```
gurukul@ubuntu:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 36
Server version: 5.5.37-0ubuntu0.12.10.1 (Ubuntu)
```

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

```
mysql> show databases;
| Database |
+----+
| information schema |
| mysql |
| performance_schema |
+----+
3 rows in set (0.01 sec)
mysql> create database college;
Query OK, 1 row affected (0.00 sec)
mysql> show databases;
+----+
| Database |
+----+
| information_schema |
| college |
| mysql |
| performance_schema |
4 rows in set (0.00 sec)
```

mysql> use college;

Database changed

mysql> drop database college;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'databse college' at line 1

mysql> drop database college;

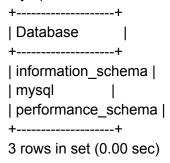
Query OK, 0 rows affected (0.00 sec)

mysql> show databases

-> show databases;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'show databases' at line 2

mysql> show databases;



mysql>

```
//Create database:-
mysql> create database college;
Query OK, 1 row affected (0.00 sec)
mysql> use college;
Database changed
mysql> create table stud(Rno int(4),Name varchar(20));
Query OK, 0 rows affected (0.01 sec)
//Describe table:-
mysql> desc stud;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| Rno | int(4) | YES | | NULL | |
| Name | varchar(20) | YES | NULL |
+----+
2 rows in set (0.00 sec)
//add column:-
mysql> alter table stud add address varchar(30);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc stud;
+----+
| Field | Type | Null | Key | Default | Extra | +----+
| Rno | int(4) | YES | | NULL | |
| Name | varchar(20) | YES | | NULL |
| address | varchar(30) | YES | NULL |
+-----+
3 rows in set (0.00 sec)
mysql> show tables;
+----+
| Tables_in_college |
+----+
| stud |
+----+
1 row in set (0.00 sec)
//modify column:-
mysql> alter table stud modify address varchar(40);
```

Query OK, 0 rows affected (0.01 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> desc stud; +-----+ | Field | Type | Null | Key | Default | Extra | +----+ | Rno | int(4) | YES | | NULL | | | Name | varchar(20) | YES | NULL | | address | varchar(40) | YES | NULL | +----+ 3 rows in set (0.01 sec) mysql> alter table stud modify Name char(20); Query OK, 0 rows affected (0.00 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> desc stud; +----+ | Field | Type | Null | Key | Default | Extra | +----+ | Rno | int(4) | YES | | NULL | | | Name | char(20) | YES | | NULL | | | address | varchar(40) | YES | NULL | +----+ 3 rows in set (0.01 sec) //drop column:mysql> alter table stud drop column address; Query OK, 0 rows affected (0.00 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> desc stud; +-----+ | Field | Type | Null | Key | Default | Extra | +----+ | Rno | int(4) | YES | | NULL | | | Name | char(20) | YES | | NULL | +----+ 2 rows in set (0.00 sec) mysql> alter table stud add DOB date; Query OK, 0 rows affected (0.00 sec) Records: 0 Duplicates: 0 Warnings: 0

mysql> desc stud;

+----+

```
| Field | Type | Null | Key | Default | Extra |
+----+
| Rno | int(4) | YES | | NULL | |
| Name | char(20) | YES | | NULL | |
|DOB |date |YES | |NULL | |
+----+
3 rows in set (0.00 sec)
//truncate table:-
mysql> truncate table stud;
Query OK, 0 rows affected (0.00 sec)
//rename table:-
mysql> rename table stud to student;
Query OK, 0 rows affected (0.00 sec)
mysql> show tables;
| Tables_in_college |
+----+
| student
+----+
1 row in set (0.00 sec)
DATE:- 21/06/17
gurukul@ubuntu:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 36
Server version: 5.5.37-0ubuntu0.12.10.1 (Ubuntu)
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affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+----+
| Database |
+----+
| information_schema |
| college |
| mysql
             -
```

```
| performance_schema |
+----+
4 rows in set (0.02 sec)
mysql> use college;
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 college |
+----+
| student
+----+
1 row in set (0.00 sec)
// Unique:-
mysql> create table stud1(rno int (3)unique,age int(4));
Query OK, 0 rows affected (0.00 sec)
mysql> desc stud1;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
|rno |int(3)|YES |UNI|NULL | |
| age | int(4) | YES | | NULL | |
+----+
2 rows in set (0.00 sec)
// Not null:-
mysql> create table stud2(rno int(3)unique,name varchar(20)not null);
Query OK, 0 rows affected (0.01 sec)
mysql> desc stud2;
+----+
rno | int(3) | YES | UNI | NULL | |
| name | varchar(20) | NO | NULL | |
+-----+
2 rows in set (0.00 sec)
// Primary key:-
mysql> create table stud3(rno int(3) primary key,name varchar(20));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> desc stud3;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
|rno |int(3) |NO |PRI|NULL |
| name | varchar(20) | YES | | NULL |
                                +-----+
2 rows in set (0.00 sec)
//default:-
mysql> create table stud4(rno int(3) primary key,addr varchar(20) default 'chandwad');
Query OK, 0 rows affected (0.00 sec)
mysql> desc stud4;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| rno | int(3) | NO | PRI | NULL | |
| addr | varchar(20) | YES | | chandwad |
+-----+
2 rows in set (0.00 sec)
// Check:-
mysql> create table stud5(rno int(3),age int(4) check(age>18));
Query OK, 0 rows affected (0.01 sec)
mysal> desc stud5;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| rno | int(3) | YES | | NULL | |
| age | int(4) | YES | | NULL | |
+----+
2 rows in set (0.00 sec)
// Forign key:-
mysql> create table emp(eno int(3)primary key,ename varchar(20));
Query OK, 0 rows affected (0.00 sec)
mysql> create table emp_prj(enumber int(3) references emp(eno),prname varchar(20));
Query OK, 0 rows affected (0.00 sec)
mysql> desc emp;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
```

