



# Navicat Report Viewer

Version 3.2 User Guide



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# Chapter 1 - Introduction

## About Navicat Report Viewer

**Navicat Report Viewer** is an easy-to-use tool. With its friendly Graphical User Interface (GUI), Navicat Report Viewer allows you to navigate reports designed by Navicat's Report Building Tool. You can access reports located at local or remote MySQL, Oracle, PostgreSQL, SQLite, SQL Server and MariaDB, no matter the server is running on a Linux, Unix, macOS or Windows platform. It also can connect cloud databases such as Amazon Redshift, Amazon RDS, Alibaba Cloud.

Navicat Report Viewer allows you to share reports with someone who does not have Navicat running on his computer but has Navicat Report Viewer installed. It highly increases the flexibility and convenience for viewing reports. Files in .raf & .rtm formats can be viewed. It also gives you the ability to print reports in pdf, html & archive formats.

Navicat Report Viewer is available on Windows platform only. For details, visit our website: <https://www.navicat.com>

### System Requirements

#### Windows

- Microsoft Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Server 2008, Server 2012, Server 2016

#### Supported On-Premises Databases

- MySQL 3.23 or later, Drizzle, OurDelta, Percona Server
- PostgreSQL 7.3 or later
- Oracle 8i or later
- SQLite 2 and 3
- SQL Server 2000 or later
- MariaDB 5.1 or later

#### Supported Cloud Databases

##### Amazon AWS

- Amazon Redshift
- Amazon Aurora for MySQL
- Amazon Aurora for PostgreSQL
- Amazon RDS for MySQL

- Amazon RDS for PostgreSQL
- Amazon RDS for Oracle
- Amazon RDS for SQL Server
- Amazon RDS for MariaDB

### Google Cloud

- Google Cloud SQL for MySQL
- Google Cloud SQL for PostgreSQL

### Oracle Cloud

- Oracle Database Cloud Service
- Oracle MySQL Cloud Service

### Microsoft Azure

- Microsoft Azure SQL Database
- Microsoft Azure Database for MySQL
- Microsoft Azure Database for PostgreSQL

### Alibaba Cloud

- Alibaba Cloud ApsaraDB for RDS (MySQL)
- Alibaba Cloud ApsaraDB for RDS (SQL Server)
- Alibaba Cloud ApsaraDB for RDS (PostgreSQL)

## Installation

We strongly suggest that you shut down any opened applications. This will help ensure a smooth installation.

**Note:** For user who has been trying our unregistered version, just simply key in the **Registration Key** (16 digit) on the pop up Registration screen.

### Installation for Download Version

1. Download Navicat Report Viewer Windows version.
2. Open the **.exe** file.
3. Click **Next** at the Welcome Screen.

4. Read the License Agreement. Accept it and click **Next**.
5. Accept the location of the program icons by clicking **Next**. If you wish to change the destination of the folder, click **Browse**.
6. Follow the remaining steps.
7. After installed, key in the **Registration Key** (16 digit) on the pop-up Registration screen and click **Activate** to online activate the key.

### Installation for CD Version

1. Load the Navicat Report Viewer CD Installation disk into the CD-ROM drive.
2. Open the **.exe** file.
3. Click **Next** at the Welcome Screen.
4. Read the License Agreement. Accept it and click **Next**.
5. Accept the location of the program icons by clicking **Next**. If you wish to change the destination of the folder, click **Browse**.
6. Follow the remaining steps.
7. After installed, key in the **Registration Key** (16 digit) on the pop-up Registration screen and click **Activate** to online activate the key.

### Migrate Navicat Report Viewer to new computer

All your connection settings are stored in **registry**. To view the registry record, in Windows, press WIN+R, then type "regedit". (The path should be "HKEY\_CURRENT\_USER/Software/PremiumSoft/ReportViewer".)

1. Backup your connection settings.
2. In Navicat Report Viewer, choose **Help** -> **Registration** and click **Deactivate** to online deactivate the key.
3. Uninstall Navicat Report Viewer from the existing computer.
4. Re-install Navicat Report Viewer in the new computer.
5. Restore your connection settings into **registry**.

