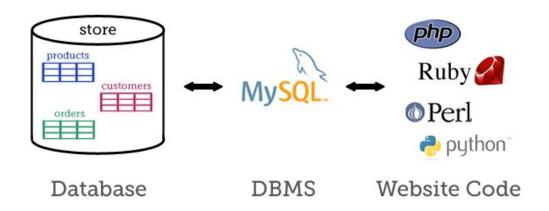
# MySQL



#### MySQL server



- Open-source relational database management system.
- Used for data operations like querying, sorting, filtering, grouping, modifying and joining the tables.
- Works in client-server or embedded system.

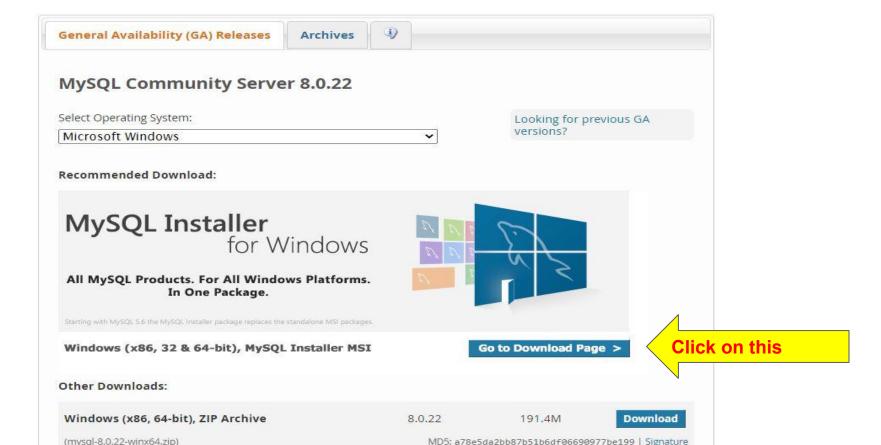


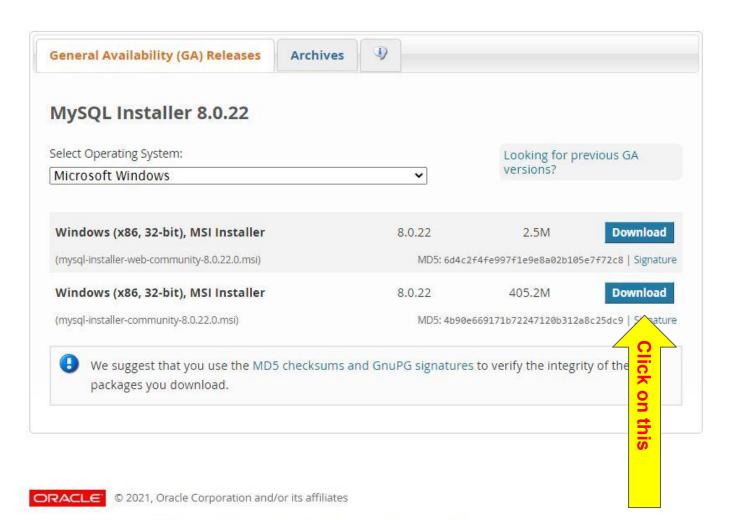
### Popular Websites Using MySQL

- Facebook
- Twitter
- Google
- Wikipedia
- Youtube
- Flickr
- **Pinterest**

### Installation steps

1. LINK - https://dev.mysql.com/downloads/mysql/





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#### MySQL Community Downloads

#### Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system



MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download.

**Click on this** 



#### Contact MySQL Sales

USA/Canada: +1-866-221-0634 (More Countries »)

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MySQL Cluster CGE		MySQL Workbench	Topic Guides
MySQL Embedded (OEM/ISV)			

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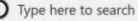
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mysql-installer-we....msi ^





