| eno | int(3) | NO | PRI | NULL | |

```
ename | varchar(20) | YES | NULL |
+-----+
2 rows in set (0.00 sec)
mysql> desc emp prj;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| enumber | int(3) | YES | NULL | |
| prname | varchar(20) | YES | | NULL |
+----+
2 rows in set (0.00 sec)
// How to add constraint after creation of table:-
mysql> create table cust(cid int(4),cname varchar(10));
Query OK, 0 rows affected (0.01 sec)
mysql> desc cust;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| cid | int(4) | YES | | NULL | |
| cname | varchar(10) | YES | NULL |
+----+
2 rows in set (0.00 sec)
mysgl> alter table cust add constraint pk1 primary key(cid);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
//drop constraint:-
mysql> alter table cust drop primary key;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc cust;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| cid | int(4) | NO | | 0 | |
cname | varchar(10) | YES | NULL |
+----+
2 rows in set (0.00 sec)
// add constraint at a time of table creation:-
mysql> create table cust1(cid int(4),cname varchar(20),addr varchar(30),primary
key(cid,cname));
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> desc cust1;
+----+
| Field | Type
           | Null | Key | Default | Extra |
+-----+
| cid | int(4) | NO | PRI | 0 |
| cname | varchar(20) | NO | PRI |
| addr | varchar(30) | YES | | NULL | |
+----+
3 rows in set (0.00 sec)
// Index:-
// create index:-
mysql> create index ind1 on cust(cname);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
// Show index:-
mysql> show index from cust;
+----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality |
Sub_part | Packed | Null | Index_type | Comment | Index_comment |
+----+
        1 | ind1 | 1 | cname | A | 0 | NULL | NULL | YES |
| cust |
BTREE
1 row in set (0.01 sec)
// drop index:-
mysql> alter table cust drop index ind1;
Query OK, 0 rows affected (0.00 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> show index from cust;
Empty set (0.01 sec)
// View:
//Create view:-
mysql> create view v1 as select rno from stud1;
Query OK, 0 rows affected (0.00 sec)
mysql> desc v1;
+----+
| Field | Type | Null | Key | Default | Extra |
```

```
+----+
| rno | int(3) | YES | | NULL | |
+----+
1 row in set (0.00 sec)
//display view:-
mysql> select * from v1;
Empty set (0.00 sec)
//drop view:-
mysql> drop view v1;
Query OK, 0 rows affected (0.00 sec)
//Sequence:-
mysql> create table bills(bill_no int(4)primary key auto_increment,amt int(5));
Query OK, 0 rows affected (0.00 sec)
mysql> alter table bills auto_increment=101;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc bills;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| bill_no | int(4) | NO | PRI | NULL | auto_increment |
| amt | int(5) | YES | | NULL | |
+-----+
2 rows in set (0.00 sec)
```

```
DATE:-27/06/17
gurukul@ubuntu:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 36
Server version: 5.5.37-0ubuntu0.12.10.1 (Ubuntu)
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owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases:
+----+
| Database |
+----+
| information_schema |
| college |
           | mysql
| performance_schema |
+----+
4 rows in set (0.02 sec)
mysql> use college;
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> create table stud(rno int(3),name varchar(20));
Query OK, 0 rows affected (0.01 sec)
mysql> desc stud;
+----+
| rno | int(3) | YES | | NULL | |
| name | varchar(20) | YES | | NULL |
```

+----+

mysql> insert into stud values(1,'Jayu');

2 rows in set (0.00 sec)

//DML COMMANDS:

//INSERT:-

```
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud(rno) values(2);
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud(name) values('Komu');
Query OK, 1 row affected (0.00 sec)
//SELECT:-
mysql> select * from stud;
+----+
|rno |name|
+----+
| 1 | Jayu |
| 2 | NULL |
| NULL | Komu |
+----+
3 rows in set (0.00 sec)
//INSERT multiple records:-
mysql> insert into stud values(4,'Snehal'),(5,'Prachi'),(6,'Reena');
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> select * from stud;
+----+
|rno |name |
+----+
| 1|Jayu |
| 2 | NULL |
| NULL | Komu |
| 4 | Snehal |
| 5 | Prachi |
| 6 | Reena |
+----+
6 rows in set (0.00 sec)
//DELETE:-
mysgl> delete from stud where rno=1;
Query OK, 1 row affected (0.00 sec)
mysql> select * from stud;
+----+
|rno |name |
+----+
| 2 | NULL |
| NULL | Komu |
| 4 | Snehal |
```

```
| 5 | Prachi |
| 6 | Reena |
+----+
5 rows in set (0.00 sec)
mysgl> delete from stud where name='komu';
Query OK, 1 row affected (0.00 sec)
mysql> select * from stud;
+----+
|rno |name |
+----+
| 2 | NULL |
| 4 | Snehal |
| 5 | Prachi |
| 6 | Reena |
+----+
4 rows in set (0.00 sec)
//UPDATE:-
mysql> update stud set name='Jayu' where rno=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud;
+----+
|rno |name |
+----+
| 2 | Jayu |
| 4 | Snehal |
 5 | Prachi |
| 6 | Reena |
+----+
4 rows in set (0.00 sec)
mysql> update stud set rno=3 where name='Snehal';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud;
+----+
|rno |name |
+----+
| 2 | Jayu |
| 3 | Snehal |
| 5 | Prachi |
| 6 | Reena |
+----+
```

```
4 rows in set (0.00 sec)
mysql> update stud set rno=4 where rno=5;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud;
+----+
|rno |name |
+----+
| 2 | Jayu |
| 3 | Snehal |
| 4 | Prachi |
| 6 | Reena |
+----+
4 rows in set (0.00 sec)
//UPDATE more than 1 condition:-
mysql> update stud set rno=5,name='Komu' where rno=6;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud;
+----+
|rno |name |
+----+
| 2|Jayu |
| 3 | Snehal |
| 4 | Prachi |
| 5 | Komu |
+----+
4 rows in set (0.00 sec)
//SELECT:-
mysql> select * from stud where rno=3;
+----+
|rno |name |
+----+
| 3 | Snehal |
+----+
1 row in set (0.00 sec)
mysql> select name from stud where rno=3;
+----+
|name |
+----+
| Snehal |
```

+----+

```
1 row in set (0.00 sec)
mysql> select name from stud where rno>3;
+----+
|name |
+----+
| Prachi |
|Komu |
+----+
2 rows in set (0.00 sec)
mysgl> select name from stud where rno!=3;
|name |
+----+
| Jayu |
| Prachi |
|Komu |
+----+
3 rows in set (0.00 sec)
mysql> select * from stud where rno!=3;
+----+
|rno |name |
+----+
| 2 | Jayu |
| 4 | Prachi |
| 5 | Komu |
+----+
3 rows in set (0.00 sec)
mysql> alter table stud add city varchar(30);
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> desc stud;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| rno | int(3) | YES | | NULL | |
| name | varchar(20) | YES | NULL |
city | varchar(30) | YES | NULL |
+----+
3 rows in set (0.00 sec)
mysql> select * from stud;
+----+
```

