

```
root@opensolaris:~# /opt/sampstack/mysql/bin/mysql -uroot -pnazrul
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 1
Server version: 5.0.51a MySQL Community Server (GPL)
```

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| test |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> use test
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

```
Database changed
mysql> show tables
-> ;
```

```
+-----+
| Tables_in_test |
+-----+
| enumtabl_log |
| enumtabl_log1 |
| enumtbl |
| stud |
+-----+
4 rows in set (0.00 sec)
```

From Query Browser on Windows Machine:-

```
SELECT * INTO OUTFILE 'C:/abcd.txt' FROM mca
```

NOTE-This above text file gets created in C Drive

From Command Line on Solaris Machine:-

```
mysql> select * into outfile "1234.txt" from stud;
```

Query OK, 5 rows affected (0.03 sec)

NOTE-This above text file gets created in the location /opt/sampstack/mysql/data/test/1234.txt

```
mysql>
```

```
root@opensolaris:~# /opt/sampstack/mysql/bin/mysqldump -uroot -pnazrul --xml test stud;
```

```
<?xml version="1.0"?>
```

```
<mysqldump xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
<database name="test">
```

```
  <table_structure name="stud">
```

```
    <field Field="ROLL" Type="int(11)" Null="YES" Key="" Extra="" />
```

```
    <field Field="NAME" Type="varchar(25)" Null="YES" Key="" Extra="" />
```

```
    <options Name="stud" Engine="InnoDB" Version="10" Row_format="Compact" Rows="3"
```

```

    Avg_row_length="5461" Data_length="16384" Max_data_length="0" Index_length="0"
    Data_free="0" Create_time="2011-02-14 22:01:52" Collation="latin1_swedish_ci"
    Create_options="" Comment="InnoDB free: 4096 kB" />
</table_structure>
<table_data name="stud">
<row>
    <field name="ROLL">2</field>
    <field name="NAME">Anupama</field>
</row>
<row>
    <field name="ROLL">3</field>
    <field name="NAME">Avinash</field>
</row>
<row>
    <field name="ROLL">4</field>
    <field name="NAME">Nazrul</field>
</row>
</table_data>
</database>
</mysqldump>
root@opensolaris:~#

```

DATABASE BACKUP ON SOLARIS MACHINE

```

root@opensolaris:~# /opt/sampstack/mysql/bin/mysqldump --opt -uroot -pnazrul test >
"Desktop/abcd.sql";

```

RESTORE ON SOLARIS MACHINE

```

root@opensolaris:~# /opt/sampstack/mysql/bin/mysql -uroot -pnazrul nazrul <
"Desktop/abcd.sql";

```

NOTE-The database nazrul in above command needs to be created before succesful command execution

DATABASE BACKUP ON WINDOWS MACHINE

```

C:\wamp\bin\mysql\mysql5.5.8\bin\mysqldump -uroot nazrul > C:/abcd.sql

```

RESTORE ON WINDOWS MACHINE

```

C:\wamp\bin\mysql\mysql5.5.8\bin\mysql -uroot nazrul < C:/abcd.sql

```

NOTE-If the database has been dropped then the database has to be created first in order to restore to specific database

DATABASE BACKUP ON LINUX MACHINE

```

[root@localhost ~]# /opt/lampp/bin/mysqldump --opt -uroot test > "Desktop/18102010.sql";

```

DATABASE RESTORE ON LINUX MACHINE

```

[root@localhost ~]# /opt/lampp/bin/mysql < "Desktop/empploy.sql";

```

```

[root@localhost ~]# /opt/lampp/bin/mysql

```

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 7

Server version: 5.1.41 Source distribution

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```

mysql> use test

```

Database changed

```
mysql> CREATE TABLE MARKS(ROL INT PRIMARY KEY,S1 INT,S2 INT,S3 INT,S4 INT,S5 INT,
-> TOTAL INT,PER FLOAT,GRADE VARCHAR(10));
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> INSERT INTO MARKS(ROL) VALUES(0);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> DELIMITER //
```

