# \* MYSQL (RDBMS) - Structured

### 1) Successfully installed MySql

```
Microsoft Windows [Version 10.0.19045.4780]
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C:\Users\HP>mysql --version
mysql \text{Ver 8.0.39} for Win64 on x86_64 (MySQL Community Server - GPL)

C:\Users\HP>mysql -u root -p
Enter password: **************
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 16
Server version: 8.0.39 MySQL Community Server - GPL

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

mysql>
```

### 2) Show existing databases

3) Create new database

## 4) Create table in (awsdevops)database

```
mysql> use awsdevops;
Database changed
mysql> create table student(name varchar(30),ID int,address varchar(50),Marks int);
Query OK, 0 rows affected (0.04 sec)
mysql> desc student;
                      | Null | Key | Default | Extra |
           varchar(30) | YES
                                     NULL
 name
 ID
                                      NULL
           int
 address | varchar(50) | YES
                                      NULL
 Marks
                       YES
                                      NULL
 rows in set (0.00 sec)
```

#### 5) Insert some values in table

```
mysql> insert into student(name,id,address,marks)values('jasmin',10,'pune',80);
Query OK, 1 row affected (0.02 sec)
mysql> insert into student values('rohi',11,'mumbai',75);
Query OK, 1 row affected (0.02 sec)
mysql> insert into student values('ram',12,'pune',75),('sham',13,'Nagar',90);
Query OK, 2 rows affected (0.02 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> select * from student;
        | ID | address | Marks |
 jasmin |
            10 pune
                              80
            11 | mumbai
 rohi
 ram
            12
                 pune
                              90
 sham
            13 | Nagar
 rows in set (0.00 sec)
mysql>
```

6) Select particular columns from table.

```
mysql> select namé,id from student;
            id
 name
  jasmin
rohi
               10
               11
12
13
  ram
  sham
4 rows in set (0.00 sec)
mysql> select id,address,marks from student;
 id
          address | marks |
                         80
75
75
90
    10
          pune
    11
12
13
          mumbai
          pune
          Nagar
 rows in set (0.00 sec)
```

7) Select particular details from student table

```
mysql> select * from student where address='pune';
 name
           ID
                  address
                             Marks
                                      phoneNo
 jasmin
ram
                                80
75
             10
12
                   pune
                                         NULL
                                         NULL
                   pune
2 rows in set (0.00 sec)
mysql> select * from student where id=13;
                           Marks
 name
       | ID
                address
                                    phoneNo
 sham |
           13 | Nagar
                              90
                                       NULL
1 row in set (0.00 sec)
mysql> select * from student where marks=80;
                  address
                             Marks
                                      phoneNo
             10
                                80
 jasmin
                                         NULL
                  pune
1 row in set (0.00 sec)
mysql>
```

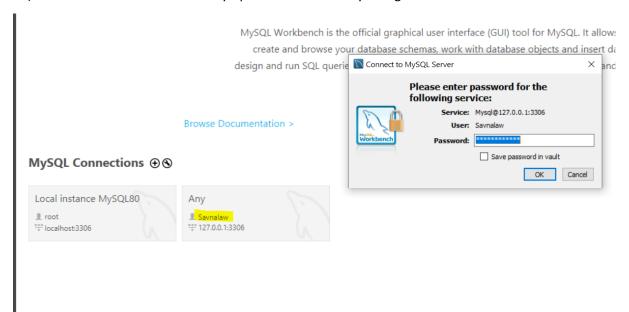
8) Delete column "phoneNo" from student table

```
mysql> alter table student drop column phoneNo;
Query OK, O rows affected (0.03 sec)
Records: O Duplicates: O Warnings: O
mysql> select * from student;
             ID
                      address
                                  Marks
  name
  jasmin
                10
                      pune
                                      80
                                      75
75
                11
                      mumbai
  rohi
                12
                      pune
  ram
  sham
                13
                                      90
                      Nagar
 rows in set (0.00 sec)
mysql>
```