|rno |name |city|

```
+----+
| 2|Jayu |NULL|
| 3 | Snehal | NULL |
| 4 | Prachi | NULL |
| 5 | Komu | NULL |
+----+
4 rows in set (0.00 sec)
mysql> update stud set city='Nashik' where rno=2 or rno=4;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> select * from stud;
+----+
|rno | name | city |
+----+
| 2 | Jayu | Nashik |
| 3 | Snehal | NULL |
| 4 | Prachi | Nashik |
| 5 | Komu | NULL |
+----+
4 rows in set (0.00 sec)
mysql> update stud set city='Pune' where rno in(3,5);
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> select * from stud;
+----+
|rno | name | city |
+----+
| 2 | Jayu | Nashik |
| 3 | Snehal | Pune |
4 | Prachi | Nashik |
| 5 | Komu | Pune |
+----+
4 rows in set (0.00 sec)
//ORDER BY:-
mysql> select * from stud order by rno;
+----+
|rno | name | city |
+----+
| 2 | Jayu | Nashik |
| 3 | Snehal | Pune |
| 4 | Prachi | Nashik |
| 5 | Komu | Pune |
```

```
+----+
4 rows in set (0.00 sec)
mysql> select * from stud order by rno desc;
+----+
|rno |name |city |
+----+
| 5 | Komu | Pune |
| 4 | Prachi | Nashik |
| 3 | Snehal | Pune |
| 2 | Jayu | Nashik |
+----+
4 rows in set (0.00 sec)
mysql> select * from stud order by name;
+----+
|rno |name |city |
+----+
| 2 | Jayu | Nashik |
| 5 | Komu | Pune |
| 4 | Prachi | Nashik |
| 3 | Snehal | Pune |
+----+
4 rows in set (0.00 sec)
mysql> select * from stud order by name desc;
+----+
|rno |name |city |
+----+
| 3 | Snehal | Pune |
| 4 | Prachi | Nashik |
| 5 | Komu | Pune |
| 2 | Jayu | Nashik |
+----+
4 rows in set (0.00 sec)
mysql> select * from stud order by city,rno;
+----+
|rno |name |city |
+----+
| 2 | Jayu | Nashik |
| 4 | Prachi | Nashik |
| 3 | Snehal | Pune |
| 5 | Komu | Pune |
+----+
4 rows in set (0.00 sec)
```

mysql> select * from stud order by city,name;

```
+----+
|rno |name |city |
+----+
 2 | Jayu | Nashik |
 4 | Prachi | Nashik |
 5 | Komu | Pune |
| 3 | Snehal | Pune |
+----+
4 rows in set (0.00 sec)
//LIKE:-
mysql> select * from stud where name like 'J%';
+----+
| rno | name | city |
+----+
| 2 | Jayu | Nashik |
+----+
1 row in set (0.00 sec)
mysql> select * from stud where name like 'K____';
+----+
| rno | name | city |
+----+
| 5 | Komu | Pune |
+----+
1 row in set (0.00 sec)
mysql> select * from stud where name like '%a%';
+----+
|rno |name |city |
+----+
| 2 | Jayu | Nashik |
 3 | Snehal | Pune |
| 4 | Prachi | Nashik |
+----+
3 rows in set (0.00 sec)
mysgl> select * from stud where name like '%i';
+----+
|rno |name |city |
+----+
| 4 | Prachi | Nashik |
+----+
1 row in set (0.00 sec)
//DISTINCT:-
mysql> select distinct(city) from stud;
```

```
city |
+----+
| Nashik |
|Pune |
+----+
2 rows in set (0.00 sec)
//
mysql> alter table stud add marks int(3);
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> desc stud;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| rno | int(3) | YES | | NULL | |
| name | varchar(20) | YES | NULL |
city | varchar(30) | YES | NULL | |
| marks | int(3) | YES | | NULL |
+----+
4 rows in set (0.00 sec)
mysql> select * from stud;
+----+
|rno | name | city | marks |
+----+
| 2 | Jayu | Nashik | NULL |
| 3 | Snehal | Pune | NULL |
| 4 | Prachi | Nashik | NULL |
| 5 | Komu | Pune | NULL |
+----+
4 rows in set (0.00 sec)
mysql> update stud set marks=80 where rno=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> update stud set marks=60 where rno=3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud;
+----+
|rno |name |city |marks|
+----+
| 2 | Jayu | Nashik | 80 |
```

```
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | NULL |
| 5 | Komu | Pune | NULL |
+----+
4 rows in set (0.00 sec)
//NULL Operator:-
mysql> select * from stud where marks is not null;
+----+
|rno |name |city |marks|
+----+
| 2 | Jayu | Nashik | 80 |
| 3 | Snehal | Pune | 60 |
+----+
2 rows in set (0.00 sec)
//Agreegate (COUNT):-
mysql> select count(*) from stud;
+----+
| count(*) |
+----+
| 4|
+----+
1 row in set (0.00 sec)
mysql> select count(marks) from stud;
+----+
| count(marks) |
+----+
   2 |
+----+
1 row in set (0.00 sec)
mysql> select count(*) from stud where city='Nashik';
+----+
| count(*) |
+----+
   2 |
+----+
1 row in set (0.00 sec)
mysql> select count(marks) from stud where city='Nashik';
+----+
| count(marks) |
+----+
| 1|
+----+
1 row in set (0.00 sec)
```

```
mysql> select avg(marks) from stud;
+----+
| avg(marks) |
+----+
70.0000 |
+----+
1 row in set (0.00 sec)
mysql> select max(name) from stud;
+----+
| max(name) |
+----+
| Snehal |
+----+
1 row in set (0.00 sec)
mysql> select min(name) from stud;
+----+
| min(name) |
+----+
|Jayu |
+----+
1 row in set (0.00 sec)
mysql> select sum(name) from stud;
+----+
| sum(name) |
+----+
  0 |
+----+
1 row in set, 4 warnings (0.00 sec)
//GROUP BY & HAVING:-
mysql> select city,max(marks) from stud group by city;
+----+
| city | max(marks) |
+----+
| Nashik |
            80 |
|Pune |
          70 |
+----+
2 rows in set (0.00 sec)
mysql> select city,max(marks) from stud group by city having max(marks)>70;
+----+
| city | max(marks) |
+----+
```

//AVERAGE:-

```
| Nashik | 80 |
+----+
1 row in set (0.00 sec)
mysql> select city,avg(marks) from stud group by city having max(marks)>70;
+----+
| city | avg(marks) |
+----+
| Nashik | 65.0000 |
+----+
1 row in set (0.00 sec)
mysql> select city,avg(marks) from stud group by city having avg(marks)>70;
Empty set (0.00 sec)
mysql> select city,min(marks) from stud group by city having min(marks)<70;
+----+
| city | min(marks) |
+----+
| Nashik |
            50 |
|Pune |
           60 |
+----+
2 rows in set (0.00 sec)
```