```
mysql> CREATE TRIGGER MARPERSTA BEFORE INSERT ON MARKS FOR EACH ROW
-> BEGIN
-> DECLARE ROLLNO INT DEFAULT 0;
-> SELECT MAX(ROL) INTO ROLLNO FROM MARKS;
-> SET NEW.ROL=ROLLNO+1;
-> SET NEW.TOTAL=NEW.S1+NEW.S2+NEW.S3+NEW.S4+NEW.S5;
-> SET NEW.PER=NEW.TOTAL/5;
-> IF NEW.PER<33 THEN
-> SET NEW.GRADE="FAIL";
-> ELSEIF
-> NEW.PER>33 AND NEW.PER<45 THEN
-> SET NEW.GRADE="3rdDIV";
-> ELSEIF
-> NEW.PER>45 AND NEW.PER<60 THEN
-> SET NEW.GRADE="2ndDIV";
-> ELSE
-> SET NEW.GRADE="1stDIV";
-> END IF;
-> END//
```

```
Query OK, 0 rows affected (0.16 sec)
```

```
mysql> DELIMITER ;
mysql> INSERT INTO MARKS(S1,S2,S3,S4,S5) VALUES(78,89,91,85,79);
Query OK, 1 row affected, 1 warning (0.02 sec)
```

```
mysql> SELECT * FROM MARKS;
```

ROL	S1	S2	S3	S4	S5	TOTAL	PER	GRADE
0	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
1	78	89	91	85	79	422	84.4	1stDIV

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

```
mysql> INSERT INTO MARKS(S1,S2,S3,S4,S5) VALUES(87,69,51,65,89);
Query OK, 1 row affected, 1 warning (0.00 sec)
```

```
mysql> SELECT * FROM MARKS;
```

ROL	S1	S2	S3	S4	S5	TOTAL	PER	GRADE
0	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
1	78	89	91	85	79	422	84.4	1stDIV
2	87	69	51	65	89	361	72.2	1stDIV

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> DELIMITER //
```

```
mysql> CREATE TRIGGER MARPERSTAUPD BEFORE UPDATE ON MARKS FOR EACH ROW
```

```
-> BEGIN
```

```
-> SET NEW.TOTAL=NEW.S1+NEW.S2+NEW.S3+NEW.S4+NEW.S5;
```

```
-> SET NEW.PER=NEW.TOTAL/5;
```

```
-> IF NEW.PER<33 THEN
```

```
-> SET NEW.GRADE="FAIL";
```

```
-> ELSEIF
```

```
-> NEW.PER>33 AND NEW.PER<45 THEN
```

```
-> SET NEW.GRADE="3rdDIV";
```

```
-> ELSEIF
```

```
-> NEW.PER>45 AND NEW.PER<60 THEN
```

```
-> SET NEW.GRADE="2ndDIV";
```

```
-> ELSE
```

```
-> SET NEW.GRADE="1stDIV";
```

```
-> END IF;
```

```
-> END//
```

Query OK, 0 rows affected (0.18 sec)

```
mysql> DELIMITER ;
```

```
mysql> UPDATE MARKS SET S1=55,S2=55,S3=65 WHERE ROL=1;
```

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE MARKS SET S3=75,S4=75,S5=75 WHERE ROL=2;
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM MARKS;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ROL | S1 | S2 | S3 | S4 | S5 | TOTAL | PER | GRADE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 0 | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 1 | 55 | 55 | 65 | 85 | 79 | 339 | 67.8 | 1stDIV |
| 2 | 87 | 69 | 75 | 75 | 75 | 381 | 76.2 | 1stDIV |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE EMP(ID INT, BASIC_PAY INT);
```

Query OK, 0 rows affected (0.08 sec)

```
mysql> INSERT INTO EMP VALUES(700,5000);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO EMP VALUES(701,4500);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO EMP VALUES(702,5900);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO EMP VALUES(703,9000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM EMP;
```