All your report files (.rtm) are stored within connections **Report Location**. To look for the path, right-click the connection and choose **Edit Connection** -> **Advanced** -> **Report Location**.

### Upgrade Navicat

If you want to upgrade an installed copy of Navicat Report Viewer to the latest release, please choose **Help -> Check For Updates** to start the Updater. It will automatically check your installed version. If there is a new version, simply follow the steps in the Updater to upgrade your Navicat Report Viewer. It will replace your previous Navicat Report Viewer and your current settings will remain unchanged.

Or, you can submit your registered email address on the [Customer Center](#) to download the latest version installer.

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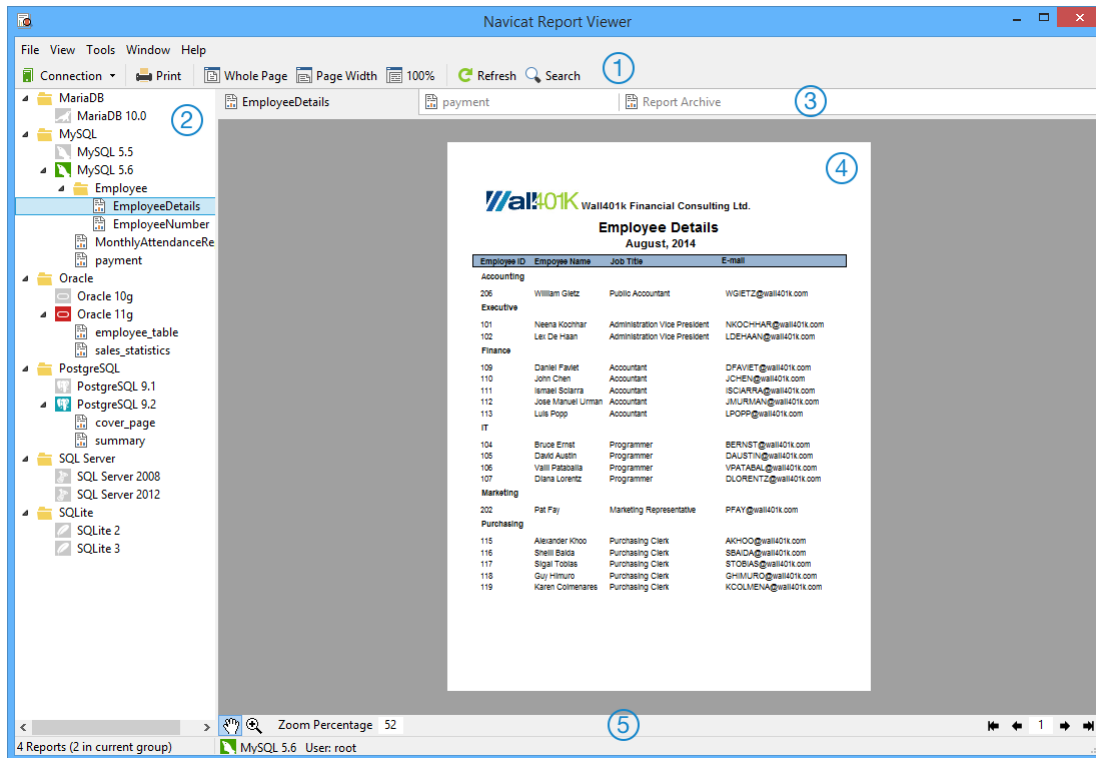
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# Chapter 2 - User Interface

## Main Window

The Main Window consists of toolbars and panes for you to work on connections and reports.



### 1 Main Toolbar

The Main Toolbar allows you to create connections and access basic features, such as print, search, etc. Click the **Refresh** button to achieve the most up-to-date data from the server.

### 2 Navigation Pane

The Navigation pane is the basic way to navigate with connections and reports. It employs tree structure which allows you to take action upon the connection and reports through their pop-up menus quickly and easily.

### 3 Tabs Bar

The Tab Bar allows you to switch among the opened reports. If you have multiple tabs open, you can use CTRL+TAB to easily switch to other tabs.

### 4 Report Pane

The Report pane displays the .raf and .rtm reports.

