# A PRACRICALS LAB REPORT

Submitted in the partial fulfilment for the Course of

# **CSA0516** Database Management Systems for Network Security

to the award of the degree of

# **BACHELOR OF ENGINEERING**

IN

# ARTIFICIAL INTELLIGENCE AND MEACHINE LEARNING

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# **SIMATS ENGINEERING**

**Saveetha Institute of Medical and Technical Sciences** 

**Chennai-602105** 

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# DDL Commands – CREATE, ALTER, DROP

RegNo     Name     Gender     DOB     MobileNo     City   +	TABLE STUDENT	NO YES YES YES YES	PRI	NULL NULL NULL NULL NULL								
6 rows in set	TABLE STUDENT											
				6 rows in set (0.01 sec)								
mysql> ALTER TABLE STUDENT ADD Email VARCHAR(50); Query OK, 0 rows affected (0.04 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> DESC STUDENT;												
+		   Null	<del>।</del> Кеу	Default	+ Extra							
+   RegNo   Name   Gender   DOB   MobileNo   City   Email	int varchar(50) varchar(15) date varchar(15) varchar(15) varchar(50)	NO YES YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL NULL NULL								
+												
mysql> ALTER TABLE STUDENT DROP COLUMN City; Query OK, 0 rows affected (0.01 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> DESC STUDENT;												
Field	<del>-</del> Type	Null	Key	Default	Extra							
RegNo     Name     Gender     DOB     MobileNo     Email   +	int   varchar(50)   varchar(15)   date   varchar(15)   varchar(50)	NO YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL NULL								

## DDL Commands with Constraints - PRIMARY, FOREIGN

#### KEY, UNIQUE, CHECK

```
RegNo INT PRIMARY KEY,
                         nave an error in your sqL syncax; check the manua
    Name VARCHAR(50) NOT NULL
    Gender VARCHAR(15),' at line 1
mysql> ALTER TABLE STUDENT
    -> ADD CONSTRAINT pk_student PRIMARY KEY (RegNo);
ERROR 1068 (42000): Multiple primary key defined
mysql> ALTER TABLE STUDENT
    -> ADD CONSTRAINT ug_mobile UNIQUE (MobileNo);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> ALTER TABLE STUDENT
-> ADD CONSTRAINT chk_gender CHECK (Gender IN ('Male', 'Female'));
Query OK, 4 rows affected (0.06 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> DESC STUDENT;
Field
             Type
                            Null | Key | Default | Extra
 RegNo
             int
                            NO
                                    PRI
                                          NULL
                                          NULL
             varchar(50)
                            YES
  Name
             varchar(15)
 Gender
                            YES
                                          NULL
  DOB
             date
                                          NULL
                            YES
  MobileNo
             varchar(15)
                            YES
                                    UNI
                                          NULL
  Email
             varchar(50)
                            YES
                                          NULL
6 rows in set (0.00 sec)
```

## DML Commands – INSERT, SELECT, UPDATE, DELETE

RegNo	Name	Gender	DOB	MobileNo	Email		
101   102   103   104	Priya Sharma Rahul Verma	Female Male	2003-08-21 2001-12-03	9876501234	NULL NULL NULL NULL		
uysql> SELECT * FROM STUDENT WHERE Gender = 'Female';							
ysql> SE	LECT * FROM STU	JDENT WHE	RE Gender = 'F	emale';			
nysql> SE + RegNo		JDENT WHER	<del> </del>	·	   Email		

# SELECT with various clause – WHERE, pattern matching

mysql> SELECT * FROM STUDENT;								
RegNo	Name	Gender	DOB	MobileNo	Email			
101 102 103	Priya Sharma	Female		987650123	ł   NULL			
3 rows in	3 rows in set (0.00 sec)							
mysql> SELECT * FROM STUDENT WHERE DOB > '2002-05-14';								
RegNo	Name	Gender	DOB	MobileNo	Email			
102	Priya Sharma	Female	2003-08-21	987650123	I NULL			
1 row in set (0.00 sec)								
mysql> SELECT * FROM STUDENT WHERE Name LIKE 'A%';								
RegNo	Name (	Gender	DOB	MobileNo	Email			
101	Amit Kumar   Male		2002-05-14	9347773722	NULL			
1 row in set (0.00 sec)								