```
+-----+-----+
| ID    | BASIC_PAY |
+-----+-----+
| 700   | 5000     |
| 701   | 4500     |
| 702   | 5900     |
| 703   | 9000     |
+-----+-----+
```

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

```
mysql> CREATE TABLE TOTALSAL(ID INT,TOTAL_SALARY DOUBLE);
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> DELIMITER //
```

```
mysql> CREATE FUNCTION TOT_SAL_CAL(BP DOUBLE) RETURNS DOUBLE
-> DETERMINISTIC
-> BEGIN
-> DECLARE SAL,TA,DA DOUBLE;
-> SET TA =.08*BP;
-> SET DA =.05*BP;
-> SET SAL=TA+DA+BP;
-> RETURN SAL;
-> END//
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELIMITER ;
```

```
mysql> DELIMITER //
```

```
mysql> CREATE PROCEDURE TOTSAL()
-> BEGIN
-> DECLARE A,ID1,SALARY1 INT DEFAULT 0;
-> DECLARE CUR1 CURSOR FOR SELECT ID ,TOT_SAL_CAL(BASIC_PAY) FROM EMP;
-> DECLARE CONTINUE HANDLER FOR SQLSTATE '02000' SET A=1;
-> OPEN CUR1;
-> REPEAT
-> FETCH CUR1 INTO ID1,SALARY1;
-> IF NOT A THEN
-> INSERT INTO TOTALSAL VALUES(ID1,SALARY1);
-> END IF;
-> UNTIL A=1
-> END REPEAT;
-> CLOSE CUR1;
-> END//
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELIMITER ;
```

```
mysql> SELECT * FROM TOTALSAL;
```

```
Empty set (0.02 sec)
```

```
mysql> CALL TOTSAL();
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM TOTALSAL;
```

```
+-----+-----+
| ID    | TOTAL_SALARY |
+-----+-----+
| 700   | 5650         |
| 701   | 5085         |
| 702   | 6667         |
| 703   | 10170        |
+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE TRAIN(TRAINNO INT, TRAIN_NAME VARCHAR(50));
```

```
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3410, 'BHAGALPUR MALDA TOWN INTERCITY EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3133, 'SEALDAH VARANASI EXPRESS');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(5648, 'DIBRUGARH TOWN LOKMANYATILAK TER EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3072, 'HOWRAH JAMALPUR EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(2367, 'BHAGALPUR NEW DELHI EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3401, 'BHAGALPUR DANAPUR INTERCITY EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3023, 'HOWRAH GAYA EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(2335, 'BHAGALPUR LOKMANYATILAK TER EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(9048, 'BHAGALPUR SURAT EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(4056, 'BRAMHAPUTRA MAIL');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3241, 'BANKA RAJENDRA NAGAR TERMINAL INERTCITY EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3235, 'SAHEBGUNJ DANAPUR INTERCITY');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3414, 'FARAKKA EXPRESS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(3483, 'FARAKKA EXPRESS DOWN');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(815, 'JAMALPUR-AZIMGUNJ');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO TRAIN VALUES(816, 'AZIMGUNJ-JAMALPUR');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM TRAIN ORDER BY TRAINNO ASC;
```

TRAINNO	TRAIN_NAME
815	JAMALPUR-AZIMGUNJ
816	AZIMGUNJ-JAMALPUR
2335	BHAGALPUR LOKMANYATILAK TER EXPRESS
2367	BHAGALPUR NEW DELHI EXPRESS
3023	HOWRAH GAYA EXPRESS
3072	HOWRAH JAMALPUR EXPRESS
3133	SEALDAH VARANASI EXPRESS
3235	SAHEBGUNJ DANAPUR INTERCITY
3241	BANKA RAJENDRA NAGAR TERMINAL INERTCITY EXPRESS
3401	BHAGALPUR DANAPUR INTERCITY EXPRESS
3410	BHAGALPUR MALDA TOWN INTERCITY EXPRESS
3414	FARAKKA EXPRESS
3483	FARAKKA EXPRESS DOWN
4056	BRAMHAPUTRA MAIL
5648	DIBRUGARH TOWN LOKMANYATILAK TER EXPRESS
9048	BHAGALPUR SURAT EXPRESS

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