### 5 Bottom Toolbar

The Bottom Toolbar provides other controls that you can use to view the report.

**Hint:** - Zoom In; - Zoom Out.

## ⑥ Status Bar


The Status Bar displays the current window's status information.

# Chapter 3 - Connection

## About Connection

To start viewing reports in Navicat Report Viewer, you should first establish a connection or several connections using the Connection window. If you are new to the server or 'Net in general' and are not quite sure how things work, you may want to look at:

- [MySQL User Manual](#)
- [Oracle Database Documentation](#)
- [PostgreSQL User Manual](#)
- [SQLite User Manual](#)
- [SQL Server MSDN Library](#)
- [MariaDB Documentation](#)

To create a new connection, click  **Connection** and select your server type. Then, enter the necessary information in the Connection window.

After the connection being established, you need to place your report files (.rtm) to the [Report Location](#) before viewing and printing your reports.

**Note:** Navicat Report Viewer authorizes you to make connection to remote servers running on different platforms, i.e. Windows, macOS, Linux and UNIX.

## General Settings

To successfully establish a new connection to local/remote server - no matter via SSL, SSH or HTTP, set the database login information in the General tab. If your Internet Service Provider (ISP) does not provide direct access to its server, Secure Tunneling Protocol (SSH) / HTTP is another solution.

**Note:** The following options depend on the connection server type and sort in ascending order.

### Authentication

SQL Server Authentication	Use login records to validate the connection. Users must provide their server login: <b>User Name</b> and <b>Password</b> .
Windows Authentication	When a user connects through a Windows user account, SQL Server validates the account name and password using the Windows principal token in the operating system.

## Connection Name

Enter a friendly name to best describe your connection.

## Connection Type

Basic	In Basic mode, it connects to Oracle through the Oracle Call Interface (OCI). Enter the <b>Host Name/IP Address</b> and <b>Port</b> . Set the <b>Service Name/SID</b> which the user connects when making connection. Select the corresponding radio button.
TNS	In TNS mode, it connects to Oracle server using an alias entry from a tnsnames.ora file through the Oracle Call Interface (OCI). User needs to provide the <b>Net Service Name</b> .

OCI is an application programming interface that allows an application developer to use a third-generation language's native procedure or function calls to access the Oracle database server and control all phases of SQL statement execution. OCI is a library of standard database access and retrieval functions in the form of a dynamic-link library. See also: [OCI options](#)

## Database File

Specify the initial database file. If the HTTP Tunnel is enabled, you need to enter an absolute file path of the database file in your web server.

## Host Name/IP Address

A host name where the database is situated or the IP address of the server.

## Initial Database

Set the initial database which user connects when making connection.

## Password

Password for connecting to the database server.

## Port

A TCP/IP port for connecting to the database server.

## User Name

User name for connecting to the database server.

## SSL Settings

Secure Sockets Layer(SSL) is a protocol for transmitting private documents via the Internet. To get a secure connection, the first thing you need to do is to install OpenSSL Library and download Database Source.

**Note:** Available only for MySQL, PostgreSQL and MariaDB. Support from PostgreSQL 8.4 or later.

## MySQL and MariaDB Connections

To provide authentication details, enable **Use Authentication** and fill in the required information:

### Client Key

The SSL key file in PEM format to use for establishing a secure connection.

### Client Certificate

The SSL certificate file in PEM format to use for establishing a secure connection.

### CA Certificate

The path to a file in PEM format that contains a list of trusted SSL certificate authorities.

### Verify CA Certificate Name

Check the server's Common Name value in the certificate that the server sends to the client.

### Specified Cipher

A list of permissible ciphers to use for SSL encryption.

## PostgreSQL Connection

Choose the **SSL Mode**:

require	Only try an SSL connection.
verify-ca	Only try an SSL connection, and verify that the server certificate is issued by a trusted CA.
verify-full	Only try an SSL connection, verify that the server certificate is issued by a trusted CA and that the server hostname matches that in the certificate.

To provide authentication details, enable **Use Authentication** and fill in the required information:

### Client Key

The path of the client private key.

### Client Certificate

The path of the client certificate.

