erwin Data Intelligence

erwin Data Quality

Software Installation Guide - Windows

Contents

1. Purpose

The document provides the end-to-end instructions to install the DQLabs application on a Windows environment. The audience of this document are personnel with a working technical knowledge of Windows Server and PowerShell. The document also assumes that the users have administrator privileges to complete the setup.

2. System Requirements

This section provides the minimum system requirements & mandatory requirements which are required to install the DQLabs application in the windows environment successfully.

2.1 System Requirements

Operating System	Windows Server 2019 64 bit
CPU Cores	16 or above
RAM	32 GiB or Above
Disk Space	Minimum 512 GB
Processor	64-bit Operating System

2.2 Software Requirements/Prerequisites

(Auto installed with the script)

PostgreSQL Server 12	64 bit
Python3.7 with pip3.7	64 bit
IIS Server	N/A
Java	1.8 JDK 64 bit
MSSQL, Oracle, PostgreSQL, MySQL ODBC/JDBC driver	64 bit

2.3 Mandatory Requirements:

- **Dedicated Server** - DQ labs needs a dedicated server for installation, and we recommend installation of Erwin DI and DQ on separate servers
- **Internet Access** - The server should have access to internet at the time of installation to successfully complete the installation and activate the application using a valid license key. Internet can be disabled upon successful set up of the DQLabs product.
- **License key** - A new DQ license key is required for activating the product upon installing the product
- **Administrator Privileges** - Should be able to run Windows Power Shell ISE with administrator privileges

3. Installation Process

3.1 Prerequisites Installation

Step3.1.1:

Open "PowerShell ISE" as administrator (Press Win key and search for "PowerShell ISE")

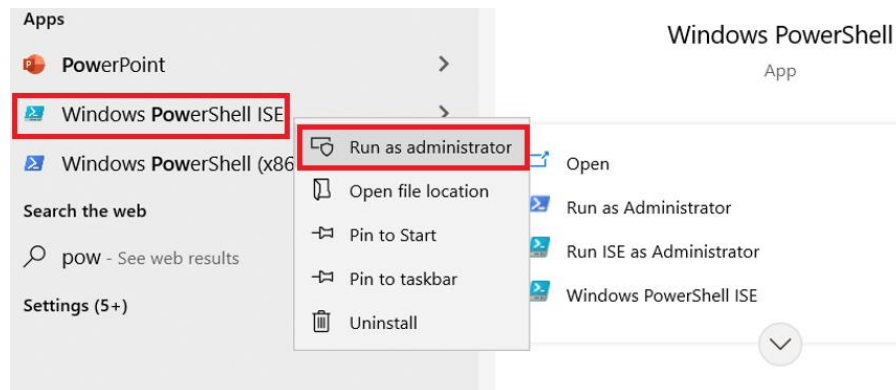(Right Click on Windows PowerShell ISE and click on "Run as administrator")

**Figure 1 (Running PowerShell as Administrator)**

Step 3.1.2:

- On the PowerShell ISE window, Click on File → To open a Power shell script file
- Locate the prerequisites installation script "Dqlabs_Windows_Prerequisites_install_V1.9" in the path "erwin Quest_DQlabs_Linux_Windows_Installation\Windows\Env-setup\"
- Select the file "Dqlabs_Windows_Prerequisites_install_V1.9"
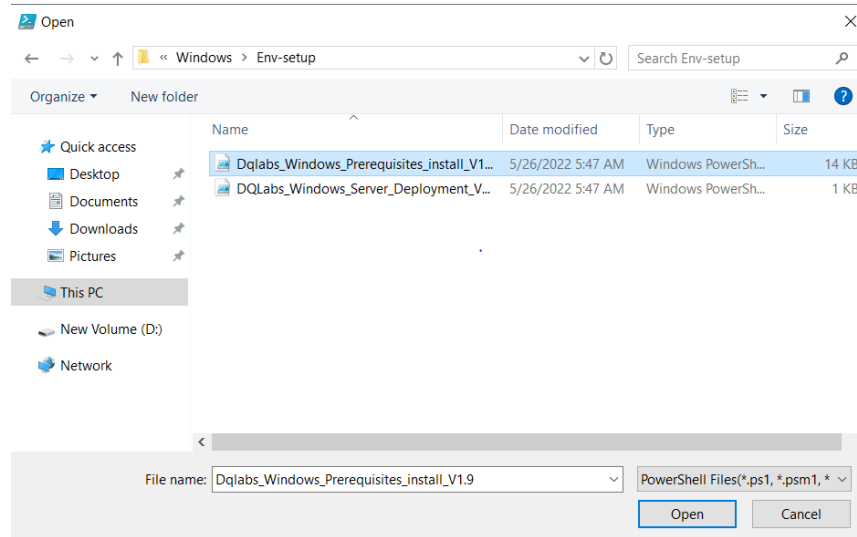
Figure 2 (Installation script)