```
mysql> DELIMITER //
```

```
mysql> CREATE PROCEDURE DELETETRAIN (TRAINID INT)
```

```
-> BEGIN
```

```
-> DELETE FROM TRAIN WHERE TRAINNO=TRAINID;
```

```
-> END//
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> DELIMITER ;
```

```
mysql> CALL DELETETRAIN(3414);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> CALL DELETETRAIN(3483);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> CALL DELETETRAIN(816);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM TRAIN ORDER BY TRAINNO ASC;
```

TRAINNO	TRAIN_NAME
815	JAMALPUR-AZIMGUNJ
2335	BHAGALPUR LOKMANYATILAK TER EXPRESS
2367	BHAGALPUR NEW DELHI EXPRESS
3023	HOWRAH GAYA EXPRESS
3072	HOWRAH JAMALPUR EXPRESS
3133	SEALDAH VARANASI EXPRESS
3235	SAHEBGUNJ DANAPUR INTERCITY
3241	BANKA RAJENDRA NAGAR TERMINAL INERTCITY EXPRESS
3401	BHAGALPUR DANAPUR INTERCITY EXPRESS
3410	BHAGALPUR MALDA TOWN INTERCITY EXPRESS
4056	BRAMHAPUTRA MAIL
5648	DIBRUGARH TOWN LOKMANYATILAK TER EXPRESS
9048	BHAGALPUR SURAT EXPRESS

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

```
mysql> DELIMITER //
```

```
mysql> CREATE PROCEDURE DISPLAYTRAIN(OUT MN INT,OUT MX INT)
```

```
-> BEGIN
```

```
-> SELECT MAX(TRAINNO) INTO MN FROM TRAIN;
```

```
-> SELECT MIN(TRAINNO) INTO MX FROM TRAIN;
```

```
-> END//
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELIMITER ;
```

```
mysql> CALL DISPLAYTRAIN(@1,@2);
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> SELECT @1,@2;
```

@1	@2
9048	815

```
1 row in set (0.00 sec)
```

```
mysql> DELIMITER //
```

```
mysql> CREATE PROCEDURE SQRROOT(INOUT NUM FLOAT)
```

```
-> SET NUM=SQRT(NUM)//
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DELIMITER ;
```

```
mysql> SET @N=8.7;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> CALL SQRROOT(@N);
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT @N;
+-----+
| @N    |
+-----+
| 2.94957613945007 |
+-----+
1 row in set (0.00 sec)

-----
mysql> CREATE TABLE EMPLOYEE(ID INT,NAME VARCHAR(30),AGE INT,MOBILE BIGINT);
Query OK, 0 rows affected (0.08 sec)

mysql> CREATE TABLE EMPLOYEE_LOG(ID INT,NAME VARCHAR(30),AGE INT,MOBILE BIGINT,DTM
TIMESTAMP);
Query OK, 0 rows affected (0.08 sec)

mysql> DELIMITER //
mysql> CREATE TRIGGER AFTEREMPLOYEEINSERT AFTER INSERT ON EMPLOYEE FOR EACH ROW
-> BEGIN
-> INSERT INTO EMPLOYEE_LOG VALUES(NEW.ID,NEW.NAME,NEW.AGE,NEW.MOBILE);
-> END//
Query OK, 0 rows affected (0.14 sec)

mysql> DELIMITER ;
mysql> CREATE TABLE EMPLOYEE_DEL(ID INT,NAME VARCHAR(30),AGE INT,MOBILE BIGINT);
Query OK, 0 rows affected (0.08 sec)

mysql> DELIMITER //
mysql> CREATE TRIGGER AFTEREMPLOYEEDELETE AFTER DELETE ON EMPLOYEE FOR EACH ROW
-> BEGIN
-> INSERT INTO EMPLOYEE_DEL VALUES(OLD.ID,OLD.NAME,OLD.AGE,OLD.MOBILE);
-> END//
Query OK, 0 rows affected (0.15 sec)