### CA Certificate

The path of the trusted certificate authorities.

### Certificate Revocation List



The file path of the SSL certificate revocation list (CRL).

## SSH Settings

**Secure SHell (SSH)** is a program to log in into another computer over a network, execute commands on a remote server, and move files from one machine to another. It provides strong authentication and secure encrypted communications between two hosts, known as **SSH Port Forwarding (Tunneling)**, over an insecure network. Typically, it is employed as an encrypted version of Telnet.

In a Telnet session, all communications, including username and password, are transmitted in plain-text, allowing anyone to listen-in on your session and steal passwords and other information. Such sessions are also susceptible to session hijacking, where a malicious user takes over your session once you have authenticated. SSH serves to prevent such vulnerabilities and allows you to access a remote server's shell without compromising security.

**Note:** Available only for MySQL, Oracle, PostgreSQL, SQL Server and MariaDB.

Please make sure that the parameter - "AllowTcpForwarding" in the Linux server must be set to value "yes", otherwise, the SSH port forwarding will be disabled. To look for the path: /etc/ssh/sshd\_config. By default, the SSH port forwarding should be enabled. Please double check the value settings.

Even the server support SSH tunnel, however, if the port forwarding being disabled, Navicat Report Viewer cannot connect via SSH Port 22.

### Host Name/IP Address

A host where SSH server is activated.

**Note:** The host name in the General tab should be set relatively to the SSH server which provided by your database hosting company.

### Port

A port where SSH server is activated, by default it is 22.

### User Name

A user on SSH server machine. (It is not a user of database server.)

### Authentication Method

Password	Provide the SSH server user <b>Password</b> .
Public Key	<b>Private Key</b> It is used together with your public key. The private key should be readable only by you. <b>Passphrase</b> A passphrase is exactly like a password, except that it applies to the keys you are generating and not an account.

**Note:** HTTP Tunnel and SSH Tunnel cannot be function simultaneously. The SSH Tunnel is disabled when you select the HTTP Tunnel and vice versa.

## HTTP Settings

HTTP Tunneling is a method for connecting to a server that uses the same protocol (http://) and the same port (port 80) as a web server does. It is used while your ISPs do not allow direct connections, but allows establishing HTTP connections.

**Note:** Available only for MySQL, PostgreSQL, SQLite and MariaDB.

### Uploading the Tunneling Script

To use this connection method, first thing you need to do is to upload the tunneling script to the web server where your server is located.

**Note:** `ntunnel_mysql.php` (for both MySQL and MariaDB), `ntunnel_pgsql.php` or `ntunnel_sqlite.php` is available in the Navicat Report Viewer installation folder.

### Setting up HTTP Tunnel

The following instruction guides you through the process of configuring a HTTP connection.

1. Select the HTTP tab and enable **Use HTTP Tunnel**.
2. Enter URL of the tunneling script  
e.g. `http://www.navicat.com/ntunnel_mysql.php`
3. If your server installed a Web Application Firewall, you can check the **Encode outgoing query with base64** option.
4. If the tunneling script is hosted in a password protected server or you have to access internet over a proxy server, you can provide the required authentication details in **Authentication** or **Proxy** tab.

**Note:** HTTP Tunnel and SSH Tunnel cannot be function simultaneously. The SSH Tunnel is disabled when you select the HTTP Tunnel and vice versa.

## Advanced Settings

**Note:** The following options depend on the connection server type and sort in ascending order.

### Attached Databases

Click **Attach Database** to attach a database to the connection. Choose the **Database File** path of the database and enter the **Database Name**. If the database file is encrypted, check the **Encrypted** option and provide the **Password**.

Select a attached database from the list and click **Detach Database** to detach it.

**Auto Connect**

Open the connection at application startup automatically.

**Encoding**

Choose a codepage to communicate with MySQL Server while MySQL character set not being employed.

**Encrypted**

Enable this option and provide **Password** when connecting to an encrypted SQLite database.

**Keepalive Interval (sec)**

Keep the connection with the server alive by pinging it. You can set the period between pings in the edit box.

**OS Authentication**

Use OS user login credentials to authenticate database users.