Step 3.1.3:

Click the "Run Script" button in PowerShell (as shown in below reference image)
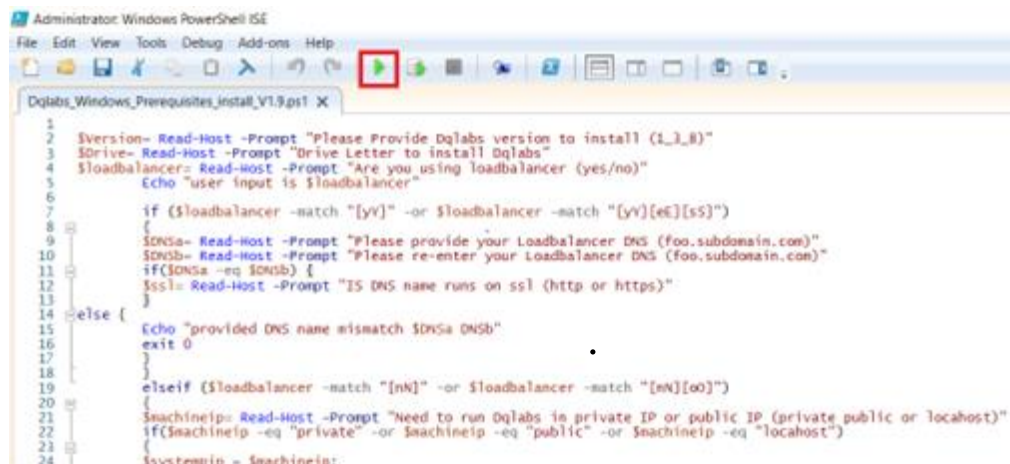
Figure 3 (Run Script)

Step 3.1.4:

Provide which DQlabs Version to install (for example: **1_3_8**)

Please verify the version number to be installed from the erwin Quest team

Figure 4 (Version)

Step 3.1.5:

Enter the **Disk Drive name** where the Dqlabs application is to be installed (for example: **D** in below ref. image)

Please **do not** enter the ":" symbol after the entering the drive letter name

Figure 5 (Disk Drive Name)

Step 3.1.6:

Enable or disable Load balancer service

- If you don't have a load balancer, enter **no** and hit enter

Figure 6.1 (Load Balancer - Option)

- If you are using load balancer type "**yes**" and hit enter
    - Then type your Load balancer DNS name (for example: demo.dqlabs.ai) and hit enter
    - Re-enter the same DNS name (for example: demo.dqlabs.ai) and hit enter
    - If DNS name runs on SSL, select **"https" Or "http"** and hit enter

Figure 6.2 (Loadbalancer)

Step 3.1.7:

Depending on your hosting server IP address type, please enter public or private

Example

- If the hosting server is on a Public IP, please type **public** and hit enter (Fig., 7.1)
- Else if the hosting server is on a Private IP, then please type **private** and hit enter

Figure 7.1 (If hosted in Public IP)

```
Are you using loadbalancer (yes/no): no
user input is no
Need to run Dqlabs in private IP or public IP (private public or locahost): private
```

Figure 7.2 (If hosted in Private IP)

Step 3.1.8:

- Once the script execution is success, the below status message will appear. (Please refer figure 8 below)
- Close the PowerShell prompt window if it is a success. It is important to close the PowerShell window as the installation script will have set some environment variables.


```
3.90.0.5
Ok.
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
Still running: ChromeInstaller
VERBOSE: Performing the operation "Remove File" on target "C:\Users\Administrator\AppData\Local\Temp\2\ChromeInstaller.exe".
Service "Spark_job_server" installed successfully!

Service "Dqlabs-server" installed successfully!



PS D:\nssm-2.24\nssm-2.24\win64> |
```

Figure 8 (DQLabs Server Installation Status)

Step 3.1.9:

Once the DQLabs Server installation is complete, we need to restart the Spark Job Server. To restart the Spart Job Server, please follow the below steps.

Restarting the Spark Job Server.