DATE:-4/7/17

| 4 | Sachin | Manmad |

ASSIGNMENT No:-4

```
mysql> create dadabase student;
mysql> use student;
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>
mysql> show tables;
+----+
| Tables_in_student |
+----+
stud info
+----+
1 row in set (0.00 sec)
mysql> desc stud_info;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| rno | int(2) | YES | NULL | |
| name | varchar(20) | YES | NULL |
| address | varchar(30) | YES | NULL |
+----+
3 rows in set (0.00 sec)
mysql> insert into stud_info values(1,'Abhay','Nashik');
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud_info values(2,'Sarika','Pune');
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud_info values(3,'Riya','Nashik');
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud_info values(4,'Sachin','Manmad');
Query OK, 1 row affected (0.00 sec)
mysql> select * from stud_info;
+----+
|rno |name |address|
+----+
| 1 | Abhay | Nashik |
| 2 | Sarika | Pune |
| 3 | Riya | Nashik |
```

```
+----+
4 rows in set (0.00 sec)
mysql> create table stud_marks(rno int(2),dbms int(3),toc int(3));
Query OK, 0 rows affected (0.00 sec)
mysql> desc stud_marks;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| rno | int(2) | YES | | NULL | |
| dbms | int(3) | YES | | NULL | |
| toc | int(3) | YES | NULL | |
+----+
3 rows in set (0.01 sec)
mysql> insert into stud_marks values(1,50,45),(2,67,65),(3,76,55),(5,70,50);
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysgl> select * from stud marks;
+----+
| rno | dbms | toc |
+----+
| 1 | 50 | 45 |
| 2 | 67 | 65 |
| 3 | 76 | 55 |
| 5 | 70 | 50 |
+----+
4 rows in set (0.00 sec)
//Natural Join:-
mysql> select stud info.rno,name,dbms,toc from stud info,stud marks where
stud info.rno=stud marks.rno;
+----+
|rno |name |dbms|toc|
+----+
| 1 | Abhay | 50 | 45 |
| 2 | Sarika | 67 | 65 |
| 3 | Riya | 76 | 55 |
+----+
3 rows in set (0.00 sec)
//Left Join:-
mysql> select stud info.rno,name,dbms,toc from stud info left join stud marks on
stud_info.rno=stud_marks.rno;
+----+
|rno |name |dbms|toc|
```

```
+----+
 1 | Abhay | 50 | 45 |
 2 | Sarika | 67 | 65 |
 3 | Riya | 76 | 55 |
 4 | Sachin | NULL | NULL |
+----+
4 rows in set (0.00 sec)
//right Join:-
mysql> select stud marks.rno,name,dbms,toc from stud info right join stud marks on
stud_info.rno=stud_marks.rno;
+----+
|rno |name |dbms|toc|
+----+
| 1 | Abhay | 50 | 45 |
 2 | Sarika | 67 | 65 |
 3 | Riya | 76 | 55 |
| 5 | NULL | 70 | 50 |
+----+
```

//View On Natuaral Join:-

4 rows in set (0.00 sec)

mysql> create view v1 as select stud_info.rno,name,dbms,toc from stud_info,stud_marks where stud_info.rno=stud_marks.rno;

Query OK, 0 rows affected (0.00 sec)

```
mysql> select * from v1;
```

```
+----+----+
| rno | name | dbms | toc |
+----+
| 1 | Abhay | 50 | 45 |
| 2 | Sarika | 67 | 65 |
| 3 | Riya | 76 | 55 |
+----+
```

3 rows in set (0.00 sec)

//View On Left Join:-

mysql> create view v2 as select stud_info.rno,name,dbms,toc from stud_info left join stud_marks on stud_info.rno=stud_marks.rno;

Query OK, 0 rows affected (0.00 sec)

```
mysql> select * from v2;
```

```
+----+----+
| rno | name | dbms | toc |
+----+
| 1 | Abhay | 50 | 45 |
| 2 | Sarika | 67 | 65 |
| 3 | Riya | 76 | 55 |
```

```
4 | Sachin | NULL | NULL |
+----+
4 rows in set (0.00 sec)
//View On Right Join:-
mysql> create view v3 as select stud_marks.rno,name,dbms,toc from stud_info right join
stud_marks on stud_info.rno=stud_marks.rno;
Query OK, 0 rows affected (0.00 sec)
mysql> select * from v3;
+----+
|rno |name |dbms|toc|
+----+
| 1 | Abhay | 50 | 45 |
| 2 | Sarika | 67 | 65 |
| 3 | Riya | 76 | 55 |
| 5 | NULL | 70 | 50 |
+----+
4 rows in set (0.01 sec)
//DATE:-5/7/17
gurukul@ubuntu:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 36
Server version: 5.5.37-0ubuntu0.12.10.1 (Ubuntu)
Copyright (c) 2000, 2014, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+----+
| Database |
+----+
```

```
Database changed
mysql> show tables;
+----+
| Tables_in_industry |
+----+
| emp |
| employee |
| project
| v1
4 rows in set (0.00 sec)
mysql> create table Emp(Emp id int(2),Ename varchar(10),City varchar(20),Post
varchar(20),Salary int(8));
Query OK, 0 rows affected (0.00 sec)
mysql> desc Emp;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| Emp_id | int(2) | YES | | NULL | |
| Ename | varchar(10) | YES | NULL |
| City | varchar(20) | YES | NULL | |
| Post | varchar(20) | YES | NULL | |
| Salary | int(8) | YES | NULL | |
+----+
5 rows in set (0.00 sec)
mysql> insert into Emp values(1,'John','Nashik','Clerk',5000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into Emp values(2, 'Seema', 'Aurangabad', 'Developer', 20000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into Emp values(3,'Amita','Nagar','Manager',70000);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Emp values(4,'Rakesh','Pune','Analyst',50000);
Query OK, 1 row affected (0.01 sec)
mysql> select * from Emp;
+----+
| Emp id | Ename | City | Post | Salary |
```