## SELECT with various clause – BETWEEN, IN, Aggregate

#### **Function**

```
mysql> SELECT * FROM STUDENT
    -> WHERE RegNo BETWEEN 101 AND 103;
 RegNo | Name
                         Gender
                                  DOB
                                               MobileNo
                                                            Email
         Amit Kumar
   101
                         Male
                                  2002-05-14
                                               9347773722
                                                            NULL
         Priya Sharma
   102
                         Female
                                  2003-08-21
                                               9876501234
                                                            NULL
   103 | Rahul Verma
                         Male
                                  2001-12-03
                                               9876512345
                                                            NULL
3 rows in set (0.00 sec)
mysql> SELECT * FROM STUDENT
    -> WHERE RegNo IN (101, 103, 104);
 RegNo
                       Gender DOB
                                              MobileNo
                                                           Email
         Name
                                              9347773722
    101
         Amit Kumar
                        Male
                                 2002-05-14
                                                           NULL
   103
         Rahul Verma
                                 2001-12-03
                                              9876512345
                                                           NULL
                        Male
2 rows in set (0.00 sec)
mysql> SELECT Gender, COUNT(*) AS CountByGender
    -> FROM STUDENT
    -> GROUP BY Gender;
 Gender | CountByGender
 Male
                       2
 Female
                       1
2 rows in set (0.00 sec)
```

## SELECT with various clause – GROUP BY, HAVING, ORDERBY

```
mysql> SELECT Gender, COUNT(*) AS TotalStudents
   -> FROM STUDENT
   -> GROUP BY Gender
   -> HAVING COUNT(*) >= 2;
 Gender | TotalStudents
 Male
                       2 I
 row in set (0.00 sec)
nysql> SELECT * FROM STUDENT
   -> ORDER BY DOB DESC;
 RegNo | Name
                       | Gender | DOB
                                               MobileNo
                                                            Email
         Priya Sharma
                                  2003-08-21
                                               9876501234
                                                             NULL
   102
                         Female
   101
         Amit Kumar
                         Male
                                  2002-05-14
                                               9347773722
                                                             NULL
                                  2001-12-03
   103 | Rahul Verma
                         Male
                                               9876512345
                                                             NULL
3 rows in set (0.00 sec)
nysql> SELECT Gender, COUNT(*) AS TotalStudents
   -> FROM STUDENT
   -> GROUP BY Gender;
 Gender | TotalStudents
 Male
                       2
 Female
                       1
 rows in set (0.00 sec)
```

# SubQuery& Correlated Query

```
mysql> SELECT Name, Marks
    -> FROM STUDENT2
    -> WHERE Marks > (SELECT AVG(Marks) FROM STUDENT2);
        Marks
 Name
 Amit
            85
            92
  Neha
  Priya |
            88
 Kiran |
            95 l
4 rows in set (0.00 sec)
mysql> SELECT S1.Name, S1.City, S1.Marks
    -> FROM STUDENT2 S1
    -> WHERE Marks = (
          SELECT MAX(S2.Marks)
          FROM STUDENT2 S2
          WHERE S1.City = S2.City
    -> );
        City
                  Marks
 Name
        Delhi
  Amit
                      85
  Priya | Chennai
                      88
 Kiran | Mumbai
                      95 I
3 rows in set (0.00 sec)
```

## Joins – EquiJoin, InnerJoin, OuterJoin

```
mysql> SELECT STUDENT2.RegNo, STUDENT2.Name, COURSE.CourseName
    -> FROM STUDENT2, COURSE
    -> WHERE STUDENT2.RegNo = COURSE.RegNo;
 RegNo Name
                 CourseName
    101 l
         Amit
                  DBMS
                   ΑI
    102
         Neha
    103
         Raj
                   ML
    104
                   DBMS
         Priya
    106 | Simran | Networks
5 rows in set (0.00 sec)
mysql> SELECT S.RegNo, S.Name, C.CourseName
    -> FROM STUDENT2 S
    -> INNER JOIN COURSE C
    -> ON S.RegNo = C.RegNo;
 RegNo | Name
                 CourseName
    101
        | Amit
                  DBMS
         Neha
                   ΑI
    102
    103
         Raj
                   ML
         Priya
                  DBMS
    104
    106
        Simran
                 Networks
5 rows in set (0.00 sec)
mysql> SELECT S.RegNo, S.Name, C.CourseName
   -> FROM STUDENT2 S
    -> LEFT JOIN COURSE C
    -> ON S.RegNo = C.RegNo;
 RegNo | Name
                 CourseName
         Amit
                  DBMS
    101
    102
         Neha
                  ΑI
    103
         Raj
                   ML
    104
         Priva
                  DBMS
    105
         Kiran
                   NULL
    106
        | Simran | Networks
6 rows in set (0.00 sec)
```