- Open **Command Prompt** with Administrator privilege and follow below steps
  - o Navigate to the Drive where the spark_job_server is installed (it is the same Drive name mentioned in **Step 3.1.5**). (e.g., in the command prompt type D: and press enter)
  - o Open sparkjobserver folder using command **cd spark-job-server.** Please refer the below screenshot (Figure 9.1).
  - o Now, restart the Spark job server using the command **sbt "~ job-server-extras/reStart"**

Figure 9.1 (Restart the Spark Job Server)

- o   When prompted, Press enter key, and this will close the command prompt

3.2   Verify - Prerequisites Installation

3.2.1: Environment Variables
- On the Windows taskbar, right-click the Windows icon and select **System**.
- In the Settings window, under Related Settings, click **Advanced system settings**.
- On the Advanced tab, click **Environment Variables**. On the Environment Variables windows, select **Path** under the System Variables section and click on **Edit**
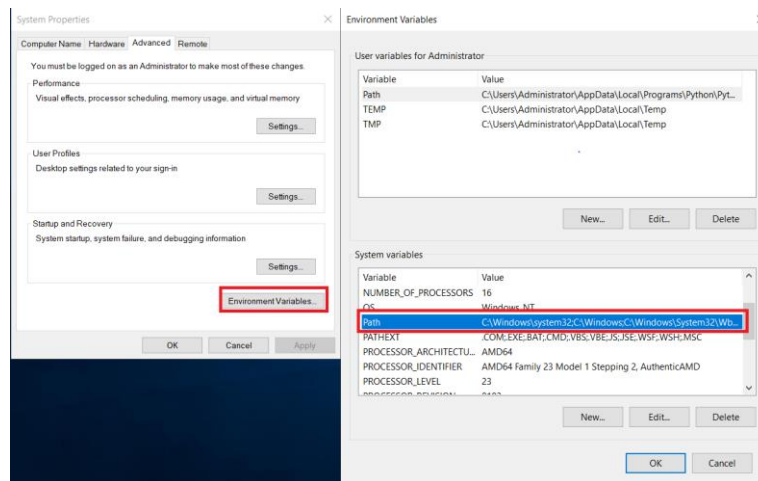

Figure 10.1 (Environment Variable)

3.2.2: Java Home Check
Make sure you see **"JAVA_HOME"** as shown in Fig then Click on **'OK'** and exit.
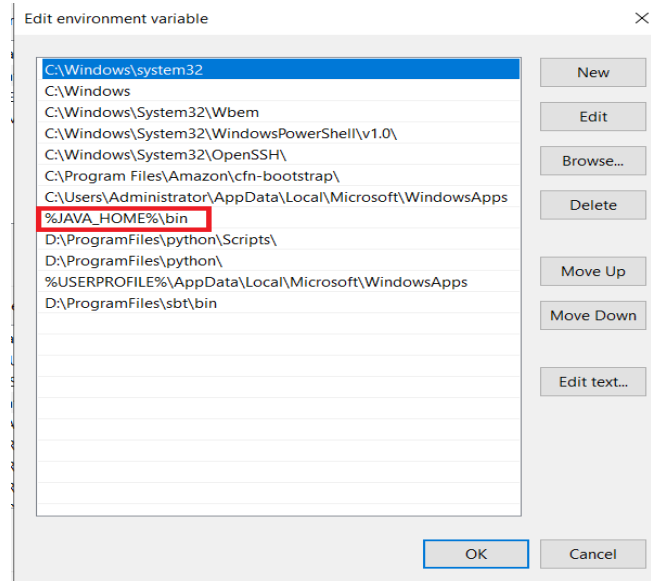
Figure 10.2 (Java Home path in Environment Variable)

3.2.3: Check Java and Python Version

- Open new Command Prompt with Administrator privileges.
  - Type '**Java -version'** and hit on enter. You should see "**1.8**" as the major version number.

Figure 11.1 (Java Version)

- Then type '**python -version'** and hit on enter, to check the python version. You should see "**3.7**" as the major version number.

