

RISHIK CHAUDHARY
ASSIGNMENT OF DATA BASE MANAGEMENT SYSTEM
ROLLNO.-->AE-1240
COURSE-->BSC(HONS) COMPUTER SCIENCE
SUBMITTED ON-->2023-02-11

=> FIRST WE NEED CREATE A DATABASE
mysql> CREATE DATABASE RISHIK;
Query OK, 1 row affected (0.57 sec)

=> THEN USE THAT DATABASE TO CREATE FURTHER CREATE TABLES
mysql> USE RISHIK;
Database changed

***** FOLLOWING WE ARE CREATING AND DESCRIBING THE TABLES STUDENT,SOCIETY
AND ENROLLMENT*****

#####CREATING STUDENT TABLE#####

mysql> CREATE TABLE STUDENT(
-> ROLLNO CHAR(6) PRIMARY KEY,
-> STUDENT_NAME VARCHAR(20),
-> COURSE ENUM('CS(HONS)', 'ELEC(HONS)', 'PMCS', 'LS', 'B.COM', 'CHEM(HONS)'),
-> DOB DATE);
Query OK, 0 rows affected (0.42 sec)

####DESCRIBING STRUCTURE OF STUDENT TABLE####

mysql> DESCRIBE STUDENT;
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key |
| Default | Extra | | |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
ROLLNO	char(6)	NO	PRI
NULL			
STUDENT_NAME	varchar(20)	YES	
NULL			
COURSE	enum('CS(HONS)', 'ELEC(HONS)', 'PMCS', 'LS', 'B.COM', 'CHEM(HONS)')	YES	
NULL			
DOB	date	YES	
NULL			
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.07 sec)

####CREATING SOCIETY TABLE####

mysql> CREATE TABLE SOCIETY(
-> SocID CHAR(6),
-> SocName ENUM('DHWANI', 'ENACTUS', 'BOOK WITH
UVA', 'SASHAKT', 'NSS', 'DHUN', 'TURING', 'MYRAA', 'PICFIE'),
-> MentorName VARCHAR(15),
-> TotalSeats INT UNSIGNED,
-> CONSTRAINT PK1 PRIMARY KEY(SocID));
Query OK, 0 rows affected (0.49 sec)

####DESCRIBING THE STRUCTURE OF SOCIETY TABLE####

mysql> DESCRIBE SOCIETY;

Field	Type	Null	Key	Default	Extra
SocID	char(6)	NO	PRI	NULL	
SocName	enum('DHWANI','ENACTUS','BOOK WITH UVA','SASHAKT','NSS','DHUN','TURING','MYRAA','PICFIE')	YES		NULL	
MentorName	varchar(15)	YES		NULL	
TotalSeats	int unsigned	YES		NULL	

4 rows in set (0.14 sec)

####CREATING THE ENROLLMENT TABLE####

mysql> CREATE TABLE ENROLLMENT

- > (RollNo CHAR(6),
- > SID CHAR(6),
- > Date_Of_Enrollment DATE,
- > FOREIGN KEY(RollNo) REFERENCES STUDENT(RollNo),
- > FOREIGN KEY(SID) REFERENCES SOCIETY(SocID));

Query OK, 0 rows affected (2.25 sec)

####DESCRIBING THE STRUCTURE OF ENROLLMENT TABLE####

mysql> DESCRIBE ENROLLMENT;

Field	Type	Null	Key	Default	Extra
RollNo	char(6)	YES	MUL	NULL	
SID	char(6)	YES	MUL	NULL	
Date_Of_Enrollment	date	YES		NULL	

3 rows in set (0.07 sec)

####INSERTING DATA IN STUDENT TABLE####

mysql> INSERT INTO STUDENT VALUES(1240,"RISHIK CHAUDHARY","CS(HONS)","2004-04-06"),
-> (1103,"KAMAL PREET SINGH","B.COM","2005-05-20");

Query OK, 2 rows affected (0.34 sec)

mysql> INSERT INTO STUDENT VALUES(1603,"BHAVYA CHAUDHARY","B.COM","2000-01-12"),
-> (1524,"AJAY NAGAR","CHEM(HONS)","2003-12-25");