mysql> DELIMITER ;
mysql> CREATE TABLE EMPLOYEE_UPDATED_BY_AT(USERID VARCHAR(15),DESCR VARCHAR(100),DTM
TIMESTAMP);
Query OK, 0 rows affected (0.07 sec)

mysql> DELIMITER ;
mysql> DELIMITER //
mysql> CREATE TRIGGER EMPLOYEEUPDTAT AFTER UPDATE ON EMPLOYEE FOR EACH ROW
-> BEGIN
-> INSERT INTO EMPLOYEE_UPDATED_BY_AT(USERID,DESCR) VALUES(user(),CONCAT(OLD.ID,OLD.
NAME,OLD.AGE,OLD.MOBILE));
-> END//
Query OK, 0 rows affected (0.18 sec)

mysql> DELIMITER ;
```

```
mysql> SELECT * FROM EMPLOYEE;
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_LOG;
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_DEL;
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_UPDATED_BY_AT;
Empty set (0.00 sec)
```

```
mysql> INSERT INTO EMPLOYEE VALUES(1, 'NAZRUL', 24, 9852502084);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO EMPLOYEE VALUES(2, 'RAKESH', 31, 9771254390);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE;
+----+-----+-----+-----+
| ID  | NAME  | AGE  | MOBILE  |
+----+-----+-----+-----+
| 2   | RAKESH | 31   | 9771254390 |
| 1   | NAZRUL | 24   | 9852502084 |
+----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_LOG;
+----+-----+-----+-----+
| ID  | NAME  | AGE  | MOBILE  |
+----+-----+-----+-----+
| 1   | NAZRUL | 24   | 9852502084 |
| 2   | RAKESH | 31   | 9771254390 |
+----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> DELETE FROM EMPLOYEE WHERE ID=1;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE;
+----+-----+-----+-----+
| ID  | NAME  | AGE  | MOBILE  |
+----+-----+-----+-----+
| 2   | RAKESH | 31   | 9771254390 |
+----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_LOG;
+----+-----+-----+-----+
| ID  | NAME  | AGE  | MOBILE  |
+----+-----+-----+-----+
```

```
| 1 | NAZRUL | 24 | 9852502084 |
| 2 | RAKESH | 31 | 9771254390 |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_DEL;
```

```
+-----+
| ID | NAME | AGE | MOBILE |
+-----+
| 1 | NAZRUL | 24 | 9852502084 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> UPDATE EMPLOYEE SET NAME='SYED NAZRUL HASSAN', AGE=24, MOBILE=952502084 WHERE ID=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> SELECT * FROM EMPLOYEE;
```

```
+-----+
| ID | NAME | AGE | MOBILE |
+-----+
| 2 | SYED NAZRUL HASSAN | 24 | 952502084 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_LOG;
```

```
+-----+
| ID | NAME | AGE | MOBILE |
+-----+
| 1 | NAZRUL | 24 | 9852502084 |
| 2 | RAKESH | 31 | 9771254390 |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_DEL;
```

```
+-----+
| ID | NAME | AGE | MOBILE |
+-----+
| 1 | NAZRUL | 24 | 9852502084 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE_UPDATED_BY_AT;
```

```
+-----+
| USERID | DESCR | DTM |
+-----+
| root@localhost | 2RAKESH319771254390 | 2010-10-19 00:06:11 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> CREATE TABLE STUD(NAME VARCHAR(25), AGE INT);
```

```
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> CREATE TABLE ERROR(ERRORGID INT(10) UNSIGNED NOT NULL AUTO_INCREMENT, MESSAGE
VARCHAR(200) DEFAULT NULL, CREATED TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP, PRIMARY KEY(ERRORGID), UNIQUE KEY MESSAGEINDEX(MESSAGE));
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> DELIMITER //
mysql> CREATE PROCEDURE FAIL(_MESSAGE VARCHAR(200))
-> BEGIN
-> INSERT INTO ERROR(MESSAGE) VALUES(_MESSAGE);
-> INSERT INTO ERROR(MESSAGE) VALUES(_MESSAGE);
-> END//
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELIMITER ;
mysql> DELIMITER //
mysql> CREATE TRIGGER AGECHK BEFORE INSERT ON STUD FOR EACH ROW
-> BEGIN
-> IF NEW.AGE < 20 OR NEW.AGE > 60 THEN
-> CALL FAIL('Age is not allowed in your RANGE');
-> END IF;
-> END//
Query OK, 0 rows affected (0.14 sec)
```

