NAME – DUSHYANT SINGH RATHORE ROLL NO – 2232133 COURSE – B SC MATHEMATICS (HONOURS) GE - DATABASE MANAGEMENT SYSTEMS

ASSIGNMENT-2

SUBMITTED TO-MAAM SHRUTI SHIKHA

Ques2) Create and use the following student-course database schema for a college to answer the given queries using the standalone SQL editor.

Here, Roll No (ADMISSION) and CID (ADMISSION) are foreign keys. Note that course type may have two values viz. Fulltime and Parttime and a student may enrol in any number of courses.

ANSWER

Roll_No	Student_Name	Course_ID	DOB
S001	Jahanvi	C001	1998-05-15
S002	Lakshita	C002	1999-02-28
S003	Arhaan	C003	2000-08-10
S004	Bilal	C004	1997-11-20
S005	Esha	C004	1996-04-05
S006	PRIYANSHI	C001	1999-09-12
S007	Shrishti	C004	1998-07-18
S008	Mansi	C006	2001-01-22
S009	Karan	C005	1997-03-08
S010	Dushyant	C009	2002-06-30
S011	Garvit	C008	1995-10-14
S012	Jatin	C005	2003-04-25
S013	Chandrika	C006	1998-12-03
S014	Elvis	C007	1996-08-28
S015	Arhaan	C001	2000-11-17
S016	Liza	C008	1999-01-07
S017	Mia	C002	1997-06-19
S018	Neil	C005	2001-09-09
S019	Ismail	C002	1994-12-11
S020	Alex	C001	1995-03-26

ROLL_NO CID DATE_OF_ADMISSION	mysql> select * from admission; +				
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S015 C009 2022-09-08 S016 C006 2022-08-17 S017 C002 2022-07-15 S018 C002 2022-01-28 S018 C010 2022-01-28	: :	:			
S016 C006 2022-08-17 S017 C002 2022-07-15 S018 C002 2022-01-28 S018 C010 2022-01-28		:			
S017 C002 2022-07-15 S018 C002 2022-01-28 S018 C010 2022-01-28	: :	: :			
S018 C002 2022-01-28 S018 C010 2022-01-28		:			
S018 C010 2022-01-28					
2022 01 20	: :	:			
S019 C001 2022-01-20		:			
S020 C005 2022-01-20					
S020 C003 2022-07-20					
	3020 				

CID	COURSE_NAME	course_type	TEACHER_IN_CHARGE	TOTAL_SEATS	DURATION
C001	Philosophy	Part-Time	Pradeep	24	45
C002	Physics	Full-Time	Shridhar	125	50
C003	History	Part-Time	Preeti	35	55
C004	Computer Science	Part-Time	Ashmit	40	75
C005	English	Part-Time	Usmaan	35	40
C006	Mathematics	Full-Time	Roger	150	60
C007	Physics	Full-Time	Harish	126	45
C008	Geography	Full-Time	Farhaan	18	35
C009	Science	Full-Time	Adhiraj	68	25
C010	English	Part-Time	Sarah	135	90

Questions

1. Retrieve names of students enrolled in any course.

```
mysql> select Student_Name from student
   -> where course_id is not null;
| Student_Name |
 Jahanvi
 Lakshita
 Arhaan
 Bilal
 Esha
 Danish
 Shrishti
 Mansi
 Karan
 Dushyant
 Garvit
 Jatin
 Chandrika
 Elvis
 Arhaan
 Liza
 Mia
 Neil
 Ismail
 Alex
20 rows in set (0.00 sec)
```

2. Retrieve names of students enrolled in at least one part time course.

```
mysql> select distinct student.student_name from student
    -> join admission on student.roll_no=admission.roll_no
    -> join course on admission.CID=course.CID
    -> where course_type="Part-Time";
 student_name |
  Lakshita
  Arhaan
  Bilal
  Mansi
  Karan
  Dushyant
  Jatin
  Chandrika
  Elvis
  Neil
  Ismail
 Alex
12 rows in set (0.00 sec)
```

