

1. Create Student Database

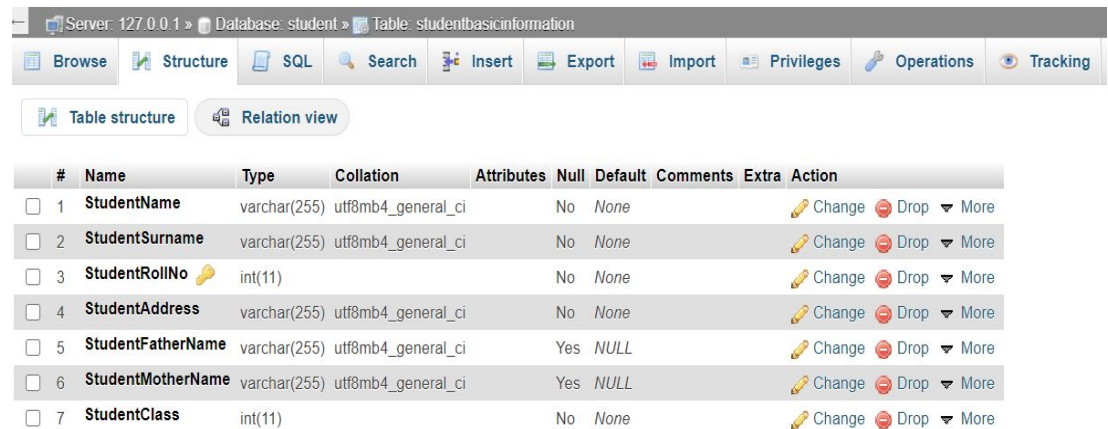
Done using MySQL UI.

2. Create the following table under the Student Database:

a) StudentBasicInformation-

- i) **Command** - create table StudentBasicInformation(StudentName varchar(255) NOT NULL, StudentSurname varchar(255) NOT NULL, StudentRollNo INT PRIMARY KEY, StudentAddress varchar(255) NOT NULL, StudentFatherName varchar(255), StudentMotherName varchar(255), StudentClass INT NOT NULL);

ii) Image -



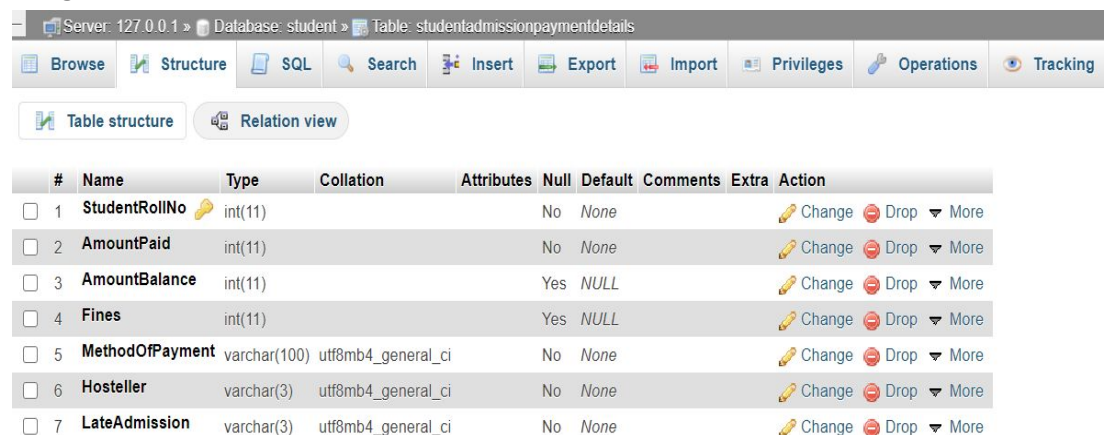
The screenshot shows the MySQL UI interface for the 'student' database. The table 'studentbasicinformation' is selected. The 'Table structure' tab is active, displaying the following table structure:

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|---|-------------------|--------------|--------------------|------------|------|---------|----------|-------|------------------|
| 1 | StudentName | varchar(255) | utf8mb4_general_ci | | No | None | | | Change Drop More |
| 2 | StudentSurname | varchar(255) | utf8mb4_general_ci | | No | None | | | Change Drop More |
| 3 | StudentRollNo | int(11) | | | No | None | | | Change Drop More |
| 4 | StudentAddress | varchar(255) | utf8mb4_general_ci | | No | None | | | Change Drop More |
| 5 | StudentFatherName | varchar(255) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 6 | StudentMotherName | varchar(255) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 7 | StudentClass | int(11) | | | No | None | | | Change Drop More |

b) StudentAdmissionPaymentDetails-

- i) **Command**- create table StudentAdmissionPaymentDetails(StudentRollNo INT PRIMARY KEY, AmountPaid INT NOT NULL, AmountBalance INT, Fines INT, MethodOfPayment varchar(100) NOT NULL, Hosteller varchar(3) NOT NULL, LateAdmission varchar(3) NOT NULL);

ii) Image-



The screenshot shows the MySQL UI interface for the 'student' database. The table 'studentadmissionpaymentdetails' is selected. The 'Table structure' tab is active, displaying the following table structure:

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|---|-----------------|--------------|--------------------|------------|------|---------|----------|-------|------------------|
| 1 | StudentRollNo | int(11) | | | No | None | | | Change Drop More |
| 2 | AmountPaid | int(11) | | | No | None | | | Change Drop More |
| 3 | AmountBalance | int(11) | | | Yes | NULL | | | Change Drop More |
| 4 | Fines | int(11) | | | Yes | NULL | | | Change Drop More |
| 5 | MethodOfPayment | varchar(100) | utf8mb4_general_ci | | No | None | | | Change Drop More |
| 6 | Hosteller | varchar(3) | utf8mb4_general_ci | | No | None | | | Change Drop More |
| 7 | LateAdmission | varchar(3) | utf8mb4_general_ci | | No | None | | | Change Drop More |

c) StudentSubjectInformation

- i) **Command**-create table StudentSubjectInformation(SubjectOpted varchar(255) NOT NULL, StudentRollNo INT PRIMARY KEY, SubjectTotalMarks INT NOT NULL, SubjectObtainedMarks INT NOT NULL, StudentMarksPercentage FLOAT(5,2) NOT NULL, IsPassed varchar(7) NOT NULL);

ii) **Image**-

The screenshot shows the 'Table structure' view for the 'studentsubjectinformation' table. The table has 6 columns: SubjectOpted (varchar(255)), StudentRollNo (int(11) PRIMARY KEY), SubjectTotalMarks (int(11)), SubjectObtainedMarks (int(11)), StudentMarksPercentage (float(5,2)), and IsPassed (varchar(7)). All columns are NOT NULL and have a default value of None. The table is located in the 'student' database on server '127.0.0.1'.

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|---|------------------------|--------------|--------------------|------------|------|---------|----------|-------|------------------|
| 1 | SubjectOpted | varchar(255) | utf8mb4_general_ci | | No | None | | | Change Drop More |
| 2 | StudentRollNo | int(11) | | | No | None | | | Change Drop More |
| 3 | SubjectTotalMarks | int(11) | | | No | None | | | Change Drop More |
| 4 | SubjectObtainedMarks | int(11) | | | No | None | | | Change Drop More |
| 5 | StudentMarksPercentage | float(5,2) | | | No | None | | | Change Drop More |
| 6 | IsPassed | varchar(7) | utf8mb4_general_ci | | No | None | | | Change Drop More |

d) SubjectScholarshipInformation

- i) **Command**- create table SubjectScholarshipInformation(StudentRollNo INT PRIMARY KEY, ScholarshipName MEDIUMTEXT, ScholarshipDescription Varchar(20), ScholarshipAmount INT, ScholarshipCategory varchar(30), ScholarshipTenure INT, ScholarshipCurrency varchar(15));

ii) **Image**-

The screenshot shows the 'Table structure' view for the 'subjectscholarshipinformation' table. The table has 7 columns: StudentRollNo (int(11) PRIMARY KEY), ScholarshipName (mediumtext), ScholarshipDescription (varchar(20)), ScholarshipAmount (int(11)), ScholarshipCategory (varchar(30)), ScholarshipTenure (int(11)), and ScholarshipCurrency (varchar(15)). All columns are NOT NULL and have a default value of NULL. The table is located in the 'student' database on server '127.0.0.1'.