Query OK, 2 rows affected (0.11 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> INSERT INTO STUDENT VALUES

- > (1004,"ADHIRAJ SINGH","LS","2004-09-18"),
- > (1212,"HARMAN DEEP","ELEC(HONS)","2005-02-17"),

```

-> (1823,"YASHIKA BHALLA","LS","2003-11-12"),
-> (1815,"TANISHKA BHALLA","CHEM(HONS)","2004-07-18");
Query OK, 4 rows affected (0.22 sec)
Records: 4 Duplicates: 0 Warnings: 0

```

####DISPLAYING THE CURRENT STATE OF THE STUDENT TABLE####

```
mysql> SELECT*FROM STUDENT;
```

ROLLNO	STUDENT_NAME	COURSE	DOB
1004	ADHIRAJ SINGH	LS	2004-09-18
1103	KAMAL PREET SINGH	B.COM	2005-05-20
1212	HARMAN DEEP	ELEC(HONS)	2005-02-17
1240	RISHIK CHAUDHARY	CS(HONS)	2004-04-06
1260	MILES MORALES	CS(HONS)	2004-03-06
1524	AJAY NAGAR	CHEM(HONS)	2003-12-25
1603	BHAVYA CHAUDHARY	B.COM	2000-01-12
1800	GAURAV TANDON	PMCS	2000-08-30
1815	TANISHKA BHALLA	CHEM(HONS)	2004-07-18
1823	YASHIKA BHALLA	LS	2003-11-12

10 rows in set (0.06 sec)

####USING THE ALTER TABLE COMMAND TO CHANGE THE DATA TYPE LENGTH OF THE MENTOR COLUMN####

```
mysql> ALTER TABLE SOCIETY
```

```

-> MODIFY MentorName VARCHAR(20);

```

Query OK, 0 rows affected (0.62 sec)

Records: 0 Duplicates: 0 Warnings: 0

####CHECKING WHETHER THE DATA LENGTH HAS BEEN CHANGED OR NOT####

```
mysql> DESCRIBE SOCIETY;
```

Field	Type	Null	Key	Default	Extra
SocID	char(6)	NO	PRI	NULL	
SocName	enum('DHWANI', 'ENACTUS', 'BOOK WITH UVA', 'SASHAKT', 'NSS', 'DHUN', 'TURING', 'MYRAA', 'PICFIE')	YES		NULL	
MentorName	varchar(20)	YES		NULL	
TotalSeats	int unsigned	YES		NULL	

4 rows in set (0.06 sec)

####INSERTING DATA INTO THE SOCIETY TABLE####

```
mysql> INSERT INTO SOCIETY VALUES(1001,"DHWANI","MISS MONIKA",40),
```

```

-> (1002,"DHUN","MISS MONIKA",20),

```

```

-> (1003,"NSS","DR. SUNITA JETLEY",50),

```

```

-> (1004,"ENACTUS","DR. MANOJ",30),

```

```

-> (1005,"TURING","DR.SUNITA NARANG",10),

```

```

-> (1006,"BOOK WITH UVA","MR KUMAR",30),
-> (1007,"SASHAKT","DR. SUNITA JETLEY",20);
Query OK, 7 rows affected (0.12 sec)
Records: 7 Duplicates: 0 Warnings: 0

```

####CHECKING THE CURRENT STATUS OF THE SOCIETY TABLE####

```
mysql> SELECT*FROM SOCIETY;
```

SocID	SocName	MentorName	TotalSeats
1001	DHWANI	MISS MONIKA	40
1002	DHUN	MISS MONIKA	20
1003	NSS	DR. SUNITA JETLEY	50
1004	ENACTUS	DR. MANOJ	30
1005	TURING	DR.SUNITA NARANG	10
1006	BOOK WITH UVA	MR KUMAR	30
1007	SASHAKT	DR. SUNITA JETLEY	20