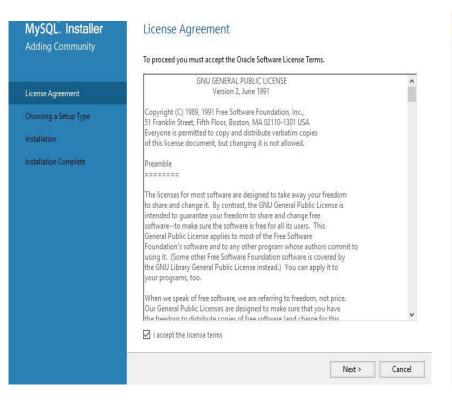


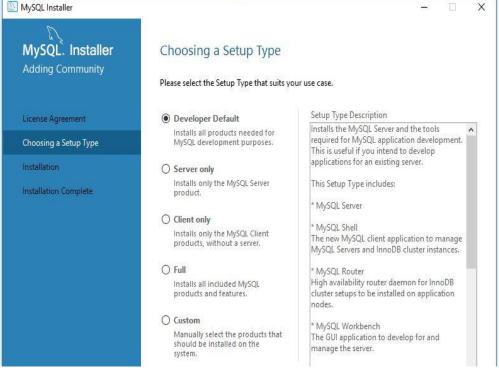




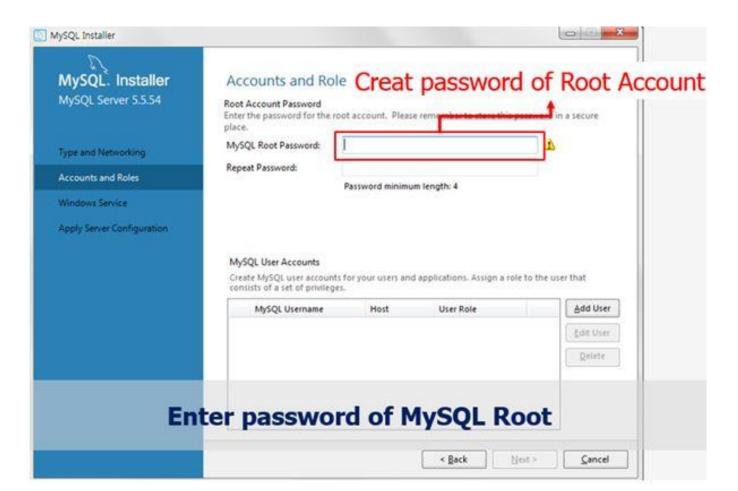


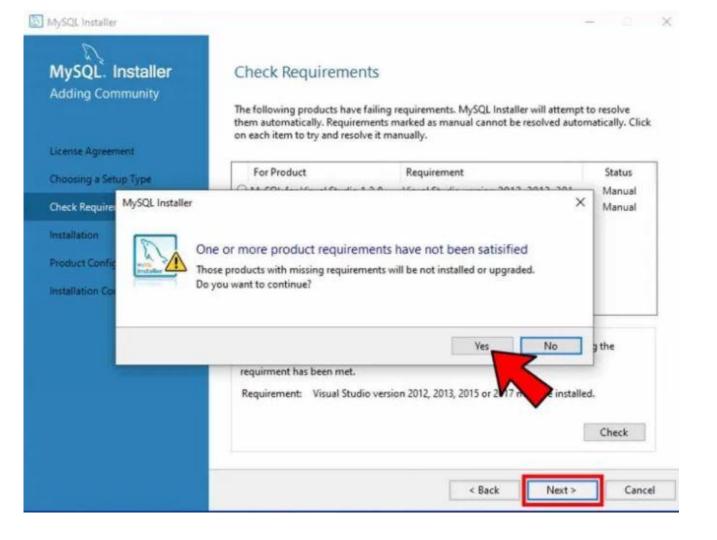
#### Complete the installation - MySQL Developer Edition

