SQL CONCEPTS AND FUNDAMENTALS

Solution 4:

StudentName	StudentSurname	StudentRollNo	StudentAddress	StudentFatherName			optedForScholarship
Andrew	Buchanan	453461	28959 Sonya Drive South Ricardo, HI 63087	Martin Sims	Amanda Moore	12	
Jordan	Graven	503480	0496 William Tunnel Apt. 238 Port Paulberg, PA 63031	Edmund Scarberry	Rosa Lynch	4	no
Sara	Baumbach	1152857	95019 Cantrell Road Suite 997 Brendafort, NJ 37636	Christopher Schleider	Arlene Gilmore	10	yes
Maria	Johnston	1964390	3138 Davis Mountain Apt. 931 South Stevenchester, KY 51253	Luis Andreas	Marilyn Young	11	yes
Hubert	Harvey	3370518	20980 James Courts East Barbara, OR 36776	Alan Snipes	Arline Charles	12	no
Jason	Garcia	4316976	0784 Jay Mill Johnstonton, NY 83218	Rick Palmer	Ilana Perez	13	yes
Linda	Sanders	5535741	57719 Payne Square Apt. 808 Wrightville, OR 75477	Roy Keith	Luana Lord	8	yes
Alan	Grollimund	6439006	4178 Christopher Views Suite 293 Lake Nathaniel, IN 49936	Gerard Reyna	Ruby Scallon		no
Richard	Mcconkey	6617786	0706 Natalie Crossroad Suite 970 Port Christinefurt, VT 60236	Jesse Bond	Maryann Dixon		no
Renee	Sanchez	6784727	02503 Scott Courts Apt. 750 West Dawntown, WY 64087	Chad Keenan	Amber Long		yes
Mary	Redfield	8209187	979 Shelly Hollow East Laurieview, TX 78435	Bruce Soliz	Hazel Fulmer		yes
Robert	Rinaldi	8600206	31233 Brown Flat Suite 773 Harrisonhaven, MA 98811	Robert Hall	Barbara Lesueur		no
lugo	Barre	8702173	1304 Andrew Hill South Natasha, WI 17701	Daniel Cook	Cathy Mix	4	no
lelinda	Wright	9444289	953 Ashlee Row Apt. 619 Jonesmouth, VA 20178	James Ebling	Kathryn Marrs	3	ves

14 rows in set (0.00 sec)

MySQL 8.0 Command Line Client

nysql:

ubjectOpted SubjectObtainedMarks StudentMarksPercentage IsPassed	StudentRollNo	SubjectTotalMa
Astronomy,Biology,Biomedical,Sciences,Chemistry,Earth Sciences	57884	
0 280 46.67 YES		
Food Science and Technology	1181076	
0 41 41.13 YES	4057043	
Earth Sciences,Environmental Sciences 3 118 59.13 YES	1857843	
י בון פון אופן אופן אייניין אופן אייניין אייניין אייניין אייניין אייניין אייניין אייניין אייניין אייניין אייני Sciences,Chemistry,Garth Sciences,Environmental Sciences,Food Science and Technology,General Sciences,Life Sciences	3839847	
10 490 70.13 YES	3033041	
Biomedical, Sciences, Chemistry, Earth Sciences, Environmental Sciences, Food Science and Technology	5195773	
0 398 66.33 YES		
Earth Sciences	5939517	
0 81 81.13 YES		
Chemistry,Earth Sciences,Environmental Sciences,Food Science and Technology,General Sciences,Life Sciences	6166948	
0 236 39.33 VES	6463208	
Earth Sciences,Environmental Sciences,Food Science and Technology,General Sciences 0 129 32.25 NO	0403200	
Food Science and Technology,General Sciences,Life Sciences,Materials Sciences,Mathematics,Physical Geography	7280114	
8 6 1.13 NO	7200214	
Environmental Sciences, Food Science and Technology, General Sciences, Life Sciences, Materials Sciences	7647913	
0 497 99.40 YES		
Chemistry,Earth Sciences,Environmental Sciences,Food Science and Technology,General Sciences	7653687	
0 125 25.13 NO		
Chemistry, Earth Sciences, Environmental Sciences, Food Science and Technology, General Sciences, Life Sciences	7764433	
0 322 53.67 YES	8087388	
Life Sciences,Materials Sciences 0 67 33.50 YES	000/300	
tife Sciences, Materials Sciences	8741329	
0 20 10.13 NO	0,12525	
Biomedical, Sciences, Chemistry, Earth Sciences, Environmental Sciences, Food Science and Technology, General Sciences, Life Sciences, Materials Sciences, Mathematics, Physical Geograp	hy 9878512	
0 418 38.13 YES		