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

####INSERTING DATA INTO ENROLLMENT TABLE####

```
mysql> INSERT INTO ENROLLMENT VALUES(1815,1004,"2021-04-15"),
-> (1603,1003,"2022-06-20");
Query OK, 2 rows affected (0.24 sec)
Records: 2 Duplicates: 0 Warnings: 0

```

```
mysql> INSERT INTO ENROLLMENT VALUES(1823,1003,"2021-11-30");
Query OK, 1 row affected (0.23 sec)

```

####CHECKING THE CURRENT STATUS OF THE ENROLLMENT TABLE####

```
mysql> SELECT*FROM ENROLLMENT;
```

RollNo	SID	Date_Of_Enrollment
1240	1001	2023-01-23
1260	1002	2023-02-01
1815	1004	2021-04-15
1603	1003	2022-06-20
1823	1003	2021-11-30

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

*****FROM HERE WE SOLVING QUERIES WITH THEIR CORESSPONDING

OUTPUT*****

Q.1--> Retrieve names of students enrolled in any society

```
ANS-1 mysql> SELECT STUDENT_NAME FROM STUDENT WHERE EXISTS(SELECT* FROM ENROLLMENT WHERE
STUDENT.RollNo=ENROLLMENT.RollNo);
```

STUDENT_NAME
RISHIK CHAUDHARY
MILES MORALES
BHAVYA CHAUDHARY
TANISHKA BHALLA
YASHIKA BHALLA

+-----+
5 rows in set (0.00 sec)

Q.2--> Retrieve all society names

ANS-->

mysql> SELECT SocName FROM SOCIETY;

SocName
DHWANI
DHUN
NSS
ENACTUS
TURING
BOOK WITH UVA
SASHAKT

+-----+
7 rows in set (0.00 sec)

Q.3-->Retrieve students' names starting with letter 'A'

ANS-->

mysql> SELECT STUDENT_NAME FROM STUDENT WHERE STUDENT_NAME LIKE 'A%';

STUDENT_NAME
ADHIRAJ SINGH
AJAY NAGAR

+-----+
2 rows in set (0.34 sec)

Q.4-->Retrieve students' details studying in courses 'computer science' or 'chemistry'

ANS-->

mysql> SELECT STUDENT_NAME FROM STUDENT WHERE COURSE IN("CS(HONS)","CHEM(HONS)");

STUDENT_NAME
RISHIK CHAUDHARY
MILES MORALES
AJAY NAGAR
TANISHKA BHALLA

+-----+
4 rows in set (0.00 sec)

Q.5-->. Retrieve students' names whose roll no either starts with 1

ANS-->

mysql> SELECT STUDENT_NAME FROM STUDENT WHERE ROLLNO LIKE "1%";

STUDENT_NAME
RISHIK CHAUDHARY
MILES MORALES
AJAY NAGAR
BHAVYA CHAUDHARY
GAURAV TANDON
TANISHKA BHALLA
YASHIKA BHALLA

+-----+
7 rows in set (0.15 sec)

Q.6-->Find society details with more than N TotalSeats where N is to be input by the user

```
mysql> SELECT * FROM SOCIETY WHERE TotalSeats > #N;
```

```
-> 20
```

```
-> ;
```

SocID	SocName	MentorName	TotalSeats
1001	DHWANI	MISS MONIKA	40
1003	NSS	DR. SUNITA JETLEY	50
1004	ENACTUS	DR. SINGH	30
1006	BOOK WITH UVA	MR KUMAR	30

Q.7-->Update society table for mentor name of a specific society

ANS-->

```
mysql> UPDATE SOCIETY
```

```
-> SET MentorName="DR. SINGH" WHERE SocName LIKE "ENACTUS%";
```

Query OK, 1 row affected (0.09 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT*FROM SOCIETY;
```

SocID	SocName	MentorName	TotalSeats
1001	DHWANI	MISS MONIKA	40
1002	DHUN	MISS MONIKA	20
1003	NSS	DR. SUNITA JETLEY	50
1004	ENACTUS	DR. SINGH	30
1005	TURING	DR.SUNITA NARANG	10
1006	BOOK WITH UVA	MR KUMAR	30
1007	SASHAKT	DR. SUNITA JETLEY	20

7 rows in set (0.00 sec)

Q.8-->Find society names in which more than five students have enrolled

ANS-->