3. Retrieve students' names starting with letter 'A'.

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

5. Retrieve students' names whose roll no either starts with 'S' and ends with '9'

6. Find course details with more than N students enrolled where N is to be input by the user.

```
mysql> SET @N=4;
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT course.CID, course.COURSE_NAME, COUNT(admission.Roll_No) AS No_of_students_enrolled
    -> FROM course
    -> JOIN admission ON course.cid = admission.cid
    -> GROUP BY course.cid, course.COURSE_NAME
-> HAVING No_of_students_enrolled > @N;
  CID
       COURSE_NAME
                        No_of_students_enrolled |
  C009
                                                 6
         Science
  C006
         Mathematics
  C002
         Physics
                                                10
  C010
         English
  C007
         Physics
  rows in set (0.00 sec)
```

7. Update student table for modifying a student name.

```
mysql> UPDATE STUDENT
-> SET STUDENT_NAME="PRIYANSHI"
-> WHERE ROLL_NO='S006';
Query OK, 1 row affected (0.52 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

8. Find course names in which more than five students have enrolled

```
mysql> SELECT course.CID, course.COURSE_NAME, COUNT(admission.Roll_No) AS No_of_students_enrolled
     -> FROM course
    -> JOIN admission ON course.cid = admission.cid
    -> GROUP BY course.cid, course.COURSE_NAME
-> HAVING No_of_students_enrolled > 5;
 CID
       | COURSE_NAME | No_of_students_enrolled |
  C009
         Science
                                                  10
  C002
         Physics
         English
 C010
 C007
         Physics
 rows in set (0.00 sec)
```

9. Find the name of youngest student enrolled in course 'English'

10. Find the name of most popular Subject (on the basis of enrolled students).

11. Find the name of two popular part time courses (on the basis of enrolled students)

12. Find the student names who are admitted to full time courses only.

```
mysql> SELECT distinct(student.student_name)
    -> FROM student
   -> JOIN admission ON student.Roll_No = admission.Roll_No
   -> JOIN course ON admission.cid = course.cid
   -> WHERE course.course_type = 'full-time';
 student_name
 Jahanvi
 Lakshita
 Bilal
 Esha
 PRIYANSHI
 Shrishti
 Mansi
 Garvit
 Jatin
 Elvis
 Arhaan
 Mia
 Neil
13 rows in set (0.00 sec)
```

13. Find course names in which total seats are more than 30.

15. Find course names where teacher-in-charge has 'Roger' as name and the course is full time.

```
mysql> select course_name from course where teacher_in_charge='Roger' and course_type='full-time';
+------+
| course_name |
+-----+
| Mathematics |
+-----+
1 row in set (0.00 sec)
```

17. Display the vacant seats for each course

```
mysql> SELECT course.cid,course.COURSE_NAME,course.total_seats - COUNT(distinct(admission.roll_no)) AS vacant_seats
   -> FROM course JOIN
          admission ON course.cid = admission.cid
   -> GROUP BY
          course.cid, course.COURSE_NAME, course.total_seats;
 cid | COURSE_NAME
                         | vacant_seats |
 C001 | Philosophy
                                     25
 C002 | Physics
                                    140
 C003 | History
                                     39
 C004 | Computer Science
                                     47
 C005 | English
                                     38
 C006 | Mathematics
                                    175
 C007 | Physics
                                    145
 C009 | Science
                                     76
 C010 | English
                                    156
9 rows in set (0.03 sec)
```

```
mysql> Update Course
    -> Set Total_Seats = Total_Seats + ROUND(0.2*Total_Seats);
Query OK, 10 rows affected (0.52 sec)
Rows matched: 10 Changed: 10 Warnings: 0
mysql> select * from course;
 CID
         COURSE_NAME
                             course_type | TEACHER_IN_CHARGE | TOTAL_SEATS |
                                                                               DURATION
         Philosophy
  C001
                             Part-Time
                                           Pradeep
                                                                          29
                                                                                     45
                             Full-Time
  C002
         Physics
                                           Shridhar
                                                                         150
                                                                                     50
  C003
         History
                             Part-Time
                                           Preeti
                                                                          42
                                                                                     55
  C004
         Computer Science
                             Part-Time
                                                                          48
                                                                                     75
                                           Ashmit
  C005
         English
                             Part-Time
                                           Usmaan
                                                                          42
                                                                                     40
                             Full-Time
  C006
         Mathematics
                                                                         180
                                                                                     60
                                           Roger
  C007
         Physics
                             Full-Time
                                           Harish
                                                                         151
                                                                                     45
         Geography
                             Full-Time
                                                                                     35
  C008
                                           Farhaan
                                                                          22
  C009
                             Full-Time
         Science
                                            Adhiraj
                                                                          82
                                                                                     25
                             Part-Time
  C010
         English
                                           Sarah
                                                                         162
                                                                                     90
  rows in set (0.00 sec)
```

19. Add enrolment fees paid ('yes'/'No') field in the admission table.

