3,'Computer',100,42,0.42);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (4,'Maths',100,80,0.80);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (5,'Maths',100,85,0.85);
Query OK, 1 row affected (0.00 sec)

mysql> insert into studentsubjectinformation values (6,'Maths',100,90,0.90);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (7,'Maths',100,10,0.10);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (8,'English',100,15,0.15);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (9,'English',100,62,0.62);
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentsubjectinformation values (10,'English',100,70,0.70);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from studentsubjectinformation;
```

StudentRollNo	SubjectOpted	SubjectTotalMarks	SubjectObtainedMarks	StudentMarksPercentage
1	Computer	100	40	0.40
10	English	100	70	0.70
2	Computer	100	50	0.50
3	Computer	100	42	0.42
4	Maths	100	80	0.80
5	Maths	100	85	0.85
6	Maths	100	90	0.90
7	Maths	100	10	0.10
8	English	100	15	0.15
9	English	100	62	0.62

```
10 rows in set (0.00 sec)
```

5,6.

```
mysql> update studentbasicinformation set studentaddress='Goa' where studentrollno=2;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update studentbasicinformation set studentaddress='Goa' where studentrollno=4;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update studentbasicinformation set studentaddress='Goa' where studentrollno=6;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update studentbasicinformation set studentaddress='Goa' where studentrollno=8;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update studentbasicinformation set studentaddress='Goa' where studentrollno=10;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from studentbasicinformation;
+-----+-----+-----+-----+-----+-----+-----+
| StudentName | StudentSurname | StudentRollNo | StudentAddress | ScholarshipOpted | StudentMobNo | StudentAge |
+-----+-----+-----+-----+-----+-----+-----+
| Ayushi      | Garg            | 1              | Jaipur         | Y                 | 9999988888   | 21          |
| Rishi       | Garg            | 10             | Goa            | Y                 | 6907869078   | 21          |
| Ayushi      | Gupta           | 2              | Goa            | Y                 | 9988998899   | 22          |
| Simran      | Singh           | 3              | Pune           | N                 | 9002233440   | 21          |
| Kajal       | Verma           | 4              | Goa            | N                 | 8768765432   | 20          |
| Rahul       | Joshi           | 5              | Chennai        | Y                 | 7742775566   | 22          |
| Amay        | Bansal          | 6              | Goa            | Y                 | 9887098870   | 22          |
| Piyush      | Bhat            | 7              | Delhi          | Y                 | 7788977889   | 21          |
| Manju       | Agarwal         | 8              | Goa            | N                 | 8806688066   | 21          |
| Pradeep     | Kumar           | 9              | Ranchi         | Y                 | 7742773522   | 21          |
+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

7.

```
mysql> select * from studentscholarshipinformation where scholarshipamount > 50000;
+-----+-----+-----+-----+-----+
| StudentRollNo | ScholarshipName | ScholarshipDesc | ScholarshipAmount | ScholarshipCategory |
+-----+-----+-----+-----+-----+
| 3              | JAVA            | Advance         | 60000             | Notallocated        |
| 4              | JAVA            | Begineer        | 60500             | Allocated           |
| 5              | JAVA            | Begineer        | 60500             | Notallocated        |
| 7              | Python          | Advance         | 70000             | Allocated           |
| 8              | Python          | Advance         | 70000             | Allocated           |
| 9              | Python          | Advance         | 70000             | Notallocated        |
| 10             | Python          | Advance         | 70000             | Notallocated        |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

8.

```
mysql> select * from studentscholarshipinformation where scholarshipcategory='Notallocated';
```

StudentRollNo	ScholarshipName	ScholarshipDesc	ScholarshipAmount	ScholarshipCategory
3	JAVA	Advance	60000	Notallocated
5	JAVA	Beginer	60500	Notallocated
9	Python	Advance	70000	Notallocated
10	Python	Advance	70000	Notallocated

```
4 rows in set (0.00 sec)
```

9.

```
mysql> create procedure percent_update()
-> begin
-> update studentsubjectinformation set StudentMarksPercentage = (SubjectObtainedMarks/SubjectTotalMarks)*100;
-> end
-> //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> call percent_update()
-> //
Query OK, 10 rows affected (0.01 sec)
```

```
mysql> select * from studentsubjectinformation;
-> //
```

StudentRollNo	SubjectOpted	SubjectTotalMarks	SubjectObtainedMarks	StudentMarksPercentage
1	Computer	100	40	40
10	English	100	70	70
2	Computer	100	50	50
3	Computer	100	42	42
4	Maths	100	80	80
5	Maths	100	85	85
6	Maths	100	90	90
7	Maths	100	10	10
8	English	100	15	15
9	English	100	62	62

```
10 rows in set (0.00 sec)

mysql>
```


10.