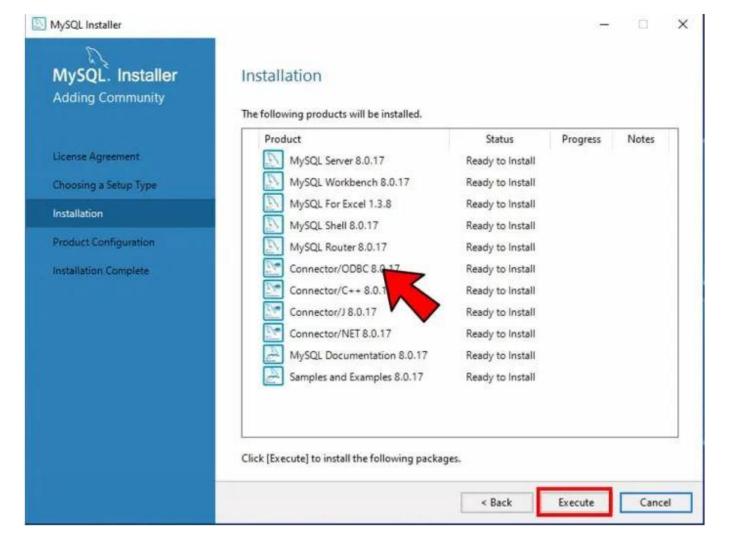




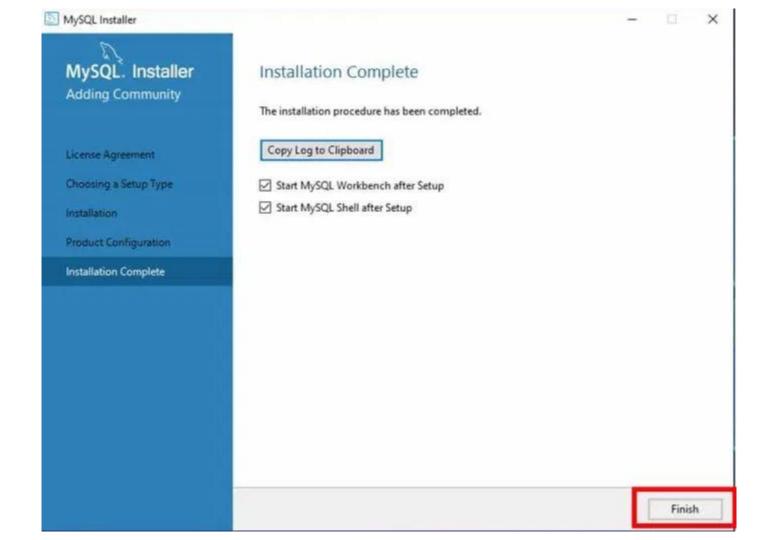
#### DO REMEMBER THE PASSWORD

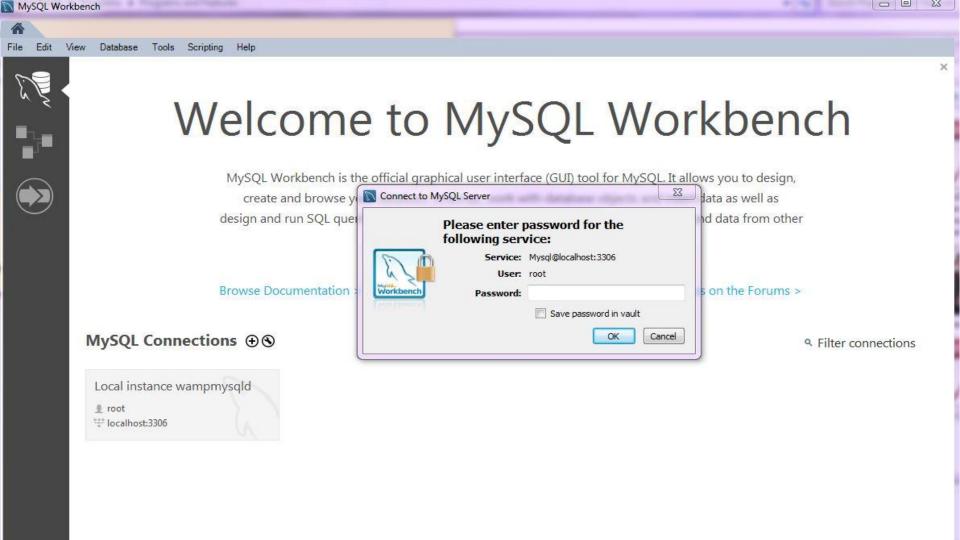


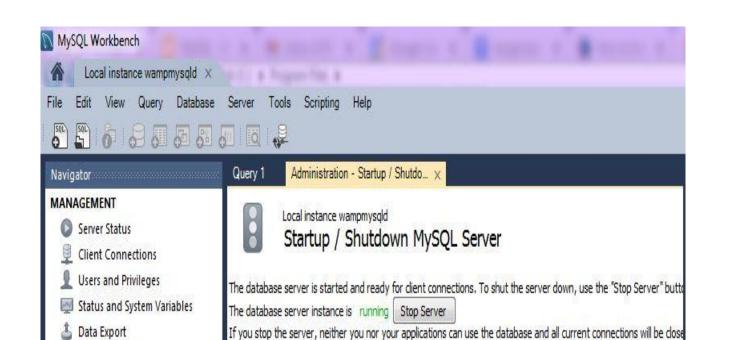




*	Configuration Steps Log		
	Writing configuration file		
High Availability	O Updating Windows Firewall rules		
Type and Networking	Adjusting Windows service		
Authentication Method	O Initializing database (may take a long time)		
Accounts and Roles	O Starting the server		
Windows Service	Applying security settings		
	O Updating the Start menu link		
Apply Configuration			
	< Back Execute Cancel		