```
mysql> ALTER TABLE admission
    -> ADD COLUMN fees_paid VARCHAR(3);
Query OK, 0 rows affected (0.79 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> UPDATE Admission
    -> SET fees_paid = 'yes';
Query OK, 45 rows affected (0.46 sec)
Rows matched: 45 Changed: 45 Warnings: 0
```

20. Update the date of admission for all the courses by 1 year.

```
mysql> UPDATE admission
-> SET date_of_admission = DATE_ADD(date_of_admission, INTERVAL 1 YEAR);
Query OK, 45 rows affected (0.44 sec)
Rows matched: 45 Changed: 45 Warnings: 0
```

21. Create a view to keep track of course names with total number of students enrolled in it.

```
mysql> CREATE VIEW CourseEnrollmentView AS
    -> SELECT
    ->
            course.cid,
            course.COURSE_NAME,
    ->
            COUNT(admission.roll_no) AS Total_Students_Enrolled
    -> FROM
            course
    -> JOIN
    ->
            admission ON course.cid = admission.cid
    -> GROUP BY
-> course.cid, course.COURSE_NAME;
Query OK, 0 rows affected (0.47 sec)
mysql> select * from courseenrollmentview;
  cid
        | COURSE_NAME
                               Total_Students_Enrolled
  C009
         Science
                                                        6
  C006
         Mathematics
                                                        5
  C002
         Physics
                                                       10
         English
                                                        6
  C010
         Physics
Philosophy
  C007
                                                        6
  C001
                                                        Ц
  C005
         English
         History
  C003
                                                        3
  C004
         Computer Science
                                                        1
  rows in set (0.12 sec)
```

22. Count the number of courses with more than 5 students enrolled for each type of course.

23. Add column Mobile number in student table with default value '99999999999'

```
mysql> ALTER TABLE student
-> ADD COLUMN Mobile_number VARCHAR(10) DEFAULT '9999999999';
Query OK, 0 rows affected (1.28 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from student;
 Roll_No
           П
             Student_Name
                               Course_ID
                                             DOB
                                                             Mobile_number
                                              1998-05-15
                                                             999999999
  S001
              Jahanvi
                               C001
                                              1999-02-28
                                                             999999999
  S002
              Lakshita
                               C002
                                                             999999999
  S003
              Arhaan
                               C003
                                              2000-08-10
  S004
              Bilal
                               C004
                                              1997-11-20
                                                             999999999
  S005
              Esha
                               C004
                                              1996-04-05
                                                             999999999
  S006
              PRIYANSHI
                               C001
                                              1999-09-12
                                                             999999999
  S007
              Shrishti
                               C004
                                              1998-07-18
                                                             999999999
                                              2001-01-22
                                                             999999999
  S008
              Mansi
                               C006
                                              1997-03-08
                                                             999999999
  S009
              Karan
                               C005
                                              2002-06-30
                                                             999999999
  S010
              Dushvant
                               C009
                                              1995-10-14
                                                             999999999
  5011
              Garvit
                               C008
                                              2003-04-25
                                                             999999999
  S012
              Jatin
                               C005
                                              1998-12-03
                                                             999999999
  S013
              Chandrika
                               C006
  S014
              Elvis
                               C007
                                              1996-08-28
                                                             999999999
  S015
              Arhaan
                               C001
                                              2000-11-17
                                                             999999999
              Liza
  S016
                               C008
                                              1999-01-07
                                                             999999999
                                              1997-06-19
                                                             999999999
  S017
              Mia
                               C002
  S018
              Neil
                               C005
                                              2001-09-09
                                                             999999999
                                              1994-12-11
                                                             999999999
  S019
              Ismail
                               C002
                                              1995-03-26
                                                             999999999
  S020
              Alex
                               C001
  rows in set (0.05 sec)
```

24. Find the total number of students whose age is > 18 years.

25. Find names of students who are born in 2001 and are admitted to at least one part time course.

26. Count all courses having 'science' in the name and starting with the word 'Computer'.