Figure 11.2 (Python Version)

Please note if you do not see the correct Java major version and Python major version do not proceed with the installation

3.4 Verify Database Installation

STEP 3.4.1: PostgreSQL Login

- Click on the Start and search "**pgadmin**"
- Open pgAdmin and enter the below credentials to connect
  - General authentication password: **"postgres"**
  - Localhost PostgreSQL server authentication password **"postgres"**

STEP 3.4.2: Verify Database

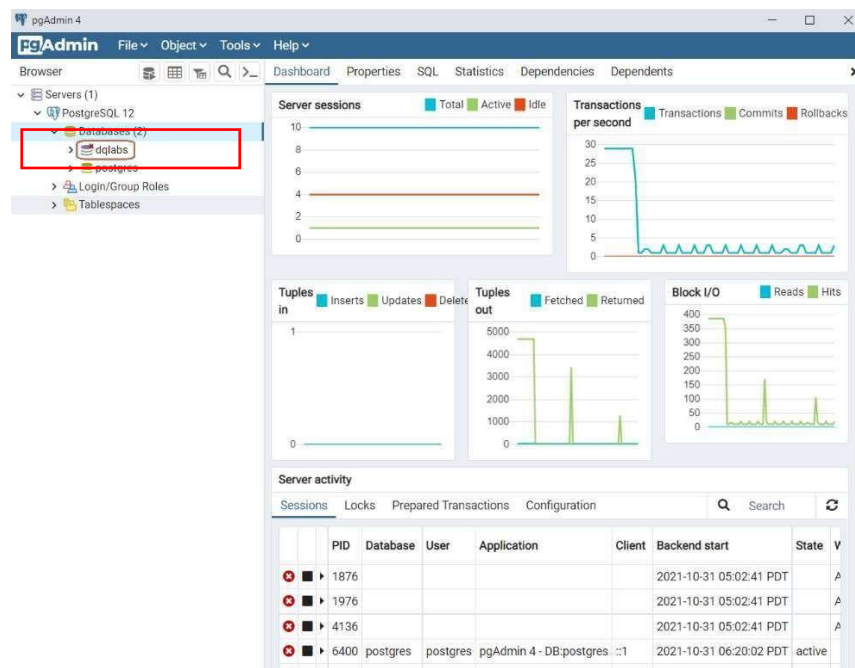- Verify if the database **'dqlabs'** is created and listed under the databases section as in below image.

Figure 12.2 (Verify Database)

- Close the pgAdmin application.

3.5 Server Deployment

Step 3.5.1:

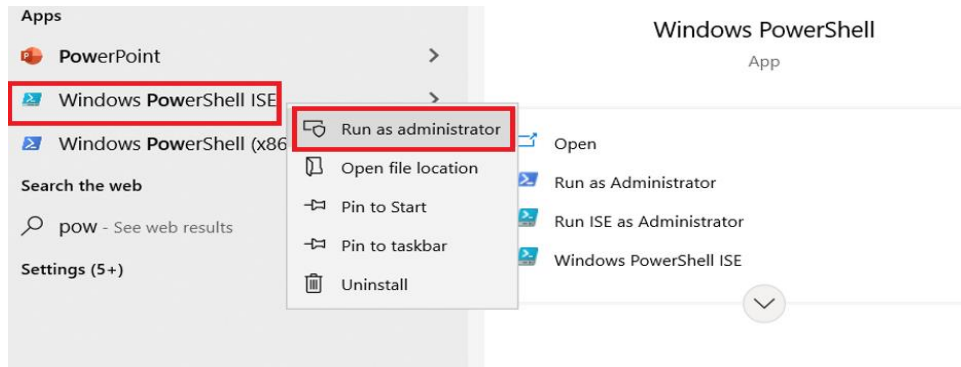Open "PowerShell ISE" as administrator (Press Win key and search for "PowerShell ISE")

Figure 13.1 (PowerShell with Administrator privilege)

Step 3.5.2:

- On the PowerShell ISE window, Click on **File** → To open a Power shell script file
- Locate the Server deployment installation script "DQLabs_Windows_Server_Deployment_V1.9" in the path **erwin Quest_DQlabs_Linux_Windows_Installation\Windows\Env-setup**
- Select the file "**DQLabs_Windows_Server_Deployment_V1.9**" from the above location
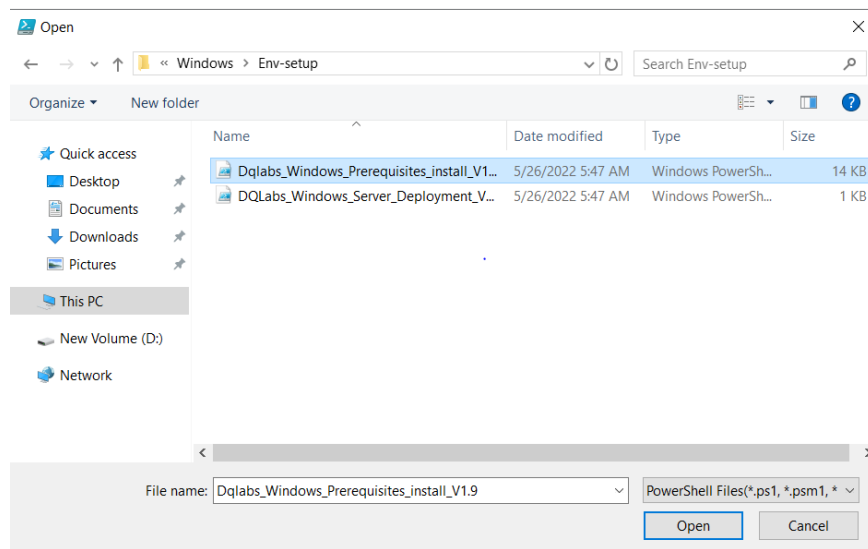