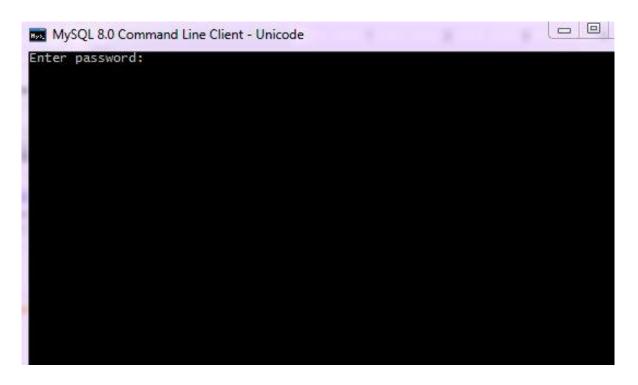


Data Import/Restore

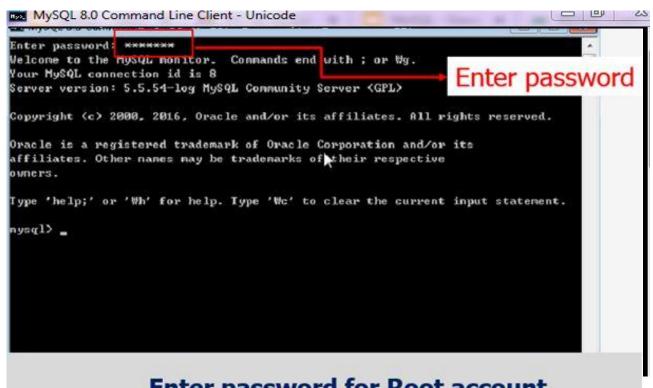
#### Using Command Line

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\kiit>cd C:\Program Files\MuSQL
C:\Program Files\MySQL>cd ...
C:\Program Files>cd C:\Program Files\MuSQL\MuSQL Server 8.0
C:\Program Files\MySQL\MySQL Server 8.0>cd bin
C:\Program Files\MySQL\MySQL Server 8.0\b n>mysql -u root -p
Enter password: ***
Welcome to the MySQL monitor. Commands end with ; or \q.
Your MySQL connection id is 17
Server version: 8.0.22 MySQL Community Server - GPL
Copyright (c) 2000, 2020, 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.
mysq1>
```

#### Using Command Line



#### Example:



**Enter password for Root account** 

#### With command line - create your database

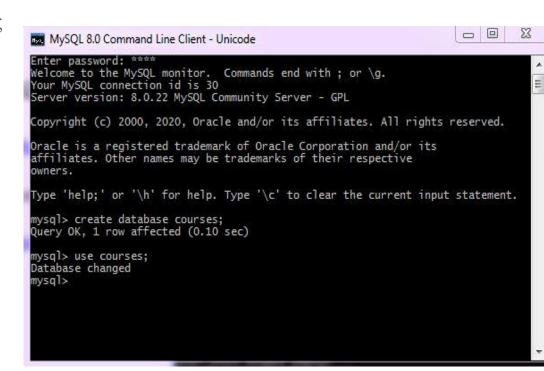
Enter password: \*\*\*\*

mysql> create database <databasename>;

e.g. mysql> create database courses;

mysql> use courses;

mysql> create table course......

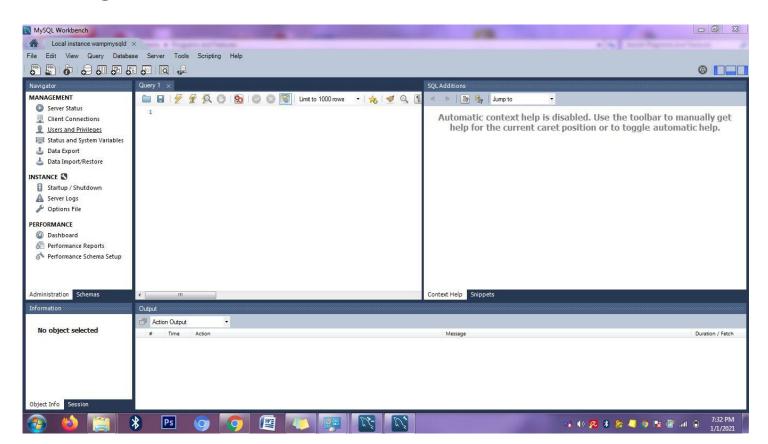


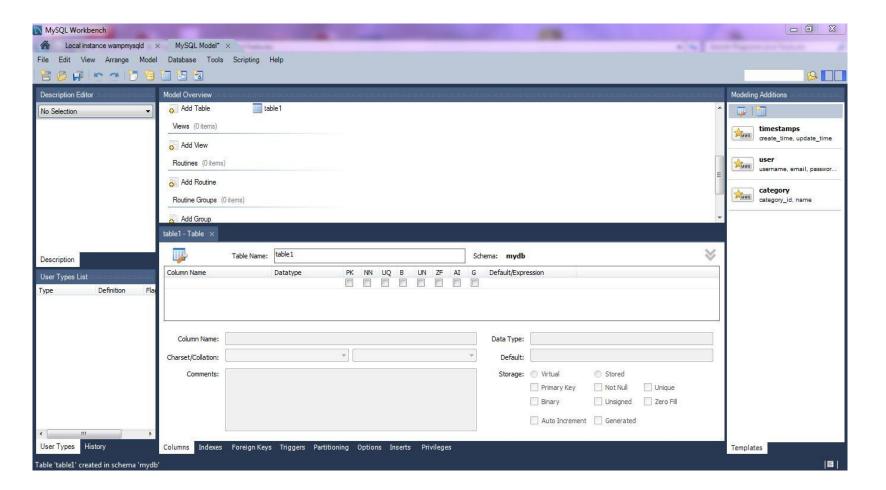
#### List the tables in your database

mysql> show tables;

```
MySQL 8.0 Command Line Client - Unicode
Server version: 8.0.22 MySQL Community Server - GPL
Copyright (c) 2000, 2020, 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> create database courses;
Query OK, 1 row affected (0.10 sec)
mysql> use courses;
Database changed
mysql> CREATE TABLE course (
          ID int NOT NULL,
          LastName varchar(255) NOT NULL,