```
mysql> DELIMITER ;
mysql> INSERT INTO STUD VALUES('CHANDAN',28);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO STUD VALUES('ANUPAMA',25);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO STUD VALUES('BABU',5);
ERROR 1062 (23000): Duplicate entry 'Age is not allowed in your RANGE' for key
'MESSAGEINDEX'
```

```
mysql> INSERT INTO STUD VALUES('UNCLE',65);
ERROR 1062 (23000): Duplicate entry 'Age is not allowed in your RANGE' for key
'MESSAGEINDEX'
```

```
mysql> INSERT INTO STUD VALUES('NAZRUL',24);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM STUD;
```

```
+-----+-----+
| NAME   | AGE   |
+-----+-----+
| CHANDAN | 28    |
| ANUPAMA | 25    |
| NAZRUL  | 24    |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM ERROR;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

ERRORID	MESSAGE	CREATED
1	Age is not allowed in your RANGE	2010-10-19 01:12:32

1 row in set (0.00 sec)

```
mysql> DELIMITER //
```

```
mysql> CREATE PROCEDURE CASE_EXAMPLE(IN CS INT)
```

```
-> BEGIN
```

```
-> DECLARE CASES INT;
```

```
-> SET CASES = CS;
```

```
-> SELECT '1-MIN, 2-MAX, 3-AVG, 4-STD, 5-STDDEV, 6-SUM, 7-COUNT, 8-VARIANCE';
```

```
-> CASE CASES
```

```
-> WHEN 1 THEN SELECT MIN(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> WHEN 2 THEN SELECT MAX(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> WHEN 3 THEN SELECT AVG(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> WHEN 4 THEN SELECT STD(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> WHEN 5 THEN SELECT STDDEV(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> WHEN 6 THEN SELECT SUM(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> WHEN 7 THEN SELECT COUNT(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> WHEN 8 THEN SELECT VARIANCE(TOTAL_SALARY) FROM TOTALSAL;
```

```
-> ELSE SELECT 'RANGE FROM 1 TO 8';
```

```
-> END CASE;
```

```
-> END//
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> DELIMITER ;
```

```
mysql> CALL CASE_EXAMPLE(3);
```

1-MIN, 2-MAX, 3-AVG, 4-STD, 5-STDDEV, 6-SUM, 7-COUNT, 8-VARIANCE
1-MIN, 2-MAX, 3-AVG, 4-STD, 5-STDDEV, 6-SUM, 7-COUNT, 8-VARIANCE

1 row in set (0.00 sec)

AVG(TOTAL_SALARY)
6893

1 row in set (0.02 sec)

```
mysql> CALL CASE_EXAMPLE(4);
```

1-MIN, 2-MAX, 3-AVG, 4-STD, 5-STDDEV, 6-SUM, 7-COUNT, 8-VARIANCE
1-MIN, 2-MAX, 3-AVG, 4-STD, 5-STDDEV, 6-SUM, 7-COUNT, 8-VARIANCE

1 row in set (0.00 sec)

STD(TOTAL_SALARY)

```
+-----+
| 1975.07708710318 |
+-----+
1 row in set (0.01 sec)
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> CALL CASE_EXAMPLE(9);
```

```
+-----+
| 1-MIN,2-MAX,3-AVG,4-STD,5-STDDEV,6-SUM,7-COUNT,8-VARIANCE |
+-----+
| 1-MIN,2-MAX,3-AVG,4-STD,5-STDDEV,6-SUM,7-COUNT,8-VARIANCE |
+-----+
1 row in set (0.00 sec)
```

```
+-----+
| RANGE FROM 1 TO 8 |
+-----+
| RANGE FROM 1 TO 8 |
+-----+
1 row in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> CREATE TABLE STUD_LOG(NAME VARCHAR(25),AGE INT);
```