MySQL 8.0 Command Line Client

mysql> select * from StudentAdmissionPaymentDetails;

StudentRollNo	AmountPaid	AmountBalance	Fines	MethodOfPayment	Hosteller	LateAdmission
673689	190792	92318	3880	Debit Card	no	no
1734814	197300	115831	5727	Cheque	no	no
1847020	107791	5678	8944	Net Banking	yes	no
1919195	151710	89191	8378	Debit Card	no	no
2765565	71083	119767	8264	Debit Card	no	yes
3895324	17269	98397	9331	UPI	no	yes
4074423	139373	174240	6935	Debit Card	no	yes
4135393	149257	91773	8465	UPI	no	yes
4739818	27154	117197	2644	Cash	yes	yes
7789414	131743	184931	710	UPI	no	no
8034935	42509	70051	1358	Demand Draft	no	yes
8451379	84621	56651	2300	Credit Card	no	yes
8862816	101089	79902	6390	UPI	no	no
8867862	57978	188461	1727	Cheque	no	yes
9341595	54035	6123	3851	UPI	yes	no

15 rows in set (0.03 sec)

MySQL 8.0 Command Line Client

mysql>
mysql> select * from SubjectScholarshipInformation;

StudentRollNo	ScholarshipName	ScholarshipDescription	ScholarshipAmount	ScholarshipCategory	ScholarshipTenure	ScholarshipCurrency
436721	Raman Kant Munjal Scholarship	DESCRIPTION - 7	730000	Private	3	INR
663255	L?Oréal India For Young Women in Science Scholarships	DESCRIPTION - 4	25000	Private	2	INR
1434786	CLP India Scholarship Scheme	DESCRIPTION - 1	1800	Private	4	USD
1702726	L?Oréal India For Young Women in Science Scholarships	DESCRIPTION - 13	25000	Private	2	INR
		DESCRIPTION - 2	100000	Government	4	INR
2942796	Sitaram Jindal Foundation Scholarship Scheme	DESCRIPTION - 6	12000	Semi-Government	4	INR
3048303	Raman Kant Munjal Scholarship	DESCRIPTION - 15	730000	Private	3	INR
3608365	Sitaram Jindal Foundation Scholarship Scheme	DESCRIPTION - 12	12000	Semi-Government	4	INR
4103209	L?Oréal India For Young Women in Science Scholarships	DESCRIPTION - 9	25000	Private	2	INR
4247655	CLP India Scholarship Scheme	DESCRIPTION - 10	1800	Private	4	USD
4984015	Sitaram Jindal Foundation Scholarship Scheme	DESCRIPTION - 5	12000	Semi-Government	4	INR
5696799	The Anant Fellowship	DESCRIPTION - 14	100000	Government	4	INR
5885182	HERO INDIA	DESCRIPTION - 3	2400	Private	2	INR
8549137	Japanese Government (MEXT) Scholarships	DESCRIPTION - 8	117000	Foreign	4	YEN
9300900	NIU Scholarship cum Admission Test (NSAT)	DESCRIPTION - 11	8500	Private	3	INR

15 rows in set (0.00 sec)

mysql:

Solution 5 & 6:

```
MvSQL 8.0 Command Line Client
                                                                                                                                                                      O
 ysql> update StudentBasicInformation set StudentAddress='96968 Anderson Centers Suite 901 Williamsport, MI 90376' where StudentRollNo=4316976;
uery OK, 1 row affected (0.61 sec)
wws matched: 1 Changed: 1 Warnings: 0
 ysql> update StudentBasicInformation set StudentAddress='265 Cameron Ferry South Sheila, AL 85300' where StudentRollNo=370518;
uery OK, 0 rows affected (0.00 sec)
ows matched: 0 Changed: 0 Warnings: 0
 rsql> update StudentBasicInformation set StudentAddress='886 Teresa Course South Dennisland, RI 22917' where StudentRollNo=4316976;
wery OK, 1 row affected (5.09 sec)
ws matched: 1 Changed: 1 Warnings: 0
  sql> update StudentBasicInformation set StudentAddress='0331 Jon Route Robertfort, MI 84482' where StudentRollNo=8209187;
 uery OK, 1 row affected (1.48 sec)
ows matched: 1 Changed: 1 Warnings: 0
 sql> update StudentBasicInformation set StudentAddress='0506 Maria Via Apt. 031 Saratown, SC 20954' where StudentRollNo=9444289;
 uery OK, 1 row affected (1.80 sec)
ows matched: 1 Changed: 1 Warnings: 0
MvSQL 8.0 Command Line Client
mysql> update StudentAdmissionPaymentDetails set MethodOfPayment='UPI' where StudentRollNo=3895324;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
 nysql> update StudentAdmissionPaymentDetails set MethodOfPayment='UPI' where StudentRollNo=4074423;
Query OK, 1 row affected (0.03 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> update StudentAdmissionPaymentDetails set MethodOfPayment='Cheque' where StudentRollNo=673689;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
 nysql> update StudentAdmissionPaymentDetails set MethodOfPayment='Cheque' where StudentRollNo=8862816;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> update StudentAdmissionPaymentDetails set MethodOfPayment='Cash' where StudentRollNo=8867862;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql>
MySQL 8.0 Command Line Client
                                                                                                                                                                 - 🗇 X
 /sql> update StudentSubjectInformation set SubjectOpted='Materials Sciences' where StudentRollNo=5939517;
 uery OK, 1 row affected (0.73 sec)
 ows matched: 1 Changed: 1 Warnings: 0
 ysql> update StudentSubjectInformation set SubjectOpted='Materials Sciences,Mathematics,Physical Geography' where StudentRollNo=1181076;
 uery OK, 1 row affected (0.03 sec)
 ows matched: 1 Changed: 1 Warnings: 0
 ysql> update StudentSubjectInformation set SubjectOpted='Life Sciences,Materials Sciences' where StudentRollNo=8087388;
 uery OK, 0 rows affected (0.00 sec)
 ows matched: 1 Changed: 0 Warnings: 0
 ysql> update StudentSubjectInformation set SubjectOpted='Sciences,Chemistry,Earth Sciences,Environmental Sciences,Food Science and Technology,General Sciences,Life Sciences,Materials Scien
ces,Mathematics,Physical Geography,Physics' where StudentRollNo=6463208;
 uery OK, 1 row affected (0.05 sec)
 ows matched: 1 Changed: 1 Warnings: 0
 ysql> update StudentSubjectInformation set SubjectOpted='Life Sciences' where StudentRollNo=7764433;
 uery OK, 1 row affected (0.02 sec)
 ows matched: 1 Changed: 1 Warnings: 0
 rsql> _
```

MvSQL 8.0 Command Line Client

mysql> update SubjectScholarshipInformation set ScholarshipDescription='Description -> 20' where StudentRollNo=1702726; Query OK, 1 row affected (1.45 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update SubjectScholarshipInformation set ScholarshipDescription='Description -> 26' where StudentRollNo=5696799; Query OK, 1 row affected (0.15 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update SubjectScholarshipInformation set ScholarshipDescription='Description -> 10' where StudentRollNo=436721; Query OK, 1 row affected (0.28 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update SubjectScholarshipInformation set ScholarshipDescription='Description -> 23' where StudentRollNo=5885182; Query OK, 1 row affected (0.35 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update SubjectScholarshipInformation set ScholarshipDescription='Description -> 23' where StudentRollNo=1998446; Query OK, 1 row affected (0.08 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MvSQL 8.0 Command Line Client

ysql>

| StudentName | StudentSuriname | StudentBollho | StudentAddress | StudentFatherName | StudentHotherName |

5 rows in set (0.00 sec)

mysql>

MySQL 8.0 Command Line Client

mysql> select * from StudentAdmissionPaymentDetails;