```
mysql> create procedure fill_category()
-> begin
-> update studentsubjectinformation inner join studentscholarshipinformation on studentscholarshipinformation.StudentRollNo = studentsubjectinformation.StudentRollNo set ScholarshipCategory = 'Allocated' where StudentMarksPercentage>=80;
-> update studentsubjectinformation inner join studentscholarshipinformation on studentscholarshipinformation.StudentRollNo = studentsubjectinformation.StudentRollNo set ScholarshipCategory = 'Partial-Allocated' where StudentMarksPercentage>=50 and StudentMarksPercentage<80;
-> update studentsubjectinformation inner join studentscholarshipinformation on studentscholarshipinformation.StudentRollNo = studentsubjectinformation.StudentRollNo set ScholarshipCategory = 'Not-Allocated' where StudentMarksPercentage<50;
-> end
-> //
Query OK, 0 rows affected (0.00 sec)

mysql> call fill_category();
-> //
Query OK, 4 rows affected (0.02 sec)

mysql> select * from studentscholarshipinformation;
-> //
```

StudentRollNo	ScholarshipName	ScholarshipDesc	ScholarshipAmount	ScholarshipCategory
1	SQL	Advance	50000	Not-Allocated
2	SQL	Advance	50000	Partial-Allocated
3	JAVA	Advance	60000	Not-Allocated
4	JAVA	Beginer	60500	Allocated
5	JAVA	Beginer	60500	Allocated
6	SQL	Beginer	40000	Allocated
7	Python	Advance	70000	Not-Allocated
8	Python	Advance	70000	Not-Allocated
9	Python	Advance	70000	Partial-Allocated
10	Python	Advance	70000	Partial-Allocated

```
10 rows in set (0.00 sec)
```

11.

```
mysql> create view `DetailsOfBalanceAmount` as select a.StudentRollNo, a.StudentName, a.StudentSurname, b.AmountBalance from studentbasicinformation as a inner join studentadmissionpaymentdetails as b on a.StudentRollNo =b.StudentRollNo;
-> //
Query OK, 0 rows affected (0.01 sec)

mysql> select * from `DetailsOfBalanceAmount`;
-> //
```

StudentRollNo	StudentName	StudentSurname	AmountBalance
1	Ayushi	Garg	480
10	Rishi	Garg	350
2	Ayushi	Gupta	470
3	Simran	Singh	450
4	Kajal	Verma	400
5	Rahul	Joshi	300
6	Amay	Bansal	400
7	Piyush	Bhat	350
8	Manju	Agarwal	470
9	Pradeep	Kumar	350

```
10 rows in set (0.00 sec)

mysql>
```

12.

```
mysql> select * from studentbasicinformation inner join studentscholarshipinformation on studentbasicinformation.StudentRollNo = studentscholarshipinformation.StudentRollNo where ScholarshipCategory = 'Not-Allocated';
-> //
```

StudentName	StudentSurname	StudentRollNo	StudentAddress	ScholarshipOpted	StudentMobNo	StudentAge	StudentRollNo	ScholarshipName	ScholarshipDesc	ScholarshipAmount	ScholarshipCategory
Ayushi	Garg	1	Jaipur	Y	9999988888	21	1	SQL	Advance	50000	Not-Allocated
Simran	Singh	3	Pune	N	9002233440	21	3	JAVA	Advance	60000	Not-Allocated
Piyush	Bhat	7	Delhi	Y	7788977889	21	7	Python	Advance	70000	Not-Allocated
Manju	Agarwal	8	Goa	N	8806688066	21	8	Python	Advance	70000	Not-Allocated

```
4 rows in set (0.00 sec)

mysql>
```

13.

```
mysql> create procedure balance (in rollno varchar(20))
-> begin
-> select AmountBalance from studentadmissionpaymentdetails where StudentRollNo = rollno;
-> end
-> //
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> call balance(3);
-> //
```

AmountBalance
450

```
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql>
```

14.