## VIEW, INDEX, SEQUENCE

```
mysql> SELECT S.RegNo, S.Name, C.CourseName
    -> FROM STUDENT2 S
    -> INNER JOIN COURSE C
    -> ON S.RegNo = C.RegNo;
  RegNo | Name
                 CourseName
    101 | Amit
                  DBMS
                  ΑI
    102
         Neha
       Raj
    103
                  ML
    104
         Priya
                  DBMS
    106 | Simran
                 Networks
5 rows in set (0.00 sec)
mysql> SELECT S.RegNo, S.Name, C.CourseName
    -> FROM STUDENT2 S
    -> LEFT JOIN COURSE C
    -> ON S.RegNo = C.RegNo;
 RegNo Name
                 CourseName
                 DBMS
    101 | Amit
    102
       Neha
                  ΑI
    103
         Raj
                  ML
    104 | Priva
                  DBMS
    105
        Kiran
                  NULL
    106 | Simran
                 Networks
6 rows in set (0.00 sec)
mysql> CREATE VIEW StudentView AS
    -> SELECT RegNo, Name, City, Marks
    -> FROM STUDENT2
    -> WHERE Marks > 80;
Query OK, 0 rows affected (0.01 sec)
mysql> SELECT * FROM StudentView;
 RegNo Name
                | City
                           Marks
    101 | Amit
                 Delhi
                              85
                 Mumbai
                              92
    102
         Neha
    104 l
         Priva |
                 Chennai
                              88
        | Kiran | Mumbai
    105
                              95
```

Simple programming exercises using CASE, IF, ITERATE,

### LEAVE, LOOP

```
mysql> CREATE TABLE STUDENT3 (
                 RegNo INT AUTO_INCREMENT PRIMARY KEY,
      ->
                 Name VARCHAR(50),
      ->
                 Gender VARCHAR(10),
                DOB DATE,
MobileNo VARCHAR(15),
      ->
      ->
                City VARCHAR(30),
      ->
                Marks INT
      ->
      -> );
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO STUDENT3 (Name, Gender, DOB, MobileNo, City, Marks) VALUE
-> ('Amit', 'Male', '2002-05-10', '9876543210', 'Delhi', 85),
-> ('Neha', 'Female', '2003-01-15', '9876501234', 'Mumbai', 92),
-> ('Raj', 'Male', '2002-11-20', '9876512345', 'Delhi', 76);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM STUDENT3
      -> SELECT * FROM STUDENT3;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual t
ELECT * FROM STUDENT3' at line 2
mysql> SELECT * FROM STUDENT3;
   RegNo | Name | Gender | DOB
                                                        MobileNo
                                                                            City
                                                                                         Marks
                                    | 2002-05-10 | 9876543210
| 2003-01-15 | 9876501234
| 2002-11-20 | 9876512345
                                                                                                85
         1
               Amit | Male
                                                                              Delhi
               Neha
                                                                                                92
         2
                         Female
                                                                              Mumbai
         3 | Raj
                         Male
                                                                              Delhi
                                                                                                76
3 rows in set (0.00 sec)
```

Simple programming exercises using REPEAT, WHILE

```
mysql> SELECT Gender, COUNT(*) AS TotalStudents
   -> FROM STUDENT
   -> GROUP BY Gender
   -> HAVING COUNT(*) >= 2;
 Gender | TotalStudents
 Male
                       2 |
 row in set (0.00 sec)
nysql> SELECT * FROM STUDENT
   -> ORDER BY DOB DESC;
 RegNo | Name
                        Gender | DOB
                                               MobileNo
                                                            Email
         Priya Sharma
                         Female
                                                             NULL
   102
                                  2003-08-21
                                               9876501234
   101
         Amit Kumar
                         Male
                                  2002-05-14
                                               9347773722
                                                             NULL
   103 | Rahul Verma
                         Male
                                  2001-12-03
                                               9876512345
                                                             NULL
 rows in set (0.00 sec)
mysql> SELECT Gender, COUNT(*) AS TotalStudents
   -> FROM STUDENT
   -> GROUP BY Gender;
 Gender | TotalStudents
                       2
 Male
                       1
 Female |
 rows in set (0.00 sec)
```