			+		+	+	+
ı	StudentRollNo	AmountPaid	AmountBalance	Fines	MethodOfPayment	Hosteller	LateAdmission
Ì	673689	190792	92318	3880	Cheque	no	no
ı	1734814	197300	115831	5727	Cheque	no	no
I	1847020	107791	5678	8944	Net Banking	yes	no
I	1919195	151710	89191	8378	Debit Card	no	no
I	2765565	71083	119767	8264	Debit Card	no	yes
I	3895324	17269	98397	9331	UPI	no	yes
I	4074423	139373	174240	6935	UPI	no	yes
I	4135393	149257	91773	8465	UPI	no	yes
I	4739818	27154	117197	2644	Cash	yes	yes
I	7789414	131743	184931	710	UPI	no	no
I	8034935	42509	70051	1358	Demand Draft	no	yes
I	8451379	84621	56651	2300	Credit Card	no	yes
I	8862816	101089	79902	6390	Cheque	no	no
I	8867862	57978	188461	1727	Cash	no	yes
I	9341595	54035	6123	3851	UPI	yes	no

15 rows in set (0.00 sec)

mysql>

0

MySQL 8.0 Command Line Client

mysql> select * from SubjectScholarshipINformation;

StudentRollNo	ScholarshipName	ScholarshipDescription	ScholarshipAmount	ScholarshipCategory	ScholarshipTenure	ScholarshipCurrency
436721	Raman Kant Munjal Scholarship	Description -> 10	730000	Private	3	INR
663255	L?Oréal India For Young Women in Science Scholarships	DESCRIPTION - 4	25000	Private	2	INR
1434786	CLP India Scholarship Scheme	DESCRIPTION - 1	1800	Private	4	USD
1702726	L?Oréal India For Young Women in Science Scholarships	Description -> 20	25000	Private	2	INR
1998446	The Anant Fellowship	Description -> 23	100000	Government	4	INR
2942796	Sitaram Jindal Foundation Scholarship Scheme	DESCRIPTION - 6	12000	Semi-Government	4	INR
3048303	Raman Kant Munjal Scholarship	DESCRIPTION - 15	730000	Private	3	INR
3608365	Sitaram Jindal Foundation Scholarship Scheme	DESCRIPTION - 12	12000	Semi-Government	4	INR
4103209	L?Oréal India For Young Women in Science Scholarships	DESCRIPTION - 9	25000	Private	2	INR
4247655	CLP India Scholarship Scheme	DESCRIPTION - 10	1800	Private	4	USD
4984015	Sitaram Jindal Foundation Scholarship Scheme	DESCRIPTION - 5	12000	Semi-Government	4	INR
5696799	The Anant Fellowship	Description -> 26	100000	Government	4	INR
5885182	HERO INDIA	Description -> 23	2400	Private	2	INR
8549137	Japanese Government (MEXT) Scholarships	DESCRIPTION - 8	117000	Foreign	4	YEN
9300900	NIU Scholarship cum Admission Test (NSAT)	DESCRIPTION - 11	8500	Private	3	INR

15 rows in set (0.05 sec)

mysql> _

Solution 7:

MySQL 8.0 Command Line Client

mysql> select t1.studentname, t1.studentrollno,t4.scholarshipamount

- -> from studentbasicinformation t1, subjectscholarshipinformation t4
- -> where t1.studentrollno=t4.studentrollno and t4.scholarshipamount>5000;

studentname	studentrollno	scholarshipamount
Andrew	453461	730000
Jordan	503480	25000
Maria	1964390	25000
Hubert	3370518	100000
Jason	4316976	12000
Linda	5535741	730000
Alan	6439006	12000
Richard	6617786	25000
Robert	7107272	12000
Mary	8209187	100000
Hugo	8702173	117000
Melinda	9444289	8500

12 rows in set (0.07 sec)

mysql> _

Solution 8:

MySQL 8.0 Command Line Client

```
mysql> select distinct t1.studentname,t1.studentrollno
    -> from studentbasicinformation t1, subjectscholarshipinformation t4
    -> where t1.studentrollno<>t4.studentrollno and t1.optedForScholarship='yes';
 studentname | studentrollno |
 Melinda
                     9444289
 Mary
                     8209187
 Renee
                     6784727
 Linda
                     5535741
 Jason
                     4316976
 Maria
                     1964390
 Sara
                    1152857
7 rows in set (0.00 sec)
mysql> _
```

Solution 9:

MySQL 8.0 Command Line Client

```
mysql>
mysql> DELIMITER //
mysql> CREATE PROCEDURE updatePer(IN targetRoll INT)
    -> BEGIN
    -> update studentsubjectinformation
    -> set studentmarkspercentage=(subjectobtainedmarks*100)/subjecttotalmarks
    -> where studentrollno=rollno;
    -> END//
Query OK, 0 rows affected (0.06 sec)
```

Solution 10:

```
nysql> create procedure updateScholar(IN RollNo INT)

-> BEGIN

-> update SubjectScholarshipInformation

-> set StudentRollNo=RollNo and ScholarshipIname=

-> case when rollno in (select studentrollno from StudentSubjectInformation where StudentSubjectInformation.StudentMarksPercentage*C

nysql> create procedure updateScholar(IN RollNo INT)

-> BEGIN

-> update SubjectScholarshipInformation

-> set StudentRollNo=RollNo and Scholarshipcategory=

-> case when rollno IN (select studentrollno from StudentSubjectInformation where StudentSubjectInformation.studentmarkspercentage between 70 and 100) THEN "MERIT"

-> else "NON-MERIT"

-> end;

-> END//
Query OK, 0 rows affected (0.09 sec)
```

Solution 11:

```
MySQL 8.0 Command Line Client
mysql>
nysql> create view BalAmn as
   -> select studentname, studentrollno, amountbalance
    -> from studentbasicinformation join StudentAdmissionPaymentDetails
    -> where student^C
 ysql> create view BalAmn as
    -> select t1.studentname,t1.studentrollno,t2.amountbalance
    -> from studentbasicinformation t1 join StudentAdmissionPaymentDetails t2
    -> where t1.studentrollno=t2.studentrollno;
Query OK, 0 rows affected (0.14 sec)
nysql> select * from balamn;
 studentname | studentrollno | amountbalance |
 Andrew
                                         92318
  Jordan
                       503480
                                        115831
                      1152857
                                         5678
  Sara
                      1964390
                                         89191
 Maria
 Hubert
                      3370518
                                        119767
                      4316976
                                         98397
  Linda
                      5535741
                                        174240
 Alan
                      6439006
                                         91773
 Richard
                                        117197
                      6617786
 Renee
                      6784727
                                        184931
                      8209187
                                         56651
 Mary
 Robert
                      8600206
                                         79902
                      8702173
                                        188461
 Hugo
 Melinda
                      9444289
                                          6123
14 rows in set (0.03 sec)
nysql> _
```

Solution 12:

MySQL 8.0 Command Line Client

```
mysql> select DISTINCT t1.studentname,t1.studentsurname,t1.studentrollno
   -> from studentbasicinformation t1,SubjectScholarshipInformation t2
   -> where t1.optedforscholarship="yes" and t1.studentrollno NOT IN (select t2.studentrollno from SubjectScholarshipInformation);
 studentname | studentsurname | studentrollno |
 Melinda
             Wright
                                     9444289
 Mary
               Redfield
                                     8209187
 Renee
               Sanchez
                                    6784727
 Linda
                                    5535741
               Sanders
              Garcia
                                    4316976
 Jason
 Maria
              Johnston
                                    1964390
 Sara
             Baumbach
                                    1152857
 rows in set (0.00 sec)
mysql>
```

Solution 13:

MySQL 8.0 Command Line Client

```
mysql> delimiter //
mysql> create procedure findBalAmn(IN RollNo INT, OUT Bal INT)
   -> BEGIN
   -> select AmountBalance from StudentAdmissionPaymentDetails
   -> where StudentRollNo=RollNo;
   -> END //
Query OK, 0 rows affected (0.02 sec)

mysql> delimiter;
mysql> call findBalAmn(9444289,@Bal);
+------+
| AmountBalance |
+------+
| 6123 |
+------+
1 row in set (0.02 sec)

Query OK, 0 rows affected (0.02 sec)

mysql>
```

Solution 14:

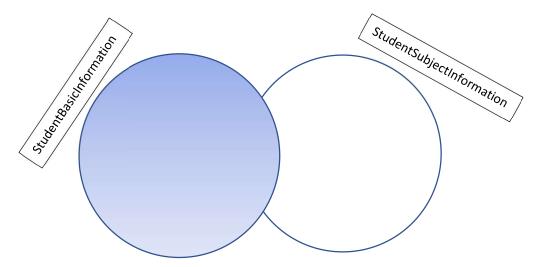
```
mysql> select t1.studentName,t1.studentsurname
   -> from StudentBasicInformation t1, StudentSubjectInformation t2
   -> order by t2.studentmarkspercentage DESC
   -> LIMIT 5;
 studentName | studentsurname |
              Johnston
 Maria
               Baumbach
 Sara
 Jordan
               Graven
 Hubert
              Harvey
 Andrew
              Buchanan
5 rows in set (0.04 sec)
```