```
mysql> SELECT SocName,COUNT(*)FROM SOCIETY S,ENROLLMENT E WHERE S.SocID=E.SID GROUP BY E.SID  
HAVING COUNT(*)>1;
```

SocName	COUNT(*)
DHWANI	2
NSS	2
ENACTUS	2

3 rows in set (0.04 sec)

Q.9-->Find the name of youngest student enrolled in society 'NSS'

ANS-->

```
mysql> SELECT ROLLNO,MIN(DATEDIFF(CURDATE(),Date_Of_Enrollment))FROM ENROLLMENT;
```

ROLLNO	MIN(DATEDIFF(CURDATE(),Date_Of_Enrollment))
1240	375

1 row in set (0.00 sec)

Q.10-->Find the name of most popular society (on the basis of enrolled students).
ANS-->

```
mysql> SELECT SocName,COUNT(*) AS ENROLLED_STUDENTS FROM STUDENT S,SOCIETY S1,ENROLLMENT E
WHERE S1.SocID=E.SID AND S.ROLLNO=E.RollNo GROUP BY(SocName) ORDER BY(ENROLLED_STUDENTS)
DESC LIMIT 1;
+-----+-----+
| SocName | ENROLLED_STUDENTS |
+-----+-----+
| ENACTUS | 3 |
+-----+-----+
1 row in set (0.00 sec)
```

#####SECOND ASSIGNMENT OF DATABASE MANAGEMENT SYSTEM#####

Q.11-->Find the name of two least popular societies (on the basis of enrolled students)
ANS-->

```
mysql> SELECT SocName FROM SOCIETY S,ENROLLMENT E WHERE S.SocID=E.SID GROUP BY SID ORDER BY
COUNT(*) LIMIT 2;
+-----+
| SocName |
+-----+
| DHUN    |
| DHWANI  |
+-----+
2 rows in set (0.06 sec)
```

Q.12-->. Find the student names who are not enrolled in any society

```
ANS-->
mysql> SELECT STUDENT_NAME FROM STUDENT,ENROLLMENT WHERE STUDENT.ROLLNO != ENROLLMENT.RollNo
GROUP BY STUDENT_NAME HAVING COUNT(*)=7 ;
+-----+
| STUDENT_NAME |
+-----+
| AJAY NAGAR   |
| GAURAV TANDON |
| HARMAN DEEP  |
+-----+
3 rows in set (0.06 sec)
```

Q.13--> Find the student names enrolled in at least two societies
ANS-->

```
mysql> SELECT STUDENT_NAME FROM STUDENT,ENROLLMENT WHERE STUDENT.ROLLNO=ENROLLMENT.RollNo
GROUP BY STUDENT_NAME HAVING COUNT(*)>1;
+-----+
| STUDENT_NAME |
+-----+
| RISHIK CHAUDHARY |
| BHAVYA CHAUDHARY |
+-----+
2 rows in set (0.00 sec)
```

Q.14-->Find society names in which maximum students are enrolled

ANS-->

```
mysql> SELECT SocName FROM SOCIETY,ENROLLMENT WHERE SocID=SID GROUP BY SID ORDER BY COUNT(*)  
DESC LIMIT 2;
```

```
+-----+  
| SocName |  
+-----+  
| ENACTUS |  
| NSS     |  
+-----+  
2 rows in set (0.00 sec)
```

Q.15-->Find names of all students who have enrolled in any society and society names in which at least one student has enrolled
ANS-->

```
mysql> SELECT STUDENT_NAME FROM STUDENT S,ENROLLMENT E WHERE S.ROLLNO=E.RollNo GROUP BY  
STUDENT_NAME;
```

```
+-----+  
| STUDENT_NAME |  
+-----+  
| RISHIK CHAUDHARY |  
| MILES MORALES    |  
| BHAVYA CHAUDHARY |  
| TANISHKA BHALLA  |  
| YASHIKA BHALLA   |  
| ADHIRAJ SINGH    |  
| KAMAL PREET SINGH |  
+-----+  
7 rows in set (0.00 sec)
```