          FirstName varchar(255),
           Age int,
           PRIMARY KEY (ID)
Query OK, O rows affected (1.81 sec)
mysql>
mysql> show tables;
 Tables_in_courses
  course
 row in set (0.25 sec)
mysal>
```

#### Using Workbench





#### Install MySQL in Linux

\$ Sudo apt install mysql-server

Enter your administrator credentials, and the system will install the MySQL server package, client packages, and database common files.

```
linuxh2o@linuxh2o-yt:=$ sudo apt install mysql-server
[sudo] password for linuxh2o:
```

```
Need to get 30.0 MB of archives.
After this operation, 245 MB of additional disk space will be used.
Do you want to continue? [Y/n] ■
```

LINK: <a href="https://phoenixnap.com/kb/how-to-install-mysql-on-ubuntu-18-04">https://phoenixnap.com/kb/how-to-install-mysql-on-ubuntu-18-04</a>

#### Set up MySQL Security

To install the MySQL security script

\$ Sudo mysql\_secure\_installation

```
F
                                        linuxh2o@linuxh2o-yt: ~
linuxh2o@linuxh2o-yt: $ sudo mysql secure installation
Securing the MySQL server deployment.
Connecting to MySQL using a blank password.
VALIDATE PASSWORD COMPONENT can be used to test passwords
and improve security. It checks the strength of password
and allows the users to set only those passwords which are
secure enough. Would you like to setup VALIDATE PASSWORD component?
Press y|Y for Yes, any other key for No:
```

#### Validate Password Plugin

Type y to enable or n to disable. This is your choice, but enabling this plugin is more secure.