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|---|------------------------|-------------|--------------------|------------|------|---------|----------|-------|------------------|
| 1 | StudentRollNo | int(11) | | | No | None | | | Change Drop More |
| 2 | ScholarshipName | mediumtext | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 3 | ScholarshipDescription | varchar(20) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 4 | ScholarshipAmount | int(11) | | | Yes | NULL | | | Change Drop More |
| 5 | ScholarshipCategory | varchar(30) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 6 | ScholarshipTenure | int(11) | | | Yes | NULL | | | Change Drop More |
| 7 | ScholarshipCurrency | varchar(15) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |

3 and 4.- Snap of the all the tables once the insertion is completed.
Insert more than 10 records in each and every table created

a) studentbasicinformation-

| Options | | StudentName | StudentSurname | StudentRollNo | StudentAddress | StudentFatherName | StudentMotherName | StudentClass |
|---|--|-------------|----------------|---------------|---|-------------------|-------------------|--------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Manuveer | Godara | 15151 | 31233 Brown Flat Suite 773 Harrisonhaven, MA 98811 | Abc Def | Akshit Bansal | 3 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Ishfaq | Bhat | 45556 | 0496 William Tunnel Apt. 238 Port Paulberg, PA 630... | Abc Def | Akshit Bansal | 4 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Kangan | Sharma | 48551 | 0784 Jay Mill Johnstonon, NY 83218 | Akshit Bansal | Abc Def | 13 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Laxmi | Gupta | 99455 | 979 Shelly Hollow East Laurieview, TX 78435 | Abc Def | Akshit Bansal | 5 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Renu | Garg | 123424 | 1304 Andrew Hill South Natasha, WI 17701 | Abc Def | Akshit Bansal | 4 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Akshit | Aggarwal | 335001 | 3138 Davis Mountain Apt. 931 South Stevenchester, ... | Abc Def | Akshit Bansal | 11 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Mansi | Rana | 366445 | 02503 Scott Courts Apt. 750 West Dawntown, WY 6408... | Abc Def | Akshit Bansal | 2 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Mohit | Gupta | 453461 | 28959 Sonya Drive South Ricardo, HI 63087 | Abc Def | Akshit Bansal | 12 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Deepak | Bansal | 515555 | 0706 Natalie Crossroad Suite 970 Port Christinefur... | Abc Def | Maryann Dixon | 1 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Ankita | Juneja | 544449 | 95019 Cantrell Road Suite 997 Brendafort, NJ 37636 | Abc Def | Akshit Bansal | 10 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | Sahil | Kumar | 987463 | 20980 James Courts East Barbara, OR 36776 | Abc Def | Akshit Bansal | 12 |

b) studentadmissionpaymentdetails

| + Options | | StudentRollNo | AmountPaid | AmountBalance | Fines | MethodOfPayment | Hosteller | LateAdmission |
|---|--|---------------|------------|---------------|-------|-----------------|-----------|---------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 673689 | 335001 | 92318 | 3880 | Debit Card | no | no |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 1734814 | 366445 | 115831 | 5727 | Cheque | no | no |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 1919195 | 453461 | 89191 | 8378 | Debit Card | no | no |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 3895324 | 8425112 | 98397 | 9331 | UPI | no | yes |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 4135393 | 149257 | 91773 | 8465 | UPI | no | yes |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 4739818 | 45556 | 117197 | 2644 | Cash | yes | yes |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 7789414 | 6439006 | 184931 | 710 | UPI | no | no |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 8034935 | 987463 | 70051 | 1358 | Demand Draft | no | yes |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 8451379 | 9746662 | 56651 | 2300 | Credit Card | no | yes |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 8862816 | 544449 | 79902 | 6390 | UPI | no | no |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 8867862 | 99455 | 188461 | 1727 | Cheque | no | yes |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | | 9341595 | 123424 | 6123 | 3851 | UPI | yes | no |

c) StudentSubjectInformation

☐ Show all
 Number of rows:
 Filter rows:
 Sort by key:

| Options | SubjectOpted | StudentRollNo | SubjectTotalMarks | SubjectObtainedMarks | StudentMarksPercentage | IsPassed |
|---|---|---------------|-------------------|----------------------|------------------------|----------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Earth Sciences,Environmental Sciences | 45556 | 200 | 118 | 59.13 | YES |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Earth Sciences,Environmental Sciences,Food Science... | 99455 | 400 | 129 | 32.25 | NO |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Life Sciences,Materials Sciences | 123424 | 200 | 67 | 33.50 | YES |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Food Science and Technology | 335001 | 100 | 41 | 41.13 | YES |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Chemistry,Earth Sciences,Environmental Sciences,Fo... | 366445 | 500 | 125 | 25.13 | NO |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Environmental Sciences,Food Science and Technology... | 453461 | 500 | 497 | 99.40 | YES |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Biomedical,Sciences,Chemistry,Earth Sciences,Envir... | 987463 | 600 | 398 | 66.33 | YES |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Food Science and Technology,General Sciences,Life ... | 6439006 | 600 | 6 | 1.13 | NO |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Earth Sciences | 8425112 | 100 | 81 | 81.13 | YES |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Life Sciences,Materials Sciences | 9746662 | 200 | 20 | 10.13 | NO |

d) SubjectScholarshipInformation

| Options | StudentRollNo | ScholarshipName | ScholarshipDescription | ScholarshipAmount | ScholarshipCategory | ScholarshipTenure | ScholarshipCurrency |
|---|---------------|---|------------------------|-------------------|---------------------|-------------------|---------------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 45556 | Sitaram Jindal Foundation Scholarship Scheme | DESCRIPTION - 6 | 12000 | Semi-Government | 4 | INR |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 99455 | Raman Kant Munjal Scholarship | DESCRIPTION - 7 | 730000 | Private | 3 | INR |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 123424 | Japanese Government (MEXT) Scholarships | DESCRIPTION - 8 | 117000 | Foreign | 4 | YEN |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 335001 | CLP India Scholarship Scheme | DESCRIPTION - 10 | 1800 | Private | 4 | USD |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 366445 | L'Oréal India For Young Women in Science Scholarsh... | DESCRIPTION - 4 | 25000 | Private | 2 | INR |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 453461 | CLP India Scholarship Scheme | DESCRIPTION - 1 | 1800 | Private | 4 | USD |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 544449 | HERO INDIA | DESCRIPTION - 3 | 2400 | Private | 2 | INR |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 987463 | NIU Scholarship cum Admission Test (NSAT) | DESCRIPTION - 11 | 8500 | Private | 3 | INR |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 6439006 | L'Oréal India For Young Women in Science Scholarsh... | DESCRIPTION - 9 | 25000 | Private | 2 | INR |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 8425112 | The Anant Fellowship | DESCRIPTION - 2 | 100000 | Government | 4 | INR |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 9746662 | Sitaram Jindal Foundation Scholarship Scheme | DESCRIPTION - 5 | 12000 | Semi-Government | 4 | INR |

5. Update 5 Records-

6. Snap of Updated Database

a) studentbasicinformation-

update StudentBasicInformation set StudentAddress='96968 Anderson Centers Suite 901 Williamsport, MI 90376' where StudentRollNo=453461;
 update StudentBasicInformation set StudentAddress='265 Cameron Ferry South Sheila, AL 85300' where StudentRollNo=8425112;
 update StudentBasicInformation set StudentAddress='886 Teresa Course South Dennisland, RI 22917' where StudentRollNo=366445;
 update StudentBasicInformation set StudentAddress='0331 Jon Route Robertfort, MI 84482' where StudentRollNo=987463;
 update StudentBasicInformation set StudentAddress='0506 Maria Via Apt. 031 Saratown, SC 20954' where StudentRollNo=99455;

✓ 0 rows affected. (Query took 0.0055 seconds.)

```
update StudentBasicInformation set StudentAddress='96968 Anderson Centers Suite 901 Williamsport, MI 90376' where StudentRollNo=453461
```

✓ 0 rows affected. (Query took 0.0012 seconds.)

```
update StudentBasicInformation set StudentAddress='265 Cameron Ferry South Sheila, AL 85300' where StudentRollNo=8425112
```