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

mysql> use industry;

```
1 | John | Nashik | Clerk | 5000 |
   2 | Seema | Aurangabad | Developer | 20000 |
   3 | Amita | Nagar | Manager | 70000 |
   4 | Rakesh | Pune | Analyst | 50000 |
+----+
4 rows in set (0.00 sec)
//Single subquries:-
mysql> select * from Emp where Salary > (select Salary from Emp where Ename='John');
+-----+
| Emp_id | Ename | City | Post | Salary |
+-----+
   2 | Seema | Aurangabad | Developer | 20000 |
   3 | Amita | Nagar | Manager | 70000 |
   4 | Rakesh | Pune | Analyst | 50000 |
+-----+
3 rows in set (0.00 sec)
mysql> select * from Emp where city = (select City from Emp where Ename='Rakesh');
+----+
| Emp id | Ename | City | Post | Salary |
+----+
4 | Rakesh | Pune | Analyst | 50000 |
+----+
1 row in set (0.00 sec)
mysql> select * from Emp where Salary < (select avg(Salary) from Emp);
+----+
| Emp id | Ename | City | Post | Salary |
+----+
  1 | John | Nashik | Clerk | 5000 |
   2 | Seema | Aurangabad | Developer | 20000 |
+-----+
2 rows in set (0.00 sec)
mysql> select * from Emp where Salary = (select max(Salary) from Emp);
+----+
| Emp id | Ename | City | Post | Salary |
+----+
   3 | Amita | Nagar | Manager | 70000 |
+----+
1 row in set (0.00 sec)
//Multiple subquries:-
mysql> create table emp1(emp_id int(2),ename varchar(10),city varchar(20),post
varchar(15),salary int(10),deptno int(3));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> desc emp1;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| emp_id | int(2) | YES | | NULL | |
ename | varchar(10) | YES | NULL |
city | varchar(20) | YES | NULL | |
| post | varchar(15) | YES | NULL | |
salary | int(10) | YES | NULL |
| deptno | int(3) | YES | NULL |
+----+
6 rows in set (0.00 sec)
mysql> insert into emp1 values(1,'john','nashik','clerk',5000,10);
Query OK, 1 row affected (0.01 sec)
mysql> insert into emp1 values(2,'seema','aurangabad','developer',20000,20);
Query OK, 1 row affected (0.00 sec)
mysql> insert into emp1 values(3,'amita','nagar','manager',70000,20);
Query OK, 1 row affected (0.00 sec)
mysql> insert into emp1 values(4,'rakesh','pune','analyst',8000,10);
Query OK, 1 row affected (0.01 sec)
mysgl> insert into emp1 values(5, 'samata', 'nashik', 'tester', 20000, 10);
Query OK, 1 row affected (0.01 sec)
mysql> insert into emp1 values(6,'ankita','chandwad','developer',30000,30);
Query OK, 1 row affected (0.00 sec)
mysql> insert into emp1 values(7,'bhavika','pune','team-lr',50000,30);
Query OK, 1 row affected (0.00 sec)
mysql> insert into emp1 values(8,'deepa','nashik','coe',90000,10);
Query OK, 1 row affected (0.01 sec)
mysql> select * from emp1;
| emp_id | ename | city | post | salary | deptno |
+-----+
   1 | john | nashik | clerk | 5000 | 10 |
   2 | seema | aurangabad | developer | 20000 |
   3 | amita | nagar | manager | 70000 | 20 |
   4 | rakesh | pune | analyst | 8000 | 10 |
   5 | samata | nashik | tester | 20000 | 10 |
   6 | ankita | chandwad | developer | 30000 | 30 |
```

```
7 | bhavika | pune | team-lr | 50000 | 30 |
   8 | deepa | nashik | coe | 90000 |
                                      10 |
+-----+
8 rows in set (0.01 sec)
mysql> select ename, salary, deptno from emp1 where salary in (select min(salary) from
emp1 group by deptno);
+----+
| ename | salary | deptno |
+----+
|john | 5000 | 10 |
| seema | 20000 | 20 |
| samata | 20000 | 10 |
| ankita | 30000 | 30 |
+----+
4 rows in set (0.00 sec)
mysql> select ename, salary, deptno from emp1 where salary > all (select salary from emp1
where post='developer');
+----+
| ename | salary | deptno |
+----+
| amita | 70000 |
                 20 |
| bhavika | 50000 | 30 |
|deepa | 90000 | 10 |
+----+
3 rows in set (0.01 sec)
mysql> select ename, salary, deptno from emp1 where salary < any (select salary from emp1
where post='developer');
+----+
| ename | salary | deptno |
+----+
|john | 5000 | 10 |
| seema | 20000 | 20 |
|rakesh | 8000 | 10 |
| samata | 20000 | 10 |
+----+
4 rows in set (0.00 sec)
mysql> select ename, salary, deptno from emp1 where salary > any (select salary from emp1
where post='developer');
+----+
| ename | salary | deptno |
```

+----+ | amita | 70000 |

| bhavika | 50000 | 30 |

| ankita | 30000 |

20 |

30 |

```
|deepa | 90000 | 10 |
+----+
4 rows in set (0.00 sec)
// Study Assignment:-
mysql> create table cust info(c id int(2),cname varchar(10),city varchar(20));
Query OK, 0 rows affected (0.00 sec)
mysql> desc cust info;
+-----+
| Field | Type | Null | Key | Default | Extra | +-----+
| c_id | int(2) | YES | | NULL | |
| cname | varchar(10) | YES | NULL | |
city | varchar(20) | YES | NULL | |
+----+
3 rows in set (0.00 sec)
mysql> insert into cust_info values(1,'john','nashik');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust_info values(2,'seema','aurangabad');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust info values(3,'amita','nagar');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust info values(4,'rakesh','pune');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust_info values(5,'samata','nashik');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust_info values(6,'ankita','chandwad');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust_info values(7,'bhavika','pune');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust info values(8,'deepa','mumbai');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust info values(9,'nitin','nagpur');
Query OK, 1 row affected (0.00 sec)
mysql> insert into cust_info values(10,'pooja','pune');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from cust_info;
+----+
|c id|cname |city |
+----+
| 1 | john | nashik |
| 2 | seema | aurangabad |
| 3 | amita | nagar
| 4 | rakesh | pune
| 5 | samata | nashik |
| 6 | ankita | chandwad |
| 7 | bhavika | pune
| 8 | deepa | mumbai |
| 9 | nitin | nagpur |
| 10 | pooja | pune
+----+
10 rows in set (0.00 sec)
mysql> create table acc_info(c_id_int(2),acc_type varchar(12),amount int(8));
Query OK, 0 rows affected (0.00 sec)
mysql> desc acc info;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
|c_id | int(2) | YES | | NULL | |
| acc_type | varchar(12) | YES | NULL |
| amount | int(8) | YES | NULL | |
+----+
3 rows in set (0.00 sec)
mysql> insert into acc_info values(1,'current',5000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc_info values(2,'saving',20000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc_info values(3,'saving',70000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc info values(4,'saving',50000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc info values(6,'current',35000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc_info values(7,'loan',30000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into acc_info values(8,'saving',50000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc_info values(9,'saving',90000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc_info values(10,'loan',8000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into acc_info values(11,'current',45000);
Query OK, 1 row affected (0.00 sec)
mysql> select * from acc_info;
+----+
| c id | acc type | amount |
+----+
 1 | current | 5000 |
| 2 | saving | 20000 |
| 3 | saving | 70000 |
| 4 | saving | 50000 |
| 6 | current | 35000 |
| 7 | loan | 30000 |
| 8 | saving | 50000 |
| 9 | saving | 90000 |
| 10 | loan | 8000 |
| 11 | current | 45000 |
+----+
```

10 rows in set (0.00 sec)

```
Class: TE comp B
Roll no.: 55
//////Procedure with no parameters:-
mysql> delimiter //
mysql> create procedure Allstud()
 -> begin
 -> select * from stud;
 -> end
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> delimiter;
mysql> call Allstud();
+----+
|rno |name |city |marks|
+----+
| 2 | Jayu | Nashik | 80 |
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
+----+
4 rows in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
////////Procedure with single parameter:-
mysql> delimiter //
mysql> create procedure p2(IN Sname varchar(20))
 -> select * from stud where name=Sname;
 -> end:
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> call p2('Jayu')//
+----+
| rno | name | city | marks |
+----+
| 2 | Jayu | Nashik | 80 |
+----+
1 row in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

Name: Sharma Sagar Ganesh