```
There are three levels of password validation policy:
LOW
      Length >= 8
MEDIUM Length >= 8, numeric, mixed case, and special characters
STRONG Length >= 8, numeric, mixed case, special characters and dictionary
     file
Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 0
Please set the password for root here.
New password:
Re-enter new password:
Estimated strength of the password: 100
Do you wish to continue with the password provided?(Press y|Y for Yes, any other key fo
r No) : y
```

## Launch MySQL to Enter Commands \$ sudo mysql

```
F
                                        linuxh2o@linuxh2o-yt: ~
linuxh2o@linuxh2o-yt: $ sudo mysql
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.20-0ubuntu0.20.04.1 (Ubuntu)
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.
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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>
```

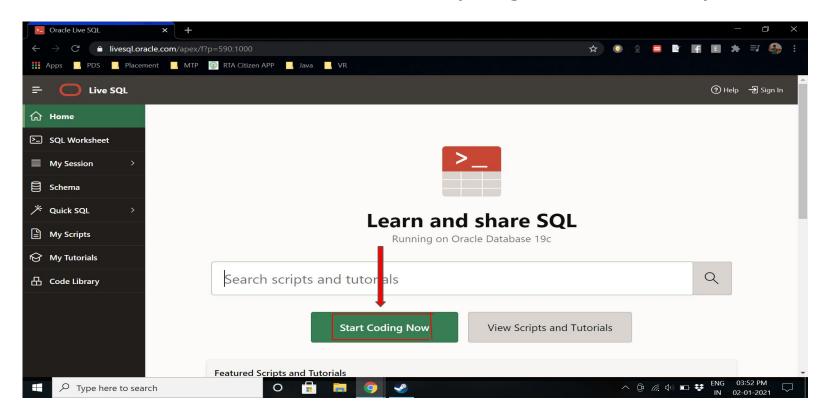
## ORACLE



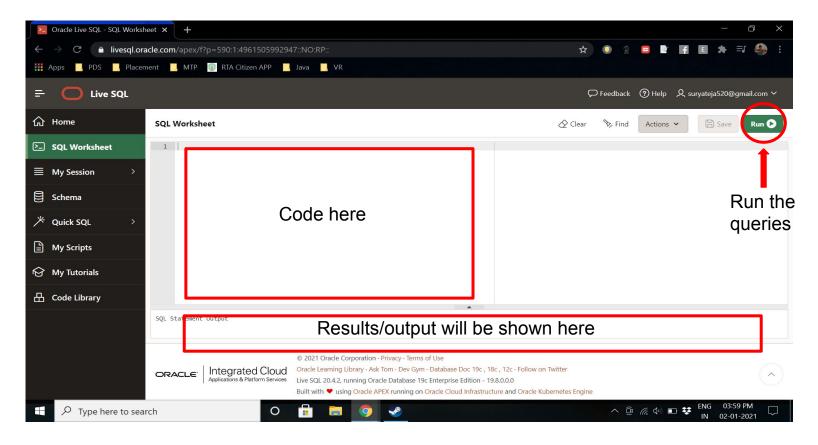
#### Introduction

- Oracle Database is a multi-model database management system produced and marketed by Oracle Corporation.
- Oracle LiveSQL is a cloud based service that provides access to an Oracle
   19c database instance.
- Provides oracle database features without the need to install anything on a server or local PC.
- LiveSQL's primary limitation is that one can only submit 2,000 SQL statements during a session. Typically this is more than enough to accommodate learning SQL and PL/SQL.

#### <a href="https://livesql.oracle.com">https://livesql.oracle.com</a> (Login required)

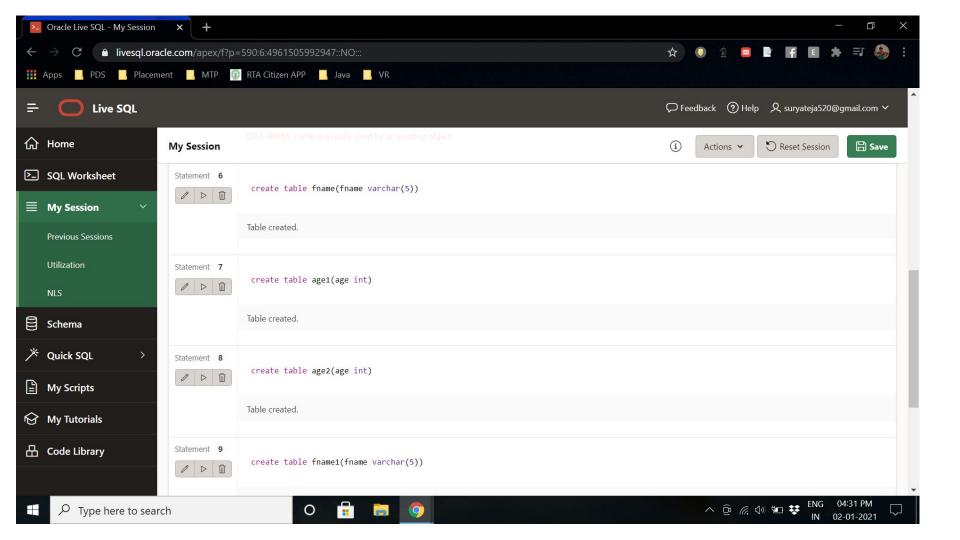


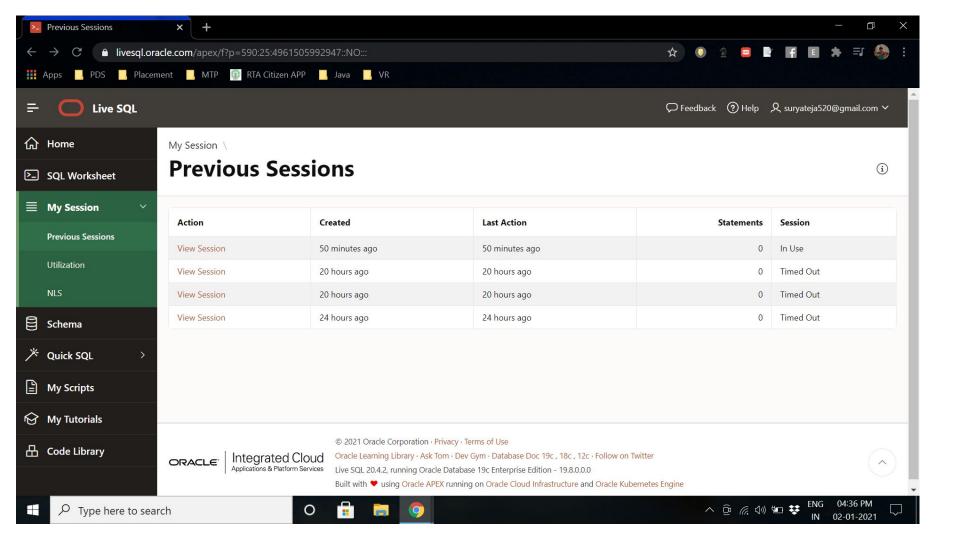
