1. Installation of MySQL Workbench and setup a local instance connection for hands on.

**1.Download MySQL Workbench**:

* Go to the MySQL website (https://www.mysql.com/downloads/) and find the MySQL Workbench section.
* Choose the appropriate version for your operating system (Windows, macOS, or Linux).
* Click on the download button to start the download.

**2.**

**Install MySQL Workbench**:

* + Once the download is complete, locate the downloaded file and double-click to run the installer.
  + Follow the installation wizard prompts:
    - Accept the license agreement.
    - Choose the destination folder for installation.
    - Optionally, choose whether to install additional features.
    - Click "Install" to begin the installation process.

**Setup a Local Instance Connection:**

**1.Install MySQL Server**:

* If you haven't already installed MySQL Server, you need to do so before setting up a connection.
* Download the MySQL Community Server from the MySQL website.
* Follow the installation instructions:
  + Choose setup type (typically, choose Server Only).
  + Configure MySQL Server settings, including root password.
  + Complete the installation.
* **Launch MySQL Workbench**:
  + Once MySQL Workbench is installed, launch it from your desktop or applications folder.
* **Create a New Connection**:
  + In MySQL Workbench, click on the "+" icon next to "MySQL Connections" in the home screen or from the top menu.
  + Enter a name for the connection (e.g., "Local MySQL").
  + Configure the connection parameters:
    - Connection Method: Standard TCP/IP over SSH.
    - Hostname: localhost (or 127.0.0.1).
    - Port: 3306 (default MySQL port).
    - Username: root (or your MySQL username).
    - Password: Enter the password you set during MySQL Server installation.
  + Click "OK" to save the connection settings.
* **Test the Connection**:
  + Click on the connection name you just created under "MySQL Connections" to connect to the local MySQL server.
  + If the connection is successful, you should see the server status and databases in the Navigator section of MySQL Workbench.