```
mysql> SELECT SocName,COUNT(*) FROM SOCIETY S1,ENROLLMENT WHERE SocID=SID GROUP BY SocName  
HAVING COUNT(*)>1;
```

```
+-----+  
| SocName | COUNT(*) |  
+-----+  
| DHWANI  | 2        |  
| NSS     | 3        |  
| ENACTUS | 3        |  
+-----+  
3 rows in set (0.05 sec)
```

Q.16-->. Find names of students who are enrolled in any of the three societies 'Debating', 'Dancing' and 'Sashakt'.
ANS-->

```
mysql> SELECT STUDENT_NAME FROM STUDENT S,SOCIETY V,ENROLLMENT E WHERE S.ROLLNO=E.RollNo AND  
V.SocID=E.SID AND SocName IN("DHWANI","MYRAA","TARK");
```

```
+-----+  
| STUDENT_NAME |  
+-----+  
| RISHIK CHAUDHARY |  
| ADHIRAJ SINGH    |  
+-----+  
2 rows in set (0.00 sec)
```

Q.17-->Find society names such that its mentor has a name with 'Gupta' in it.

ANS-->

```
mysql> SELECT SocName FROM STUDENT S,SOCIETY V,ENROLLMENT E WHERE S.ROLLNO=E.RollNo AND MentorName LIKE "%JETLEY" GROUP BY SocName;
```

```
+-----+
| SocName |
+-----+
| SASHAKT |
| NSS     |
+-----+
```

2 rows in set (0.00 sec)

Q.18--> Find the society names in which the number of enrolled students is less than 5% of its capacity.

ANS-->

```
mysql> SELECT SocName FROM SOCIETY S1 INNER JOIN ENROLLMENT E ON S1.SocID=E.SID GROUP BY S1.SocName,S1.TotalSeats
-> HAVING COUNT(*)<S1.TotalSeats*0.05;
```

```
+-----+
| SocName |
+-----+
| DHWANI  |
| DHUN    |
| SASHAKT |
+-----+
```

3 rows in set (0.00 sec)

Q.19-->Display the vacant seats for each society.

ANS-->

```
mysql> SELECT(TotalSeats-COUNT(*))AS VACANT_SEATS
-> FROM STUDENT S,SOCIETY S1,ENROLLMENT E
-> WHERE S.ROLLNO=E.RollNo AND S1.SocID=E.SID GROUP BY(SocName);
```

```
+-----+
| VACANT_SEATS |
+-----+
|          42  |
|          21  |
|          30  |
|          52  |
|          21  |
+-----+
```

5 rows in set (0.00 sec)

Q.20-->Increment Total Seats of each society by 10%

ANS-->

```
mysql> UPDATE SOCIETY SET TotalSeats=TotalSeats*10/100+TotalSeats;
```

Query OK, 7 rows affected (0.23 sec)

Rows matched: 7 Changed: 7 Warnings: 0

```
mysql> SELECT*FROM SOCIETY;
```

```
+-----+-----+-----+-----+
| SocID | SocName      | MentorName      | TotalSeats |
+-----+-----+-----+-----+
```

1001	DHWANI	MISS MONIKA	44
1002	DHUN	MISS MONIKA	22
1003	NSS	DR. SUNITA JETLEY	55
1004	ENACTUS	DR. SINGH	33
1005	TURING	DR.SUNITA NARANG	11
1006	BOOK WITH UVA	MR KUMAR	33
1007	SASHAKT	DR. SUNITA JETLEY	22

+-----+-----+-----+-----+

7 rows in set (0.00 sec)

Q.21-->Add the enrollment fees paid ('yes'/'No') field in the enrollment table.

ANS-->

```
mysql> ALTER TABLE ENROLLMENT ADD FEES_PAID ENUM("YES","NO");
```

Query OK, 0 rows affected (1.62 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> DESCRIBE ENROLLMENT;
```

Field	Type	Null	Key	Default	Extra
RollNo	char(6)	YES	MUL	NULL	
SID	char(6)	YES	MUL	NULL	
Date_Of_Enrollment	date	YES		NULL	
FEES_PAID	enum('YES','NO')	YES		NULL	

+-----+-----+-----+-----+

4 rows in set (0.07 sec)

Q.22-->. Update date of enrollment of society id '1001' to '2018-01-15', '1002' to current date and '1003' to '2018-01-02'.