TCL Commands – COMMIT, ROLLBACK, SAVEPOINT

```
mysql> INSERT INTO STUDENT4 (Name, City, Marks) VALUES
-> ('Amit', 'Delhi', 85),
-> ('Neha', 'Mumbai', 92),
-> ('Raj', 'Delhi', 76);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)
mysql>
mysql> INSERT INTO STUDENT4 (Name, City, Marks) VALUES
-> ('Priya', 'Chennai', 88);
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> COMMIT;
Query OK, 0 rows affected (0.01 sec)
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)
mysql>
mysql>
mysql> INSERT INTO STUDENT4 (Name, City, Marks) VALUES
-> ('Kiran', 'Mumbai', 95);
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> ROLLBACK;
Query OK, 0 rows affected (0.00 sec)
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)
mysal>
mysql> INSERT INTO STUDENT4 (Name, City, Marks) VALUES
-> ('Simran', 'Chennai', 70);
Query OK, 1 row affected (0.00 sec)
mysql> SAVEPOINT sp1;
Query OK, 0 rows affected (0.00 sec)
mvsal>
mysql> INSERT INTO STUDENT4 (Name, City, Marks) VALUES
-> ('Vikram', 'Delhi', 75);
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> ROLLBACK TO sp1; -- Undo onl
Query OK, 0 rows affected (0.00 sec)
                                             – Undo only Vikram's insert
mysql>
mysql> COMMIT;
                          -- Save Simran
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT * FROM STUDENT4
-> SELECT * FROM STUDENT4;
ERROR 1064 (42000): You have an error in your SQL syntax;
mysql> SELECT * FROM STUDENT4;
| RegNo | Name
                              | City
                                               Marks
                 Amit
                                Delhi
                                                       85
          2
                 Neha
                                Mumbai
                                                       92
                Raj
Priya
          3
                                                       76
                                Delhi
          4
                                Chennai
                                                       88
          6
                Simran
                              l Chennai
                                                       70
5 rows in set (0.00 sec)
```

#### DCL Commands - GRANT, REVOKE

```
mysql> REVOKE INSERT

-> ON studentdb.STUDENT3
-> FROM 'student_user'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> SHOW GRANTS FOR 'student_user'@'localhost';

| Grants for student_user@localhost
| GRANT USAGE ON *.* TO 'studentdb'.* TO 'student_user'@'localhost' WITH GRANT OPTION |
| GRANT SELECT, UPDATE ON 'studentdb'.*student3' TO 'student_user'@'localhost' |
| 3 rows in set (0.01 sec)

mysql> REVOKE ALL PRIVILEGES
-> ON studentdb.*
-> FROM 'student_user'@'localhost';
Query OK, 0 rows affected (0.02 sec)

mysql> SHOW GRANTS FOR 'student_user'@'localhost';
| Grants for student_user@localhost
| GRANT USAGE ON *.* TO 'student_user'@'localhost';
| GRANT USAGE ON *.* TO 'student_user'@'localhost' WITH GRANT OPTION |
| GRANT USAGE ON 'studentdb'.* TO 'student_user'@'localhost' WITH GRANT OPTION |
| GRANT USAGE ON 'studentdb'.* TO 'student_user'@'localhost' WITH GRANT OPTION |
| GRANT SELECT, UPDATE ON 'studentdb'.'student3' TO 'student_user'@'localhost' |
| To studentdb'.* TO 'student_user'@'localhost' WITH GRANT OPTION |
| GRANT SELECT, UPDATE ON 'studentdb'.'student3' TO 'student_user'@'localhost' |
| To studentdb'.* TO 'studentdb'.'studentdb'.'studentguser'@'localhost' |
| To studentdb'.* TO 'student_user'@'localhost' WITH GRANT OPTION |
| GRANT SELECT, UPDATE ON 'studentdb'.'student3' TO 'student_user'@'localhost' |
| To studentdb'.* TO 'studentdb'.'studentguser'@'localhost' |
| To studentguser'@'localhost' WITH GRANT OPTION |
| GRANT SELECT, UPDATE ON 'studentdb'.'studentguser'@'localhost' |
| To studentguser'@'localhost' |
| To studentguser'@'localhost' WITH GRANT OPTION |
| To studentguser'@'localhost' |
```