```
///////Procedure with multiple parameters:-
mysql> select *from stud;
  -> //
+----+
|rno |name |city |marks|
+----+
| 2 | Jayu | Nashik | 80 |
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
+----+
4 rows in set (0.00 sec)
//////UPDATE:-
mysql> create procedure p3(IN Rno1 int(3),Sname varchar(20))
  -> begin
 -> update stud set name=Sname where rno=Rno1;
 -> end
  -> //
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter;
mysql> call p3(2,'Kritika');
Query OK, 1 row affected (0.01 sec)
mysql> select *from stud;
+----+
|rno |name |city |marks|
+----+
| 2 | Kritika | Nashik | 80 |
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
+----+
4 rows in set (0.01 sec)
////////INSERT:-
mysql> create procedure p6(IN Rno1 int(3),Sname varchar(20),City_name
varchar(20),Marks int(3))
  -> begin
 -> insert into stud values(Rno1,Sname,City_name,marks);
  -> end
  -> //
```

```
Query OK, 0 rows affected (0.00 sec)
mysql> delimiter;
mysql> call p6(8,'Krushna','Nashik',90);
Query OK, 1 row affected (0.00 sec)
mysgl> select * from stud;
+----+
|rno |name |city |marks|
+----+
| 2 | Kritika | Nashik | 80 |
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
| 8 | Krushna | Nashik | 90 |
+----+
5 rows in set (0.01 sec)
///////DELETE:-
mysql> select * from stud;
+----+
|rno |name |city |marks|
+----+
| 2 | Kritika | Nashik | 80 |
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
| 8 | Krushna | Nashik | 90 |
+----+
5 rows in set (0.01 sec)
mysql> delimiter //
mysql> create procedure p7()
 -> begin
 -> delete from stud where rno=2;
 -> end
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> delimiter;
mysql> call p7();
Query OK, 1 row affected (0.00 sec)
mysql> select * from stud;
+----+
|rno |name |city |marks|
```

+----+

```
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5|Komu | Pune | 70|
| 8 | Krushna | Nashik | 90 |
+----+
4 rows in set (0.00 sec)
/// OUT Parameter:-
mysql> select * from stud;
+----+
|rno |name |city |marks|
+----+
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
| 8 | Krushna | Nashik | 90 |
+----+
4 rows in set (0.00 sec)
mysql> delimiter //
mysql> create procedure s1(OUT Sname varchar(20))
 -> begin
 -> select name into Sname from stud where rno=3;
 -> end;
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> call s1(@Sname)//
Query OK, 1 row affected (0.00 sec)
mysql> select @Sname//
+----+
| @Sname |
+----+
| Snehal |
+----+
1 row in set (0.00 sec)
OUT with more than 1 select stmt:-
mysql> create procedure s2(IN Rno1 int(3),Sname varchar(20))
 -> begin
 -> select * from stud where rno=Rno1;
 -> select * from stud where name=Sname;
 -> select * from stud;
```

```
-> end;
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> call s2(3,'Snehal')//
+----+
|rno |name |city|marks|
+----+
| 3 | Snehal | Pune | 60 |
+----+
1 row in set (0.00 sec)
+----+
| rno | name | city | marks |
+----+
| 3 | Snehal | Pune | 60 |
+----+
1 row in set (0.00 sec)
+----+
|rno |name |city |marks|
+----+
| 3 | Snehal | Pune | 60 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
| 8 | Krushna | Nashik | 90 |
+----+
4 rows in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
INOUT:-
mysql> create procedure s3(IN Rno1 int(3),OUT Sname varchar(20))
 -> begin
 -> select name into Sname from stud where rno=Rno1;
 -> end
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> delimiter;
mysql> call s3(3,@Sname);
Query OK, 1 row affected (0.00 sec)
mysql> select @Sname;
+----+
| @Sname |
```

```
| Snehal |
1 row in set (0.00 sec)
INOUT Parameter Example:-
mysql> delimiter $
mysql> create procedure set_counter(INOUT count int(4))
  -> begin
 -> set count=count+10;
  -> end
 -> $
Query OK, 0 rows affected (0.00 sec)
mysql> delimiter;
mysql> set @count=1;
Query OK, 0 rows affected (0.00 sec)
mysql> call set_counter(@count);
Query OK, 0 rows affected (0.00 sec)
mysql> select @count;
+----+
| @count |
+----+
 11 |
+----+
1 row in set (0.00 sec)
CONTROL STATEMENT Example:-
mysql> delimiter //
mysql> create procedure s5(IN Rno1 int(3))
 -> begin
 -> Declare marks1 int;
 -> if(Rno1>5) then
 -> set marks1=70;
 -> else
 -> set marks1=90;
  -> end if;
  -> update stud set marks=marks1 where rno=Rno1;
  -> end
  -> //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> delimiter;
mysql> call s5(3);
Query OK, 1 row affected (0.00 sec)
mysql> select * from stud;
+----+
|rno |name |city |marks|
+----+
| 3 | Snehal | Pune | 90 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
| 8 | Krushna | Nashik | 90 |
+----+
4 rows in set (0.00 sec)
ASSIGNMENT:-
mysql> create table Borrower(Roll_no int(3),Name varchar(20),Dateofissue
date, Name of Book varchar(20), Status varchar(5));
Query OK, 0 rows affected (0.00 sec)
mysql> insert into Borrower values(1,'Amita',"2017-06-25",'Java','I');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Borrower values(2,'Sonakshi',"2017-07-10",'Networking','I');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Borrower values(3,'Nira',"2017-05-22",'MySQL','I');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Borrower values(4,'Jagdish',"2017-06-10",'DBMS','I');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Borrower values(5,'Jayshri',"2017-07-05",'MySQL','I');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Borrower values(6,'Kiran',"2017-06-30",'Java','I');
Query OK, 1 row affected (0.00 sec)
mysql> select * from Borrower;
+----+
| Roll no | Name | Dateofissue | NameofBook | Status |
+----+
    1 | Amita | 2017-06-25 | Java
    2 | Sonakshi | 2017-07-10 | Networking | I |
    3 | Nira | 2017-05-22 | MySQL | | |
    4 | Jagdish | 2017-06-10 | DBMS | I |
```

```
5 | Jayshri | 2017-07-05 | MySQL | | I |
   6 | Kiran | 2017-06-30 | Java | I |
+----+
6 rows in set (0.00 sec)
mysgl> create table Fine(Roll no int(3), Date date, Amt int(5));
Query OK, 0 rows affected (0.00 sec)
mysql> select * from Fine;
Empty set (0.00 sec)
mysal> desc Fine:
+-----+
| Field | Type | Null | Key | Default | Extra |
+----+
| Roll_no | int(3) | YES | | NULL | |
|Date |date |YES | |NULL | |
| Amt | int(5) | YES | | NULL |
+----+
3 rows in set (0.00 sec)
mysql> delimiter $
mysql> create procedure p1(IN rno int(3),name varchar(20))
 -> begin
 -> update Borrower set Status='R' where Roll no=rno and NameofBook=name;
 -> end;
 -> $
Query OK, 0 rows affected (0.00 sec)
mysql> delimiter;
mysql> call p1(1,'Java');
Query OK, 1 row affected (0.00 sec)
mysgl> select * from Borrower;
+-----+
| Roll no | Name | Dateofissue | NameofBook | Status |
+----+
   1 | Amita | 2017-06-25 | Java | R |
   2 | Sonakshi | 2017-07-10 | Networking | I |
   3 | Nira | 2017-05-22 | MySQL | I |
   4 | Jagdish | 2017-06-10 | DBMS | I |
   5 | Jayshri | 2017-07-05 | MySQL | | | |
   6 | Kiran | 2017-06-30 | Java | I |
+----+
6 rows in set (0.00 sec)
```