ANS-->

```
mysql> UPDATE ENROLLMENT SET DATE_OF_ENROLLMENT="2018-01-15" WHERE SID="1001";
```

Query OK, 2 rows affected (0.11 sec)

Rows matched: 2 Changed: 2 Warnings: 0

```
mysql> UPDATE ENROLLMENT SET DATE_OF_ENROLLMENT=(SELECT CURDATE())WHERE SID="1002";
```

Query OK, 1 row affected (0.10 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT*FROM ENROLLMENT;
```

RollNo	SID	Date_Of_Enrollment	FEES_PAID
1240	1001	2018-01-15	NULL
1260	1002	2024-03-04	NULL
1815	1004	2021-04-15	NULL
1603	1003	2022-06-20	NULL
1823	1003	2021-11-30	NULL
AE1004	1001	2018-01-15	NULL
XA1130	1004	2023-01-20	NULL
1240	1003	2023-02-12	NULL
1603	1004	2023-01-11	NULL

+-----+-----+-----+-----+

9 rows in set (0.00 sec)

```
mysql> UPDATE ENROLLMENT SET DATE_OF_ENROLLMENT="2018-01-02" WHERE SID="1003";
```

Query OK, 3 rows affected (0.08 sec)

Rows matched: 3 Changed: 3 Warnings: 0

mysql> SELECT*FROM ENROLLMENT;

RollNo	SID	Date_Of_Enrollment	FEES_PAID
1240	1001	2018-01-15	NULL
1260	1002	2024-03-04	NULL
1815	1004	2021-04-15	NULL
1603	1003	2018-01-02	NULL
1823	1003	2018-01-02	NULL
AE1004	1001	2018-01-15	NULL
XA1130	1004	2023-01-20	NULL
1240	1003	2018-01-02	NULL
1603	1004	2023-01-11	NULL

9 rows in set (0.03 sec)

Q.23-->Create a view to keep track of society names with the total number of students enrolled in it.

ANS-->

mysql> CREATE VIEW VIEW5 AS SELECT SocName,COUNT(*) FROM SOCIETY S1,STUDENT S,ENROLLMENT E WHERE S.ROLLNO=E.RollNo AND S1.SocID=E.SID GROUP BY(SocName);
Query OK, 0 rows affected (0.23 sec)

mysql> SELECT*FROM VIEW5;

SocName	COUNT(*)
DHWANI	2
DHUN	1
ENACTUS	3
NSS	3
SASHAKT	1

5 rows in set (0.06 sec)

Q.24-->Find student names enrolled in all the societies.

ANS-->

mysql> SELECT STUDENT_NAME FROM STUDENT S,SOCIETY S1,ENROLLMENT E WHERE S.ROLLNO=E.RollNo AND S1.SocID=E.SID GROUP BY(STUDENT_NAME) HAVING COUNT(SID)=7;
Empty set (0.04 sec)

Q.25-->Count the number of societies with more than 2 students enrolled in it

ANS-->

mysql> SELECT COUNT(SocName) FROM STUDENT S,SOCIETY S1,ENROLLMENT E WHERE S.ROLLNO=E.RollNo AND S1.SocID=E.SID GROUP BY(SID) HAVING COUNT(E.RollNo)>2 LIMIT 1;

COUNT(SocName)
3

1 row in set (0.00 sec)

Q.26-->Add column Mobile number in student table with default value '9999999999'
ANS-->