#### **Procedures**

```
mysql>
mysql> DELIMITER ;
mysql>
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE GetTopStudents (
            IN p_MinMarks INT
    ->
    -> )
    -> BEGIN
            SELECT RegNo, Name, Marks
FROM STUDENT3
    ->
            WHERE Marks >= p_MinMarks;
    -> END //
Query OK, 0 rows affected (0.03 sec)
mysql>
mysql> DELIMITER ;
mysql>
mysql> CALL InsertStudent('Simran', 'Female', '2003-03-18', '9876549999', 'D
elhi', 91);
Query OK, 1 row affected (0.01 sec)
mysql>
mysql> CALL GetTopStudents(80);
  RegNo
                    Marks
         Name
      1
           Amit
                        85
      2
                        92
           Neha
      3
           Amit
                        85
      4
                        92
           Neha
      6
           Priya
                        88
      7
           Kiran
                        95
      8
                        91
           Simran
7 rows in set (0.00 sec)
Query OK, 0 rows affected (0.02 sec)
mysql> |
```

#### **Function**

```
Database changed
mysql>
mysql> DELIMITER //
mysql>
mysql> CREATE FUNCTION GetGrade(marks INT)
   -> RETURNS VARCHAR(10)
   -> DETERMINISTIC
    -> BEGIN
           DECLARE grade VARCHAR(10);
    ->
           IF marks >= 90 THEN
               SET grade = 'A+';
    ->
           ELSEIF marks >= 80 THEN
    ->
               SET grade = 'A'
    ->
           ELSEIF marks >= 70 THEN
    ->
               SET grade = 'B';
    ->
           ELSEIF marks >= 60 THEN
    ->
               SET grade = 'C';
    ->
    ->
           ELSE
    ->
               SET grade = 'F';
           END IF;
    ->
           RETURN grade;
    -> END //
Query OK, 0 rows affected (0.01 sec)
mysql>
mysql> DELIMITER ;
mysql>
mysql> SELECT RegNo, Name, Marks, GetGrade(Marks) AS Grade FROM STUDENT3;
                  | Marks | Grade |
 RegNo | Name
      1
          Amit
                       85
                            Α
      2
          Neha
                       92
                            Α+
          Amit
      3
                       85
                            Α
      4
                       92
                            Α+
          Neha
      5
                       76
                            В
          Raj
          Priya
      6
                      88
                            Α
      7
          Kiran
                       95
                            A+
      8
          Simran
                       91
                            A+
8 rows in set (0.00 sec)
mvsal> |
```

#### Cursors

```
mysql> USE studentdb;
Database changed
oucauase changed
mysql>
mysql> DELIMITER //
mysql>
mysql>
mysql> CREATE PROCEDURE ShowStudentMarks()
-> BEGIN
-> DECLARE done INT DEFAULT 0;
-> DECLARE sName VARCHAR(50);
              DECLARE done INT DEFAULT 0;
DECLARE sName VARCHAR(50);
DECLARE sMarks INT;
DECLARE sMarks INT;
DECLARE cur CURSOR FOR SELECT Name, Marks FROM STUDENT3;
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
               OPEN cur;
     ->
->
->
               read_loop: LOOP
FETCH cur INTO sName, sMarks;
IF done = 1 THEN
    LEAVE read_loop;
END IF;
SELECT; sName AS Name, sMarks AS Marks;
      ->
                END LOOP;
-> CLOSE cur;
-> END //
Query OK, 0 rows affected (0.02 sec)
mysql>
mysql> DELIMITER ;
mysql>
mysql> CALL ShowStudentMarks();
  Name | Marks |
| Amit | 85 |
1 row in set (0.00 sec)
| Name | Marks |
| Neha | 92 |
1 row in set (0.00 sec)
| Name | Marks |
| Amit | 85 |
1 row in set (0.00 sec)
| Name | Marks |
| Neha | 92 |
1 row in set (0.00 sec)
| Name | Marks |
| Raj | 76 |
1 row in set (0.01 sec)
| Name | Marks |
| Priya | 88 |
1 row in set (0.01 sec)
| Name | Marks |
| Kiran |
1 row in set (0.01 sec)
| Name | Marks |
| Simran |
                     91 |
l row in set (0.01 sec)
```