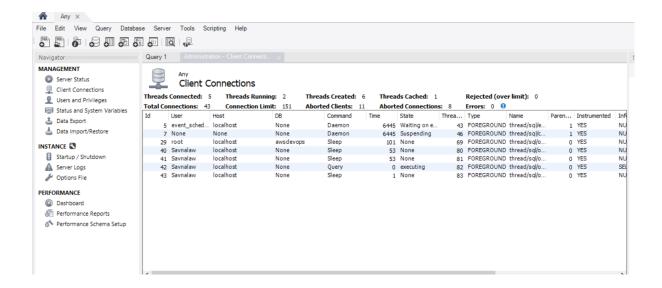
9) Create user "Savita" from mysql command line

```
mysql> create user 'Savita'@'localhost' identified by 'ABC@XYZqa1234';
Query OK, 0 rows affected (0.03 sec)
```

10) Created one more user from MySql Workbench and try to login



11) Successfully login



## ❖ NON-SQL (NRDBMS) Non-Structured

### 1) Installed Mongo

#### 2) Installed Mogo-Shell

```
Please enter a MongoOB connection string (Default: mongodb://localhost/): mongodb://127.0.0.1:27017/
mongodb://127.0.0.1:27017/
mongodb://127.0.0.1:27017/
Current MongoSh Log ID: 66d6d83f3b52d5d6fe2710bb
Connecting to: mongodb://127.0.0.1:27017/7directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.0
Using MongoOB: 5.0.28
Using MongoSh: 2.3.0

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

To help improve our products, anonymous usage data is collected and sent to MongoOB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

----

The server generated these startup warnings when booting
2024-09-03T14:43:51.308+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----
Warning: Found ~/.mongorc.js, but not ~/.mongoshrc.js. ~/.mongorc.js will not be loaded.
You may want to copy or rename ~/.mongorc.js to ~/.mongoshrc.js.
```

3) Used "cscorner" as database then created new collection as "student"

```
test> show dbs
admin 40.00 KiB
local 40.00 KiB
local 40.00 KiB
local 40.00 KiB
test> show database

MongoshInvalidInputError: [COMMON-10001] 'database' is not a valid argument for "show".

test> use cscorner
switched to db cscorner
cscorner> show dbs
admin 40.00 KiB
config 108.00 KiB
local 40.00 KiB
cscorner> db.createCollection("student")
{ ok: 1 }
cscorner> show dbs
admin 40.00 KiB
cscorner> 8.00 KiB
config 108.00 KiB
cscorner> 8.00 KiB
cscorner>
```

4) Created entries into student collection

```
cscorner> db.student
cscorner.student
cscorner> db.student.insertOne({Name:"Savita",Age:24})
{
   acknowledged: true,
   insertedId: ObjectId('66d6db153b52d5d6fe2710bc')
}
cscorner> db.student.insertOne({Name:"Sita",Age:25})
{
   acknowledged: true,
   insertedId: ObjectId('66d6db233b52d5d6fe2710bd')
}
cscorner> db.student.insertOne({Name:"Ram",Age:35})
{
   acknowledged: true,
   insertedId: ObjectId('66d6db383b52d5d6fe2710be')
}
```

5) Show all entries of student

6) shows collections in current database

```
cscorner> show collections
student
cscorner>
```

7) Find Multiple and single entry

8) Update existing entry

```
cscorner> db.student.updateOne({Name:'Ram'},{$set: {Name:'Sham'}})
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
cscorner> db.student.find()
[
   {
      _id: ObjectId('66d6db153b52d5d6fe2710bc'),
      Name: 'Savita',
      Age: 24
},
   { _id: ObjectId('66d6db233b52d5d6fe2710bd'), Name: 'Sita', Age: 25 },
   { _id: ObjectId('66d6db383b52d5d6fe2710be'), Name: 'Sham', Age: 35 },
   {
      _id: ObjectId('66d6dca43b52d5d6fe2710bf'),
      Name: 'Riya',
      Address: 'Pune'
}
]
cscorner>
```

#### 9) Delete entry

#### 10) Delete all the records

```
cscorner> db.student.deleteMany({})
{ acknowledged: true, deletedCount: 3 }
cscorner> db.student.find()
cscorner>
```