```
mysql> create procedure ppp(IN rno1 int(3),name1 varchar(30))
  -> begin
  -> Declare i date date;
  -> Declare diff int;
  -> Declare fine amt int;
  -> select Dateofissue into i_date from Borrower where Roll_no=rno1 and
NameofBook=name1;
  -> select DATEDIFF(CURDATE(),i date) into diff;
  -> if(diff>=15 and diff<=30)then
  -> SET fine amt=diff*5;
  -> insert into Fine values(rno1,CURDATE(),fine_amt);
  -> elseif(diff>30)then
  -> SET fine amt=diff*50;
  -> insert into Fine values(rno1,CURDATE(),fine_amt);
  -> End if:
  -> update Borrower set status='R' where Roll_no=rno1 and NameofBook=name1;
  -> end;
  -> //
Query OK, 0 rows affected (0.00 sec)
mysql> call ppp(3,'MySQL');
 -> //
Query OK, 1 row affected (0.00 sec)
mysql> select * from Borrower;
  -> //
+----+
| Roll_no | Name | Dateofissue | NameofBook | Status |
+----+
    1 | Amita | 2017-06-25 | Java
                                  IR |
    2 | Sonakshi | 2017-07-10 | Networking | I
    3 | Nira | 2017-05-22 | MySQL | R |
    4 | Jagdish | 2017-06-10 | DBMS
    5 | Jayshri | 2017-07-05 | MySQL | | I
    6 | Kiran | 2017-06-30 | Java | I |
+----+
6 rows in set (0.00 sec)
mysql> select * from Fine;
+----+
| Roll_no | Date | Amt |
+----+
    3 | 2017-07-18 | 2850 |
+----+
1 row in set (0.00 sec)
```

```
Class: TE comp B
Roll no.: 55
ASIGNMENT NO:-7
CURSOR:-
mysql> show databases;
+----+
| Database |
+----+
| information_schema |
| college |
| industry |
| mysql
| performance_schema |
| student |
| xyz
7 rows in set (0.01 sec)
mysql> use industry;
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_industry |
+----+
| Emp
acc_info
cust_info
| emp
emp1
| employee
| project
| v1
8 rows in set (0.00 sec)
```

Name: Sharma Sagar Ganesh

mysql> desc Emp;

```
| Field | Type | Null | Key | Default | Extra |
+-----+
| Emp_id | int(2) | YES | | NULL | |
| Ename | varchar(10) | YES | NULL |
| City | varchar(20) | YES | NULL | |
| Post | varchar(20) | YES | NULL | |
| Salary | int(8) | YES | NULL | |
+----+
5 rows in set (0.00 sec)
mysql> select * from Emp;
+-----+
| Emp_id | Ename | City | Post | Salary |
+-----+
   1 | John | Nashik | Clerk | 5000 |
   2 | Seema | Aurangabad | Developer | 20000 |
   3 | Amita | Nagar | Manager | 70000 |
   4 | Rakesh | Pune | Analyst | 50000 |
+-----+
4 rows in set (0.00 sec)
mysql> delimiter //
mysql> create procedure sal_cur2()
 -> begin
 -> declare eno1 int(2);
 -> declare sal1 int(20);
 -> declare exit_loop boolean;
 -> declare c1 cursor for select Emp id, Salary from Emp;
 -> declare continue handler for not found set exit_loop=true;
 -> open c1;
 -> emp_loop:loop
 -> fetch c1 into eno1,sal1;
 -> select eno1,sal1;
 -> if exit loop then
 -> close c1;
 -> leave emp_loop;
 -> end if;
 -> end loop emp loop;
 -> end
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> call sal cur2();
 -> //
+----+
| eno1 | sal1 |
```

```
+----+
| 1 | 5000 |
+----+
1 row in set (0.00 sec)
+----+
| eno1 | sal1 |
+----+
| 2 | 20000 |
+----+
1 row in set (0.00 sec)
+----+
| eno1 | sal1 |
+----+
| 3 | 70000 |
+----+
1 row in set (0.00 sec)
+----+
| eno1 | sal1 |
+----+
| 4 | 50000 |
+----+
1 row in set (0.00 sec)
+----+
| eno1 | sal1 |
+----+
| 4 | 50000 |
+----+
1 row in set (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> delimiter //
mysql> create procedure sal()
  -> begin
  -> declare eno1 int(3);
  -> declare sal1 int(20);
  -> declare exit_loop boolean;
  -> declare c2 cursor for select Emp_id,Salary from Emp;
  -> declare continue handler for not found set exit_loop=true;
  -> open c2;
  -> emp_loop:loop
  -> fetch c2 into eno1,sal1;
  -> if sal1>4000 then
```

```
-> else update Emp set Salary=sal1+1000 where Emp_id=eno1;
  -> end if:
  -> if exit_loop then close c2;
  -> leave emp loop;
  -> end if;
  -> end loop emp_loop;
  -> end
Query OK, 0 rows affected (0.00 sec)
mysql> call sal();
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> select * from Emp;
 -> //
+-----+
| Emp_id | Ename | City | Post | Salary |
+-----+
   1 | John | Nashik | Clerk | 10000 |
   2 | Seema | Aurangabad | Developer | 25000 |
   3 | Amita | Nagar | Manager | 75000 |
   4 | Rakesh | Pune | Analyst | 55000 |
+-----+
4 rows in set (0.00 sec)
ASSIGNMENT:-
mysql> create table O_rollcall(rno int(3) primary key,name varchar(20),addr varchar(30));
Query OK, 0 rows affected (0.01 sec)
mysql> insert into O_rollcall values(1,'Amit','Nashik');
Query OK, 1 row affected (0.01 sec)
mysql> insert into O_rollcall values(2,'Shital','Pune');
Query OK, 1 row affected (0.00 sec)
mysql> insert into O_rollcall values(3,'Ranak','Manmad');
Query OK, 1 row affected (0.00 sec)
mysql> select * from O rollcall;
+----+
|rno|name |addr |
+----+
| 1 | Amit | Nashik |
| 2 | Shital | Pune |
```

-> update Emp set Salary=sal1+5000 where Emp id=eno1;