Query OK, 0 rows affected (0.11 sec)

```
mysql> DELIMITER //
```

```
mysql> CREATE TRIGGER STUDLOGCREATE AFTER INSERT ON STUD FOR EACH ROW
```

```
-> BEGIN
-> DECLARE A,AGE1 INT DEFAULT 0 ;
-> DECLARE NAME1 VARCHAR(25);
-> DECLARE CUR1 CURSOR FOR SELECT * FROM STUD;
-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET A=1;
-> OPEN CUR1;
-> REPEAT
-> FETCH CUR1 INTO NAME1,AGE1;
-> IF NOT A THEN
-> INSERT INTO STUD_LOG VALUES(NAME1,AGE1);
-> END IF;
-> UNTIL A=1
-> END REPEAT;
-> CLOSE CUR1;
-> END//
```

Query OK, 0 rows affected (0.15 sec)

```
mysql> DELIMITER ;
```

```
mysql> SELECT * FROM STUD;
```

```
+-----+-----+
| NAME    | AGE  |
+-----+-----+
| CHANDAN | 28   |
```

ANUPAMA	25
NAZRUL	24

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

```
mysql> SELECT * FROM STUD_LOG;  
Empty set (0.00 sec)
```

```
mysql> INSERT INTO STUD VALUES('NAYEEM',27);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM STUD;
```

+-----+-----+	
NAME	AGE
+-----+-----+	
CHANDAN	28
ANUPAMA	25
NAYEEM	27
NAZRUL	24
+-----+-----+	

4 rows in set (0.00 sec)

```
mysql> SELECT * FROM STUD_LOG;
```

+-----+-----+	
NAME	AGE
+-----+-----+	
CHANDAN	28
ANUPAMA	25
NAYEEM	27
NAZRUL	24
+-----+-----+	

4 rows in set (0.01 sec)

```
mysql> INSERT INTO STUD VALUES('ADITYA',25);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM STUD;
```

+-----+-----+	
NAME	AGE
+-----+-----+	
CHANDAN	28
ANUPAMA	25
NAYEEM	27
NAZRUL	24
ADITYA	25
+-----+-----+	

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM STUD_LOG;
```

+-----+-----+	
NAME	AGE
+-----+-----+	

CHANDAN	28
ANUPAMA	25
NAYEEM	27
NAZRUL	24
CHANDAN	28
ANUPAMA	25
NAYEEM	27
NAZRUL	24
ADITYA	25

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

9 rows in set (0.00 sec)

mysql> DELIMITER //

mysql> CREATE PROCEDURE PRP_STMT()

-> BEGIN

-> SET @SQL='SELECT

MIN(TOTAL_SALARY), MAX(TOTAL_SALARY), AVG(TOTAL_SALARY), STD(TOTAL_SALARY), STDDEV(TOTAL_SALARY), SUM(TOTAL_SALARY), COUNT(TOTAL_SALARY), VARIANCE(TOTAL_SALARY) FROM TOTALSAL';

-> PREPARE STMT FROM @SQL;

-> EXECUTE STMT;

-> END//

Query OK, 0 rows affected (0.05 sec)

mysql> DELIMITER ;

mysql> CALL PRP_STMT();

+

MIN(TOTAL_SALARY)	MAX(TOTAL_SALARY)	AVG(TOTAL_SALARY)	STD(TOTAL_SALARY)	STDDEV(TOTAL_SALARY)	SUM(TOTAL_SALARY)	COUNT(TOTAL_SALARY)	VARIANCE(TOTAL_SALARY)
1975.07708710318	5085	27572	6893	1975.07708710318	4	3900929.5	

+

1975.07708710318	5085	27572	6893	1975.07708710318	4	3900929.5
------------------	------	-------	------	------------------	---	-----------

+

1975.07708710318	5085	27572	6893	1975.07708710318	4	3900929.5
------------------	------	-------	------	------------------	---	-----------

1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM MARKS;

ROL	S1	S2	S3	S4	S5	TOTAL	PER	GRADE
0	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
1	55	65	75	85	79	359	71.8	1stDIV
2	87	69	75	75	75	381	76.2	1stDIV

3 rows in set (0.03 sec)