Figure 13.2 (file location)

Step 3.5.3:

- Enter the **DiskDrive name** where the Dqlabs application is to be installed (for example: **D**)
  Ensure you give the same drive name as given in step 3.1.5 of the "Prerequisites Installation" section
  Do not enter the ":" symbol after the entering the drive letter name

Figure 14 (DQLabs Server Installation)

Step 3.5.4:

- After the installation process is completed, the below screen will be displayed.

- Verify, if status code = 200 and status description = OK

Figure 14 (DQLabs Server Installation Verification)

If status description is not "OK" then follow the below steps:

Step 3.5.5:

- Start > Control Panel > Administrative Tool > Services   scroll to find **Dqlabs-server**. Right click on **Dqlabs-server** and click on '**Restart'**.

- Open the PowerShell terminal.

- Run the command **Invoke-WebRequest http://localhost:8000/api/setting/initialload/**

- Then you should see the **status code = 200** and **status description = OK**

Figure 14.1 (DQLBS server installation verification)

If you see the above correct status code and description as shown in Figure 14 (DQLabs Server Installation Verification), the installation is successful. Else do not proceed the next steps and contact Erwin Quest support team.

3.6 Verify Spark Job Server Installation

STEP 3.6.1: Verify Spark Job Server

- Open your Browser
- Type **localhost:8090** in the address bar and the **Spark Job Server UI** will open (as in image below)
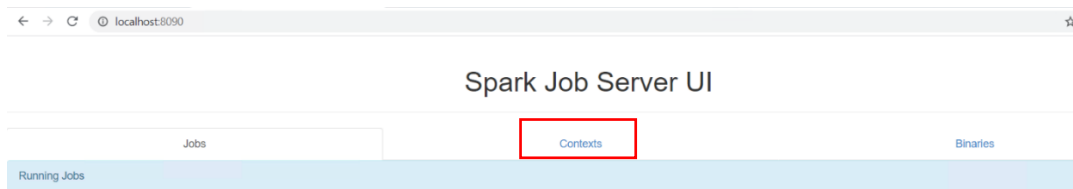- Click on "**Contexts**".

Figure 15.1 (Spark Job Server UI)

STEP 3.6.2: Verify the IP address of Spark Job Server

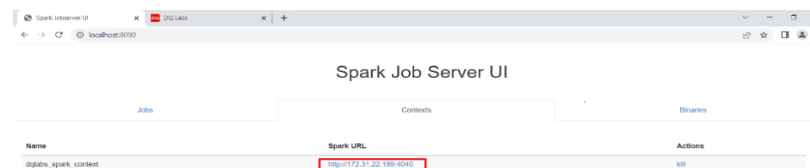- Private IP of the server should be available under the Spark URL column

Figure 15.2 (Spark Job Server IP Address)

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4 Completing the Application set up