#### **SQL** Worksheet



#### Sessions

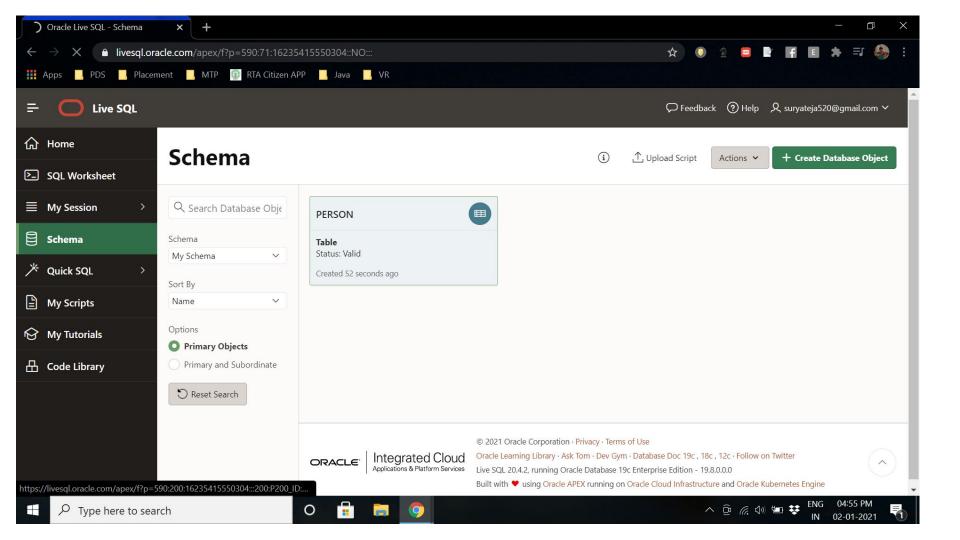
- Set of SQL statements you have executed
- A session uses a temporary schema
  - Initialized with each session (connection) to LiveSQL
  - Can save scripts with commands from previous sessions
  - Scripts can be saved either on your computer or in the LiveSQL environment associated with your username
- Live SQL maintains a history about session access

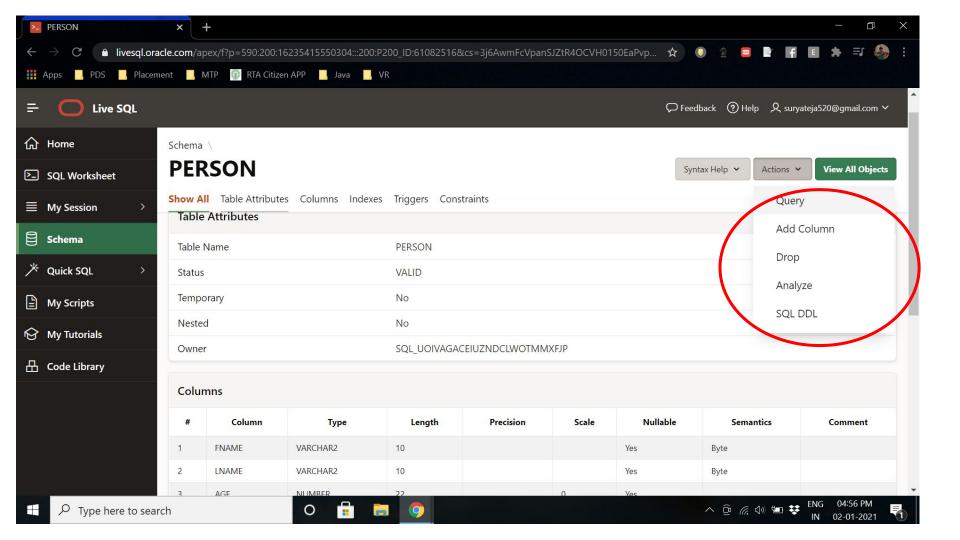


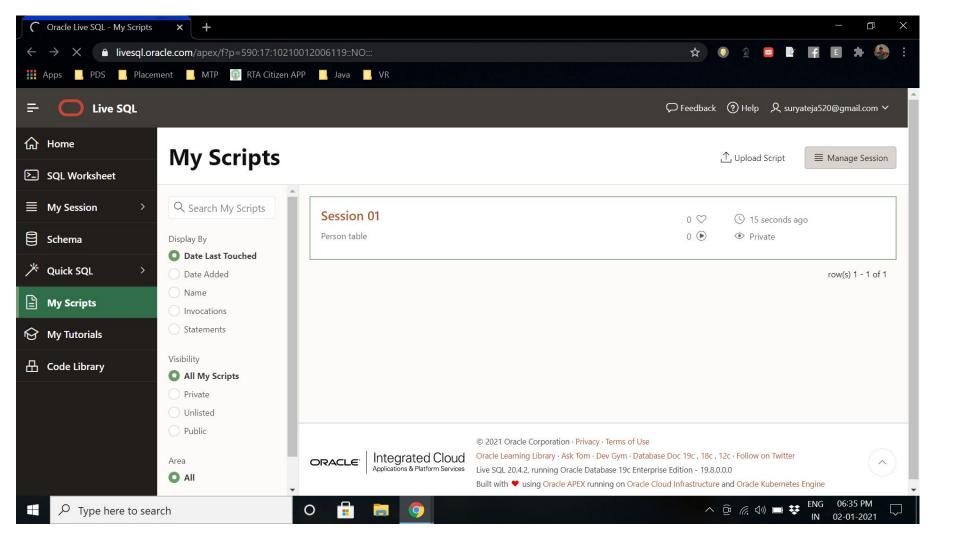


#### Schema

- Contains the different database objects created during a current session.
- The schema is lost on ending a session.
- It can be recreated using saved scripts / commands from previous sessions.
  - Saved scripts are accessible from the 'My Scripts' menu in Live SQL
- Tables can be manually created or modified in the schema tab.







## **THANK YOU**