✓ 0 rows affected. (Query took 0.0010 seconds.)

```
update StudentBasicInformation set StudentAddress='886 Teresa Course South Dennisland, RI 22917' where StudentRollNo=366445
```

✓ 0 rows affected. (Query took 0.0009 seconds.)

```
update StudentBasicInformation set StudentAddress='0331 Jon Route Robertfort, MI 84482' where StudentRollNo=987463
```

✓ 0 rows affected. (Query took 0.0010 seconds.)

```
update StudentBasicInformation set StudentAddress='0506 Maria Via Apt. 031 Saratown, SC 20954' where StudentRollNo=99455
```

b) **studentadmissionpaymentdetails** update

```
StudentAdmissionPaymentDetails set MethodOfPayment='UPI' where  
StudentRollNo=453461;
```

```
update StudentAdmissionPaymentDetails set  
MethodOfPayment='UPI' where StudentRollNo=335001;  
update StudentAdmissionPaymentDetails set  
MethodOfPayment='Cheque' where StudentRollNo=544449;  
update StudentAdmissionPaymentDetails set  
MethodOfPayment='Cheque' where StudentRollNo=9746662;  
update StudentAdmissionPaymentDetails set  
MethodOfPayment='Cash' where StudentRollNo=99455;
```

Show query box

✔ 0 rows affected. (Query took 0.0029 seconds.)

```
update StudentAdmissionPaymentDetails set MethodOfPayment='UPI' where StudentRollNo=453461
```

✔ 0 rows affected. (Query took 0.0010 seconds.)

```
update StudentAdmissionPaymentDetails set MethodOfPayment='UPI' where StudentRollNo=335001
```

✔ 0 rows affected. (Query took 0.0010 seconds.)

```
update StudentAdmissionPaymentDetails set MethodOfPayment='Cheque' where StudentRollNo=544449
```

✔ 0 rows affected. (Query took 0.0016 seconds.)

```
update StudentAdmissionPaymentDetails set MethodOfPayment='Cheque' where StudentRollNo=9746662
```

✔ 0 rows affected. (Query took 0.0012 seconds.)

```
update StudentAdmissionPaymentDetails set MethodOfPayment='Cash' where StudentRollNo=99455
```

7. Select the student details records who has received the scholarship more than 5000Rs/-

```
select t1.studentname, t1.studentrollno, t4.scholarshipamount from
studentbasicinformation t1, subjectscholarshipinformation t4 where
t1.studentrollno=t4.studentrollno and t4.ScholarshipAmount>5000
```

Options

| studentname | studentrollno | scholarshipamount |
|-------------|---------------|-------------------|
| Ishfaq | 45556 | 12000 |
| Laxmi | 99455 | 730000 |
| Renu | 123424 | 117000 |
| Mansi | 366445 | 25000 |
| Sahil | 987463 | 8500 |
| Ravi | 6439006 | 25000 |
| Sameer | 8425112 | 100000 |
| Ishika | 9746662 | 12000 |

8. Select the students who opted for scholarship but has not got the scholarship

```
select t1.studentname, t1.studentrollno, t4.scholarshipamount from
studentbasicinformation t1, subjectscholarshipinformation t4 where
t1.studentrollno<>t4.studentrollno
```

| studentname | studentrollno | scholarshipamount |
|-------------|---------------|-------------------|
| Laxmi | 99455 | 12000 |
| Renu | 123424 | 12000 |
| Akshit | 335001 | 12000 |
| Mansi | 366445 | 12000 |
| Mohit | 453461 | 12000 |
| Ankita | 544449 | 12000 |
| Sahil | 987463 | 12000 |
| Ravi | 6439006 | 12000 |

9. Fill in data for the percentage column i.e. StudentMarksPercentage in the table StudentSubjectInformation by creating and using the stored procedure created

```
DELIMITER //
CREATE PROCEDURE updatePer(IN targetRoll INT)
BEGIN
update studentsubjectinformation
set studentmarkspercentage%=D(subjectobtainedmarks*100)/subjecttotalmarks
-> where studentrollnorrollno;
END//
```