```
mysql> ALTER TABLE STUDENT ADD MOBILE_NUMBER CHAR(10) DEFAULT "9999999999";
Query OK, 0 rows affected (1.27 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT*FROM STUDENT;
```

ROLLNO	STUDENT_NAME	COURSE	DOB	MOBILE_NUMBER
1240	RISHIK CHAUDHARY	CS(HONS)	2004-04-06	9999999999
1260	MILES MORALES	CS(HONS)	2004-03-06	9999999999
1524	AJAY NAGAR	CHEM(HONS)	2003-12-25	9999999999
1603	BHAVYA CHAUDHARY	B.COM	2000-01-12	9999999999
1800	GAURAV TANDON	PMCS	2000-08-30	9999999999
1815	TANISHKA BHALLA	CHEM(HONS)	2004-07-18	9999999999
1823	YASHIKA BHALLA	LS	2003-11-12	9999999999
AE1004	ADHIRAJ SINGH	LS	2004-09-18	9999999999
XA1130	KAMAL PREET SINGH	B.COM	2005-05-20	9999999999
ZQ1212	HARMAN DEEP	ELEC(HONS)	2005-02-17	9999999999

10 rows in set (0.00 sec)

Q.27-->Find the total number of students whose age is > 20 years.

ANS-->

```
mysql> CREATE VIEW AGE AS SELECT YEAR(CURDATE())-YEAR(DOB) AS AGE_OF_STUDENTS FROM STUDENT;
Query OK, 0 rows affected (0.64 sec)
```

```
mysql> SELECT*FROM AGE;
```

AGE_OF_STUDENTS
20
20
21
24
24
20
21
20
19
19

10 rows in set (0.05 sec)

```
mysql> SELECT COUNT(*)FROM AGE WHERE AGE_OF_STUDENTS>20;;
```

COUNT(*)
4

1 row in set (0.17 sec)

Q.28-->Find names of students who are born in 2004 and are enrolled in at least one society.

ANS-->

```
mysql> SELECT STUDENT_NAME FROM STUDENT S,SOCIETY S1,ENROLLMENT E WHERE S.ROLLNO=E.RollNo
AND S1.SocID=E.SID
```

-> AND YEAR(DOB)=2004 HAVING COUNT(*)>1;

```
+-----+
| STUDENT_NAME |
+-----+
| RISHIK CHAUDHARY |
+-----+
1 row in set (0.00 sec)
```

Q.29-->Count all societies whose name starts with 'S' and ends with 't' and at least 5 students are enrolled in the society.

ANS-->

```
mysql> SELECT SocName FROM STUDENT S,SOCIETY S1,ENROLLMENT E WHERE SocName LIKE 'S%T'AND
S.ROLLNO=E.RollNo AND S1.SocID=E.SID
```

-> GROUP BY(SocName)HAVING COUNT(*)>=1;

```
+-----+
| SocName |
+-----+
| SASHAKT |
+-----+
1 row in set (0.00 sec)
```

Q.30-->Display the following information:

Society name Mentor name Total Capacity Total Enrolled Unfilled Seats

ANS-->

```
mysql> SELECT SocName,MentorName,TotalSeats AS TOTAL_CAPACITY,COUNT(*) AS
TOTAL_ENROLLED,(TotalSeats-COUNT(*))AS UNFILLED_SEATS
```

-> FROM STUDENT S,SOCIETY S1,ENROLLMENT E

-> WHERE S.ROLLNO=E.RollNo AND S1.SocID=E.SID GROUP BY(SocName);

```
+-----+-----+-----+-----+-----+
| SocName | MentorName | TOTAL_CAPACITY | TOTAL_ENROLLED | UNFILLED_SEATS |
+-----+-----+-----+-----+-----+
| DHWANI | MISS MONIKA | 44 | 2 | 42 |
| DHUN | MISS MONIKA | 22 | 1 | 21 |
| ENACTUS | DR. SINGH | 33 | 3 | 30 |
| NSS | DR. SUNITA JETLEY | 55 | 3 | 52 |
| SASHAKT | DR. SUNITA JETLEY | 22 | 1 | 21 |
+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)