Question 15: 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)

Solution:

• Left Join

Consider a scenario where we want to retrieve all the information of a student who has failed in the examination. Then we retrieve all information from left table (StudentBasicInformation) and only a columns' information (IsPassed) from Right table (StudentSubjectInformation).



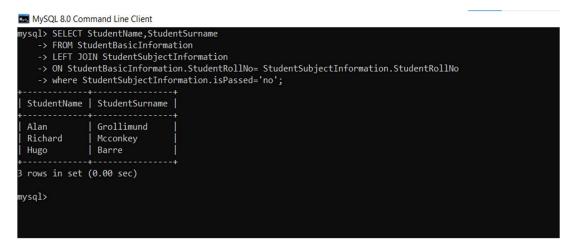
SELECT StudentName, StudentSurname

FROM StudentBasicInformation

LEFT JOIN StudentSubjectInformation

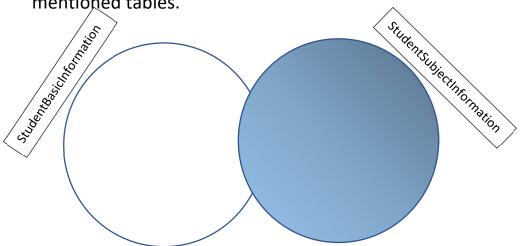
ON StudentBasicInformation.StudentRollNo= StudentSubjectInformation.StudentRollNo where StudentSubjectInformation.isPassed='no';

Output:



• Right Join

Consider a scenario where we have to find the average percentage of the class of all the students who opted for scholarship. Then we perform right join on the two above mentioned tables.



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

OUTPUT:

Question 16: Mention the differences between the delete, drop and truncate commands.

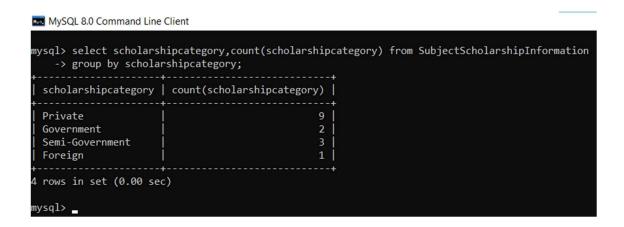
Solution:

Delete	Drop	Truncate	
It comes under DML.	It comes under DDL.	It comes under DDL.	
Used to delete one or more tuples of a table.	It is used to delete the entire structure of the table.	It is used to delete all the tuples of a table.	
Where clause can be used.	Where clause can't be used.	Where clause can't be used.	

Question 17: 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.

Solution:

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



Question 18: Along with the assignment no. 17 try to retrieve the maximum used scholarship category.

Solution:

Select scholarshipcategory,count(scholarshipcategory) from SubjectScholarshipInformation group by scholarshipcategory LIMIT 1;

Question 19: Retrieve the percentage of the students along with students detailed information who has scored the highest percentage along with availing the maximum scholarship amount

Solution:

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;

```
mysql> 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;

| StudentName | StudentSurname | StudentRollNo | StudentMarksPercentage | ScholarshipAmount |
| Renee | Sanchez | 6784727 | 99.40 | 1800 |
| 1 row in set (0.00 sec)
| mysql>
```

Question 20: Difference between the Triggers, Stored Procedures, Views and Functions.

Solution:

<u>Views:</u> A view is actually a composition of a table in the form of a predefined SQL query. A view can contain all rows of a table or select rows from a table. A MySQL view can be created from one or many tables which depend on the written MySQL query to create a view.

Basis of Diff.	Stored Procedure	Function	Trigger
Executability	Cannot be executed automatically.	Cannot be executed automatically.	Can be executed automatically.
Calling	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.
Parameters	of parameter and	Can accept any type of parameter but don't have an OUT parameter.	•
Return	May or may not a value on execution.	Function must return a value.	Can never return a value.

VISHNU SINGH SENGAR