```
mysql> select * from studentbasicinformation where StudentRollNo in (select StudentRollNo from studentsubjectinformation order by StudentMarksPercentage desc limit 5);
-> //
ERROR 1235 (42000): This version of MySQL doesn't yet support 'LIMIT & IN/ALL/ANY/SOME subquery'
mysql>
```

15.

Natural Join –

```
mysql> select * from studentsubjectinformation natural join studentscholarshipinformation where SubjectOpted
='Maths';
-> //
```

StudentRollNo	SubjectOpted	SubjectTotalMarks	SubjectObtainedMarks	StudentMarksPercentage	ScholarshipName	ScholarshipDesc	ScholarshipAmount	ScholarshipCategory
4	Maths	100	80	80				JAVA
5	Maths	100	85	85				JAVA
6	Maths	100	90	90				SQL
7	Maths	100	10	10				Python

4 rows in set (0.00 sec)

Inner join -

```
mysql> select * from studentbasicinformation inner join studentscholarshipinformation on studentbasicinforma
tion.StudentRollNo = studentscholarshipinformation.StudentRollNo where ScholarshipCategory = 'Not-Allocated'
;
-> //
```

StudentName	StudentSurname	StudentRollNo	StudentAddress	ScholarshipOpted	StudentMobNo	StudentAge	StudentRollNo	ScholarshipName	ScholarshipDesc	ScholarshipAmount	ScholarshipCategory
Ayushi	Garg	1	Jaipur	Y	9999988888	21					Not-Allocated
Simran	Singh	3	Pune	N	9002233440	21					Not-Allocated
Piyush	Bhat	7	Delhi	Y	7788977889	21					Not-Allocated
Manju	Agarwal	8	Goa	N	8806688066	21					Not-Allocated

4 rows in set (0.00 sec)

```
mysql>
```

Full join -

```
mysql> select * from studentsubjectinformation full join studentscholarshipinformation where SubjectOpted='Maths';
-> //
```

StudentRollNo	SubjectOpted	SubjectTotalMarks	SubjectObtainedMarks	StudentMarksPercentage	StudentRollNo	ScholarshipName	ScholarshipDesc	ScholarshipAmount	ScholarshipCategory
7	Maths	100	10	10	1				
6	SQL	Advance	50000	Not-Allocated					
6	Maths	100	90	90	1				
5	SQL	Advance	50000	Not-Allocated					
5	Maths	100	85	85	1				
4	SQL	Advance	50000	Not-Allocated					
4	Maths	100	80	80	1				
7	SQL	Advance	50000	Not-Allocated					
7	Maths	100	10	10	2				
6	SQL	Advance	50000	Partial-Allocated					
6	Maths	100	90	90	2				
5	SQL	Advance	50000	Partial-Allocated					
5	Maths	100	85	85	2				
4	SQL	Advance	50000	Partial-Allocated					
4	Maths	100	80	80	2				
7	SQL	Advance	50000	Partial-Allocated					
7	Maths	100	10	10	3				

16.

TRUNCATE - TRUNCATE SQL query removes all rows from a table, without logging the individual row deletions. TRUNCATE is faster than the DELETE query.

DELETE - SQL DELETE query deletes all records from a database table.

DROP - DROP table query removes one or more table definitions and all data, indexes, triggers, constraints, and permission specifications for those tables.

17.

```
mysql> select ScholarshipCategory,count(*) as Total from studentscholarshipinformation group by ScholarshipCategory;
-> //
```

ScholarshipCategory	Total
Not-Allocated	4
Partial-Allocated	3
Allocated	3

3 rows in set (0.00 sec)

```
mysql>
```

18.

```
mysql> select ScholarshipCategory,count(*) as Total from studentscholarshipinformation group by ScholarshipC
category order by Total desc limit 1;
-> //
```

ScholarshipCategory	Total
Not-Allocated	4

```
1 row in set (0.00 sec)
```

19.

```
mysql> select * from `Details`;
-> //
```

StudentName	StudentRollNo	StudentMarksPercentage	ScholarshipAmount
Ayushi	1	40	50000
Ayushi	2	50	50000
Simran	3	42	60000
Kajal	4	80	60500
Rahul	5	85	60500
Amay	6	90	40000
Piyush	7	10	70000
Manju	8	15	70000
Pradeep	9	62	70000
Rishi	10	70	70000

```
10 rows in set (0.00 sec)
```

```
mysql> select max(StudentMarksPercentage),max(ScholarshipAmount) from `Details`;
-> //
```

max(StudentMarksPercentage)	max(ScholarshipAmount)
90	70000

```
1 row in set (0.00 sec)
```

20.

Trigger –

In MySQL, a trigger is a stored program invoked automatically in response to an event such as insert, update, or delete that occurs in the associated table. For example, you can define a trigger that is invoked automatically before a new row is inserted into a table.

Procedure -

A procedure (often called a stored procedure) is a collection of pre-compiled SQL statements stored inside the database. It is a subroutine or a subprogram in the regular computing language. A procedure always contains a name, parameter lists, and SQL statements.

View –

A view is a database object that has no values. Its contents are based on the base table. It contains rows and columns similar to the real table.

Function –

A function always returns a value using the return statement. The function can be used in SQL queries.