```
mysql> CREATE VIEW TOTAL AS SELECT TOTAL FROM MARKS;
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE VIEW PERCENTAGE AS SELECT ROL,TOTAL FROM MARKS;
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> DROP VIEW TOTAL;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> CREATE VIEW TOTAL AS SELECT ROL,TOTAL FROM MARKS;
```

```
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> SELECT * FROM TOTAL;
```

```
+-----+-----+
| ROL | TOTAL |
+-----+-----+
| 0 | NULL |
| 1 | 359 |
| 2 | 381 |
+-----+-----+
```

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

```
mysql> SELECT * FROM PERCENTAGE;
```

```
+-----+-----+
| ROL | TOTAL |
+-----+-----+
| 0 | NULL |
| 1 | 359 |
| 2 | 381 |
+-----+-----+
```

```
3 rows in set (0.01 sec)
```

```
mysql> DROP VIEW PERCENTAGE,TOTAL;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> SELECT * FROM MARKS;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ROL | S1 | S2 | S3 | S4 | S5 | TOTAL | PER | GRADE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 0 | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 1 | 55 | 65 | 75 | 85 | 79 | 359 | 71.8 | 1stDIV |
| 2 | 87 | 69 | 75 | 75 | 75 | 381 | 76.2 | 1stDIV |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

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

```
mysql> CREATE VIEW TOTAL AS SELECT ROL,TOTAL FROM MARKS;
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE VIEW PERCENTAGE AS SELECT ROL,PER FROM MARKS;
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE VIEW IMARKS AS SELECT ROL,S1,S2,S3,S4,S5 FROM MARKS;
```

Query OK, 0 rows affected (0.10 sec)

mysql> SELECT * FROM TOTAL;

ROL	TOTAL
0	NULL
1	359
2	381

3 rows in set (0.00 sec)

mysql> SELECT * FROM PERCENTAGE;

ROL	PER
0	NULL
1	71.8
2	76.2

3 rows in set (0.00 sec)

mysql> SELECT * FROM IMARKS;

ROL	S1	S2	S3	S4	S5
0	NULL	NULL	NULL	NULL	NULL
1	55	65	75	85	79
2	87	69	75	75	75

3 rows in set (0.00 sec)

mysql> SET GLOBAL event_scheduler = "ON";

Query OK, 0 rows affected (0.00 sec)

mysql> CREATE TABLE log (
-> eventtime DATETIME
->);

Query OK, 0 rows affected (0.06 sec)

mysql> select NOW();

NOW()
2006-12-13 22:47:12

1 row in set (0.00 sec)

mysql> CREATE EVENT testevent

-> ON SCHEDULE EVERY 1 MINUTE
-> STARTS '2006-12-13 22:48:00'
-> DO

```
-> INSERT INTO `log` VALUES (NOW());
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> SHOW EVENTS\G;
```

***** 1. row *****

Db: blog

Name: testevent

Definer: root@localhost

Type: RECURRING

Execute at: NULL

Interval value: 1

Interval field: MINUTE

Starts: 2006-12-13 22:48:00

Ends: NULL

Status: ENABLED

1 row in set (0.00 sec)

```
mysql> SELECT * FROM log;
```

+-----+

| eventtime |

+-----+

| 2006-12-13 22:50:00 |

+-----+

1 row in set (0.00 sec)

```
mysql> SELECT * FROM log;
```

+-----+

| eventtime |

+-----+

| 2006-12-13 22:50:00 |

| 2006-12-13 22:51:00 |

| 2006-12-13 22:52:00 |

+-----+

3 rows in set (0.00 sec)