**Report Location**

Choose the file path of your report files. You are allowed to change any locations as you like.

**Role**

Indicate that the database user is connecting with either the Default, SYSOPER or SYSDBA system privilege.

**Use Compression**

Use compression protocol. It is used if both client and server support zlib compression, and the client requests compression.

**Use Encryption**

Use encryption for SQL Server connection.

**Use Named Pipe, Socket**

Use socket file for localhost connection.

# Chapter 4 - Report Handling


## Open Report with Server Connection

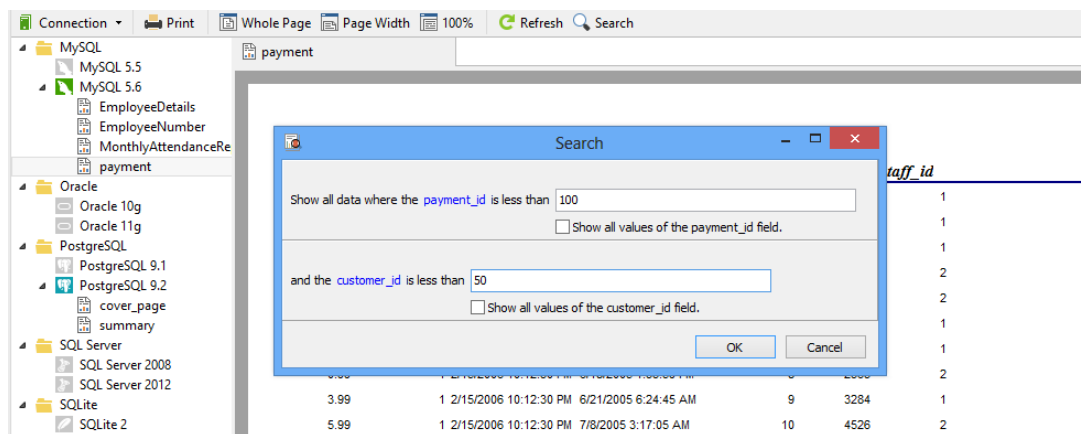
After created a connection and placed report files in [Report Location](#), you can open the reports.

1. Open a connection in the Navigation pane.
2. Double-click the report to open.

## Open Report with Search Parameter


If you have been provided with a [search report](#), you are allowed to enter the parameter(s) to limit your search results that meet your criteria. In order words, you can determine the results of your report output.

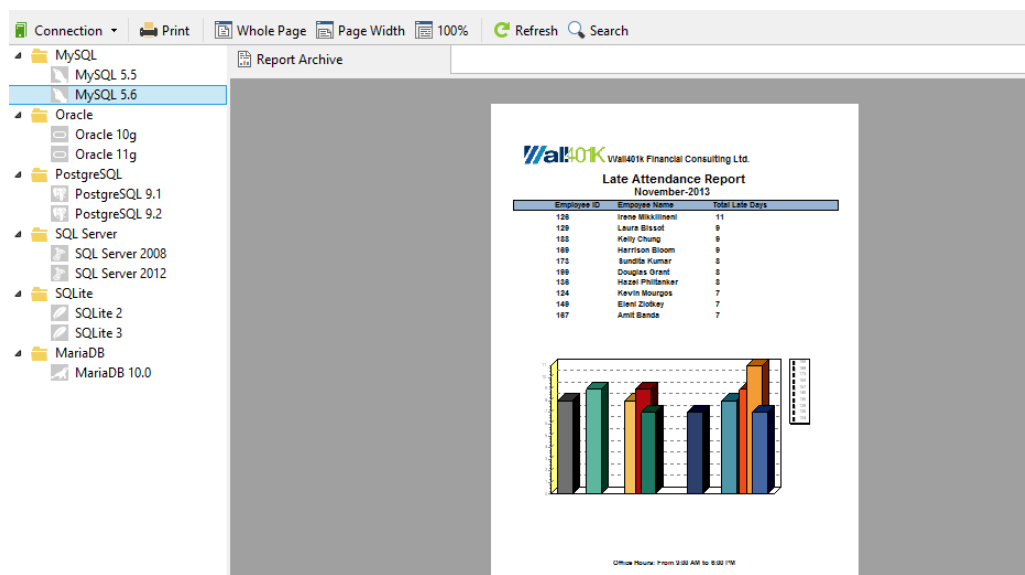
Just simple click  **Search** from the toolbar and enter your search value(s).