4.1 Login to the Application

- o   Go to address bar of any supported browser
- o   Input the IP address/DNS name where the application was installed (for example: (https://Quest.erwinDQ.io/ or http://192.168.96) and hit enter
- o   The product will be launched on the browser and the login screen will be displayed
- o   Use the provided Admin Username and Password to login into the application in order to complete the set up
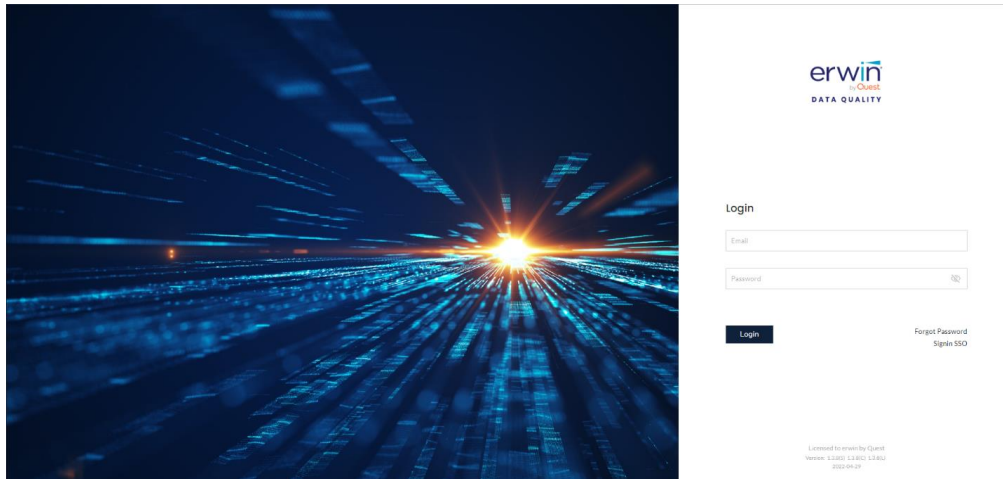

Figure 16 (DQLabs Login Screen)

Note: Reach out to your erwin by Quest contact to obtain the Admin login credentials (email/password) to login to the DQ application. Once the Admin logs in, they need to activate the instance using a valid license key (see next step).
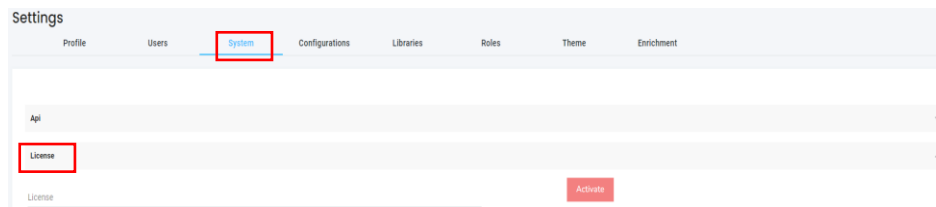
4.2 Activate License

- o   After logging in to the application, click on **settings** icon (left bottom corner) as show in below image
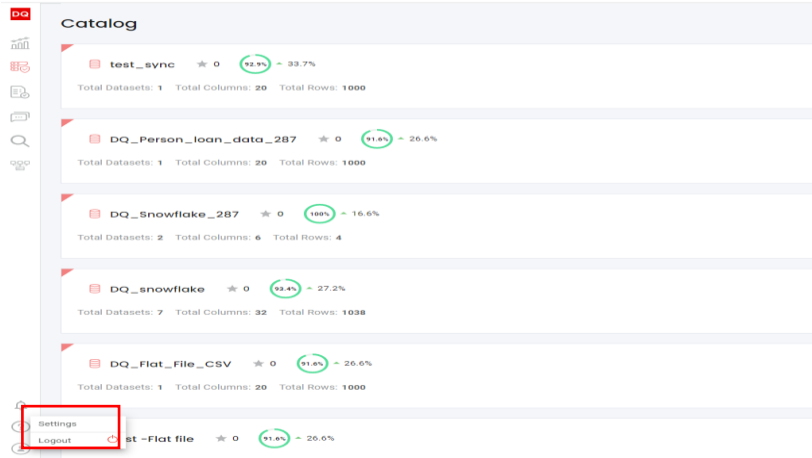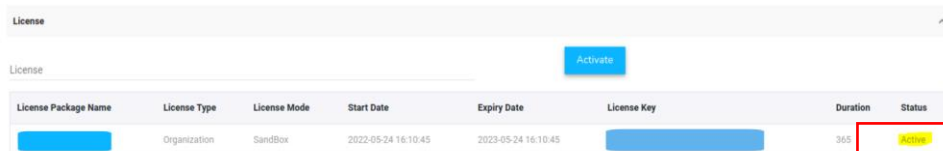
Figure 17.1 (License Activation)

- o Click on "System" tab and then click on "License" dropdown
- o Enter the license key {shared by the Erwin Quest License team} as show in the image below

Figure 17.2 (License Activation)

- o Click on "Activate" button
- o Please verify the License status to be "Active" (as shown in below ref. image), to ensure that the License is successfully activated

Figure 17.3 (License Activation)

Important Note**: If any errors are encountered during the installation process, the install script will exit with an appropriate error message. If you encounter any issues, reach out to the Erwin support or professional services team so we can provide the necessary assistance.

End of document