```
| 3 | Ranak | Manmad |
+----+
3 rows in set (0.00 sec)
mysql> create table N rollcall(rno int(3),name varchar(20),addr varchar(30));Query OK, 0
rows affected (0.00 sec)
mysql> select * from N rollcall;
Empty set (0.01 sec)
mysql> insert into N_rollcall select * from O_rollcall;
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> select * from N rollcall;
+----+
|rno |name |addr |
+----+
| 1 | Amit | Nashik |
| 2 | Shital | Pune |
| 3 | Ranak | Manmad |
+----+
3 rows in set (0.00 sec)
mysql> delete from N_rollcall;
Query OK, 3 rows affected (0.00 sec)
mysql> select * from N_rollcall;
Empty set (0.00 sec)
Paraterized Procedure:-
mysql> delimiter //
mysql> create procedure new1(IN rno1 int(3))
  -> begin
  -> if not exists (select * from N_rollcall where rno=rno1) then
  -> insert into N_rollcall select * from O_rollcall where rno=rno1;
  -> end if:
  -> end
  -> //
Query OK, 0 rows affected (0.00 sec)
mysql> call new1(1)//
Query OK, 1 row affected (0.00 sec)
mysql> select * from N_rollcall;
  -> //
```

```
+----+
|rno |name|addr |
+----+
| 1 | Amit | Nashik |
+----+
1 row in set (0.00 sec)
Paraterized Cursor:-
mysql> create procedure new2(IN rno1 int(3))
 -> begin
  -> declare rno2 int(3);
 -> declare exit_loop boolean;
  -> declare c1 cursor for select rno from O rollcall where rno=rno1;
  -> declare continue handler for not found set exit_loop=true;
  -> open c1;
  -> emp_loop:loop
  -> fetch c1 into rno2;
  -> if not exists (select * from N_rollcall where rno=rno2) then
  -> insert into N_rollcall select * from O_rollcall where rno=rno2;
  -> end if;
  -> if exit_loop then
 -> close c1;
 -> leave emp_loop;
  -> end if;
 -> end loop emp_loop;
  -> end
  -> //
Query OK, 0 rows affected (0.00 sec)
mysql> call new2(1);
 -> //
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> select * from N_rollcall;
 -> //
+----+
|rno |name|addr |
+----+
| 1 | Amit | Nashik |
+----+
1 row in set (0.00 sec)
```

```
Roll no.: 55
ASSIGNMENT NO:-8
STORED FUNCTION:-
mysql> delimiter //
mysql> create function add1(a int,b int)returns int
 -> begin
 -> declare c int;
 -> set c=a+b;
 -> return c:
 -> end;
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> select add1(10,20);
 -> //
+----+
| add1(10,20) |
+----+
    30 I
+----+
1 row in set (0.01 sec)
mysql> create function max1(n1 int,n2 int)returns int
 -> begin
 -> declare maxno1 int;
 -> if (n1>n2) then
 -> set maxno1=n1;
 -> else
 -> set maxno1=n2:
 ->return maxno1;
 -> end if;
 ->end;
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> select max1(2,5);
 -> //
+----+
```

Name: Sharma Sagar Ganesh

Class: TE comp B

```
| max1(2,5) |
+----+
| 5|
+----+
1 row in set (0.00 sec)
mysql> select * from stud//
+----+
|rno |name |city |marks|
+----+
| 3 | Snehal | Pune | 90 |
| 4 | Prachi | Nashik | 50 |
| 5 | Komu | Pune | 70 |
| 8 | Krushna | Nashik | 90 |
+----+
4 rows in set (0.00 sec)
mysql> create function Rname(rno1 int)returns varchar(20)
 -> begin
 -> declare sname varchar(20);
 -> select name into sname from stud where rno=rno1;
 -> return sname;
 -> end:
 -> //
Query OK, 0 rows affected (0.00 sec)
mysql> select Rname(3);
 -> //
+----+
| Rname(3) |
+----+
| Snehal |
+----+
1 row in set (0.00 sec)
ASSIGNMENT:-
mysql> create table stud_marks(name varchar(20),total_marks int(8));
Query OK, 0 rows affected (0.00 sec)
mysql> insert into stud_marks values('Jayu',1000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud_marks values('Snehal',1200);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into stud_marks values('Komal',1300);
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud_marks values('Pooja',800);
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud_marks values('Neha',900);
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud marks values('Reena',850);
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud_marks values('Priynka',875);
Query OK, 1 row affected (0.00 sec)
mysgl> insert into stud marks values('Rahul',1100);
Query OK, 1 row affected (0.00 sec)
mysql> select * from stud_marks;
+----+
| name | total_marks |
+----+
| Jayu | 1000 |
| Snehal | 1200 |
| Komal | 1300 |
| Pooja | 800 |
| Neha |
            900 |
|Reena |
              850 |
| Priynka |
             875 |
|Rahul |
             1100 |
+----+
8 rows in set (0.00 sec)
mysql> create table Result(roll int(3),name varchar(20),class varchar(5));
Query OK, 0 rows affected (0.00 sec)
mysql> insert into Result values(1,'Jayu','TE');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Result values(2,'Snehal','TE');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Result values(2,'Komal','BE');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Result values(2,'Pooja','SE');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Result values(2,'Neha','FE');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Result values(2,'Reena','SE');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Result values(2,'Priynka','FE');
Query OK, 1 row affected (0.00 sec)
mysql> insert into Result values(2,'Rahul','BE');
Query OK, 1 row affected (0.00 sec)
mysql> select * from Result;
+----+
| roll | name | class |
+----+
| 1|Jayu |TE |
| 2 | Snehal | TE |
| 2 | Komal | BE |
| 2 | Pooja | SE |
| 2 | Neha | FE |
| 2 | Reena | SE |
| 2 | Priynka | FE |
| 2 | Rahul | BE |
+----+
8 rows in set (0.00 sec)
mysql> create function Forgrade(name1 varchar(20)) returns varchar(20)
  ->
      begin
  ->
       declare grade varchar(20);
  ->
       declare mark1 int;
      select total_marks into mark1 from stud_marks where name=name1;
  ->
      if(mark1>=990 and mark1<=1500) then
  ->
       set grade='Distinction';
  ->
       elseif (mark1>=900 and mark1<=989) then
  ->
  ->
       set grade='First class';
  ->
      elseif (mark1>=825 and mark1<=899) then
  ->
       set grade='Higher second class';
  ->
       end if;
  ->
       return grade;
  ->
       end;
```

->

//

Query OK, 0 rows affected (0.00 sec)

```
mysql> select Forgrade('Jayu')//
+----+
| Forgrade('Jayu') |
+----+
| Distinction |
+----+
1 row in set (0.00 sec)
H.W.:=
Update the class to grade using inner join query:-
mysql> delimiter //
mysql> create function Forgrade(name1 varchar(20)) returns varchar(20)
  begin
  declare grade varchar(20);
  declare mark1 int;
  select total_marks into mark1 from stud_marks where name=name1;
  if(mark1>=990 and mark1<=1500) then
  set grade='Distinction';
  elseif (mark1>=900 and mark1<=989) then
  set grade='First class';
  elseif (mark1>=825 and mark1<=899) then
  set grade='Higher second class';
  end if;
update
  return grade;
  end;
```

//