# **Triggers**

```
DNOW, 1807 (17090); Lan't create database "studentop"; database exists

systel. SGE studentop;

Database changed

### FAILE STUDENT AND ESTADENT PRIMARY MEY,

- Regio INT AND ENCHARCIS),
- OSG NATE,
- ROBER LANGUARCIS),
- OSG NATE,
- ROBER LANGUARCIS),
- City VAROMARCIS,
- Lastipotated TimeSTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
- ;
- ;
- ;
- ;
- [CREATE TABLE STUDENTS AND THE MARK MEY,
- Regio INT,
- Name VAROMARCIS),
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO_INCREMENT PRIMARY MEY,
- Regio INT,
- Name VAROMARCIS,
- Action INTO STUDENTS INTO STUDENTS (Messe Gender, DOS, RobileNo, City, Marke)
- VALUES (MEW.Regio, New Name, "INTERFED");
- PROMO, ISSO ("Readly," Interfed Post Action)
- VALUES (MEW.Regio, New Name, "INTERFED");
- PROMO, ISSO ("Readly," Interfed Post Action)
- VALUES (MEW.Regio, New Name, "INTERFED");
- PROMO, ISSO ("Readly," Interfed Post Action)
- VALUES (MEW.Regio, New Name, "INTERFED");
- PROMO, ISSO ("Readly," Interfed Post Action)
- VALUES (MEW.Regio, New Name, "INTERFED");
- PROMO, ISSO ("Readly," Interfed Post Action)
- VALUES (MEW.Regio, New Name, "INTERFED POST ACTION POST A
```

#### **String Functions**

```
mysql> -- Create table
mysql> CREATE TABLE student2 (
-> RegNo INT PRIMARY KEY AUTO_INCREMENT,
-> Name VARCHAR(50),
-> Gender VARCHAR(10),
-> City VARCHAR(30)
-> );
Query OK, 0 rows affected (0.02 sec)
mysql>
mysql>
mysql> -- Insert sample records
mysql> INSERT INTO student2 (Name, Gender, City) VALUES
-> ('Ramesh', 'Male', 'Hyderabad'),
-> ('Suresh', 'Male', 'Delhi'),
-> ('Geeta', 'Female', 'Mumbai'),
-> ('Anita', 'Female', 'Chennai');
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> -- 1. REPLACE: Replace 'esh' with 'Kumar' in Name
mysql> SELECT Name, REPLACE(Name, 'esh', 'Kumar') AS ModifiedName
-> FROM student2;
 | Name | ModifiedName |
| Ramesh | RamKumar
| Suresh | SurKumar
| Geeta | Geeta
| Anita | Anita
4 rows in set (0.00 sec)
mysql>
mysql> -- 2. REPEAT: Repeat the City name 2 times
mysql> SELECT City, REPEAT(City, 2) AS RepeatedCity
-> FROM student2;
                      | RepeatedCity
| City
| Hyderabad | HyderabadHyderabad
| Delhi | DelhiDelhi
| Mumbai | MumbaiMumbai
| Chennai | ChennaiChennai
4 rows in set (0.00 sec)
mysql>
mysql> -- 3. RIGHT: Get last 3 characters of Name
mysql> SELECT Name, RIGHT(Name, 3) AS LastThreeChars
. -> FROM student2;
| Name | LastThreeChars |
   Ramesh | esh
Suresh | esh
   Geeta
                   | eta
| ita
 Anita
4 rows in set (0.00 sec)
mysql>
mysql> -- 4. RPAD: Pad Name with '*' to make it 10 characters long
mysql> SELECT Name, RPAD(Name, 10, '*') AS PaddedName
-> FROM student2;
 Name
                  | PaddedName |
   Ramesh | Ramesh****
Suresh | Suresh****
Geeta | Geeta****
Anita | Anita****
Geeta
Anita
4 rows in set (0.00 sec)
mysql>
mysql> -- Display all contents of table at end
mysql> SELECT * FROM student2;
 | RegNo | Name | Gender | City
                    Ramesh | Male
Suresh | Male
Geeta | Female
Anita | Female
                                                          Hyderabad
                                                         Delhi
                                                          Mumbai
            4
                     Anita
                                     Female
                                                         Chennai
4 rows in set (0.00 sec)
```

Database Connectivity - Using PhP& MySQL