10. Difference between the Triggers, Stored Procedures, Views and Functions

| Stored Procedure | Function | Trigger |
|---|---|--|
| Cannot be executed automatically. | Cannot be executed automatically. | Can be executed automatically. |
| Can't be called from functions but can be called from triggers. | Can be called from stored procedures or triggers. | Can't be called from stored procedure or triggers. |
| Can accept any type of parameter and also can have OUT parameter. | Can accept any type of parameter but don't have an OUT parameter. | Can't accept a parameter. |
| May or may not a value on execution. | Function must return a value. | Can never return a value. |

11. Try to use all the three types of join learned today in a relevant way, and explain the same why you thought of using that particular join for your selected scenarios (try to cover relevant and real time scenarios for all the three studied joins)

Left Join-

```
SELECT StudentName,StudentSurname FROM StudentBasicInformation LEFT JOIN
StudentSubjectInformation ON StudentBasicInformation.StudentRollNo=
StudentSubjectInformation.StudentRollNo where
StudentSubjectInformation.isPassed='no';
```

| StudentName | StudentSurname |
|-------------|----------------|
| Laxmi | Gupta |
| Mansi | Rana |
| Ravi | Bansal |
| Ishika | Bansal |

Right Join

```
SELECT AVG(StudentMarksPercentage) FROM StudentSubjectInformation RIGHT JOIN
StudentBasicInformation ON StudentSubjectInformation.StudentRollNo=
StudentBasicInformation.StudentRollNo where
StudentBasicInformation.optedForScholarship='yes';
```

| AVG(StudentMarksPercentage) |
|-----------------------------|
| 44.926000 |

12. Mention the differences between the delete, drop and truncate commands

DELETE:

Removes rows from a table. Delete rows one at a time & records an entry in the transaction log for each deleted row.

Deleted data can be rollback.

DML command

When the DELETE statement is executed using a row lock, each row in the table is locked for deletion.

TRUNCATE:

TRUNCATE removes all rows from a table.

TRUNCATE TABLE always locks the table and page but not each row.

If we truncate a table, then truncate table statement cannot be rolled back in some of the database.

Truncate table statement is a Data Definition Language.

DROP:

The DROP in SQL command removes a table from the database

13. Get the count of the Scholarship category which is highly been availed by the students, i.e., get the count of the total number of students corresponding to each scholarship's category.

Select scholarshipcategory,count(scholarshipcategory) from
SubjectScholarshipInformation group by scholarshipcategory;

| ←T→ | ▼ | scholarshipcategory | count(scholarshipcategory) | | | |
|--------------------------|---|---------------------|----------------------------|------|--|--------------------------|
| <input type="checkbox"/> | | Edit | | Copy | | Delete Foreign 1 |
| <input type="checkbox"/> | | Edit | | Copy | | Delete Government 1 |
| <input type="checkbox"/> | | Edit | | Copy | | Delete Private 7 |
| <input type="checkbox"/> | | Edit | | Copy | | Delete Semi-Government 2 |

14. Try to retrieve the maximum used scholarship category.

Select scholarshipcategory,count(scholarshipcategory) from
SubjectScholarshipInformation group by scholarshipcategory ORDER BY
`count(scholarshipcategory)` DESC LIMIT 1

| | | | | | | |
|--------------------------|--|------|---------------------|----------------------------|--|------------------|
| | | | scholarshipcategory | count(scholarshipcategory) | | 1 |
| <input type="checkbox"/> | | Edit | | Copy | | Delete Private 7 |

15. Retrieve the percentage of the students along with students detailed information who has scored the highest percentage along with availing the maximum scholarship amount

```
select StudentName, StudentSurname, T1.StudentRollNo, StudentMarksPercentage,
ScholarshipAmount from StudentBasicInformation T1 join StudentSubjectInformation T3
on T1.StudentRollNo=T3.StudentRollNo left join SubjectScholarshipInformation T4 on
T1.StudentRollNo=T4.StudentRollNo order by StudentMarksPercentage
desc,ScholarshipAmount desc limit 1;
```

+ Options

| StudentName | StudentSurname | StudentRollNo | StudentMarksPercentage | ScholarshipAmount |
|-------------|----------------|---------------|------------------------|-------------------|
| Mohit | Gupta | 453461 | 99.40 | 1800 |