## Open Archived Report

There is not necessary to establish server connection to view your reports if you are provided with archive files (.raf). However, please bear in mind that all data stores in the archive files will not contain the most up-to-date data.

Just simple select **File ->  Open Report** from the menu bar and browse the archive file.



# Print Report

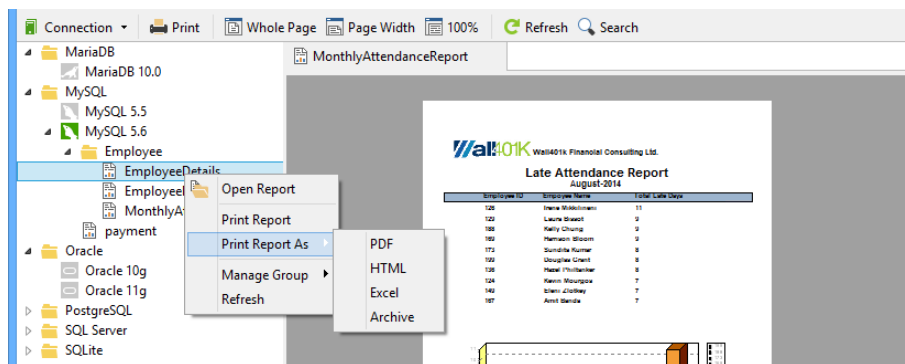
You can print a report to a printer, simply click the  **Print** button from the toolbar.

## Print Report to File

Navicat Report Viewer not only allows you to print your reports to printer but also many kind of file formats, i.e. PDF, HTML, Excel and more.


## Print Report using Pop-up Menu

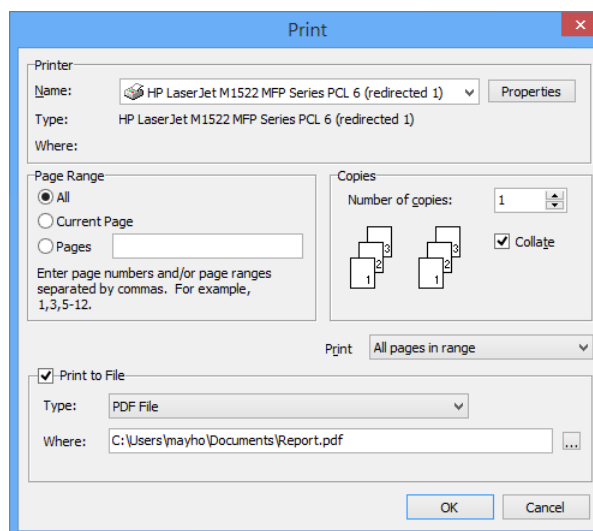
Right-click a report in the Navigation pane and choose **Print Report As -> PDF/HTML/Excel/Archive**.



## Print Reports to Other File Formats

The **Print to File** under the **Print** dialog will be available if the user, who created the reports, enabled [AllowPrintToFile](#) option in Navicat's Report Building Tool.

1. Right-click a report in the Navigation pane and choose **Print Report** or just simply click the  **Print** button from the toolbar.
2. Choose the file type and location in the **Print** dialog.



# Chapter 5 - Other Advanced Tools

## Virtual Grouping

Virtual Group aims to provide a platform for logical grouping objects by categories, so that all objects are effectively preserved. It can be applied on connections and reports.

If you want to hide the group structure, select **View -> Flatten Connection** from the menu bar.

### Create a new group

1. In the main window, right-click on the Navigation pane or a report and select **Manage Group -> New Group**.
2. Enter a name for the new group.

### Move a connection/report to a group

1. In the main window, right-click a connection/report and select **Manage Group -> Move To**.
2. Select an existing group.

### Move a connection/report back to the top-level

1. In the main window, right-click a connection/report and select **Manage Group -> Exclude From Group**.

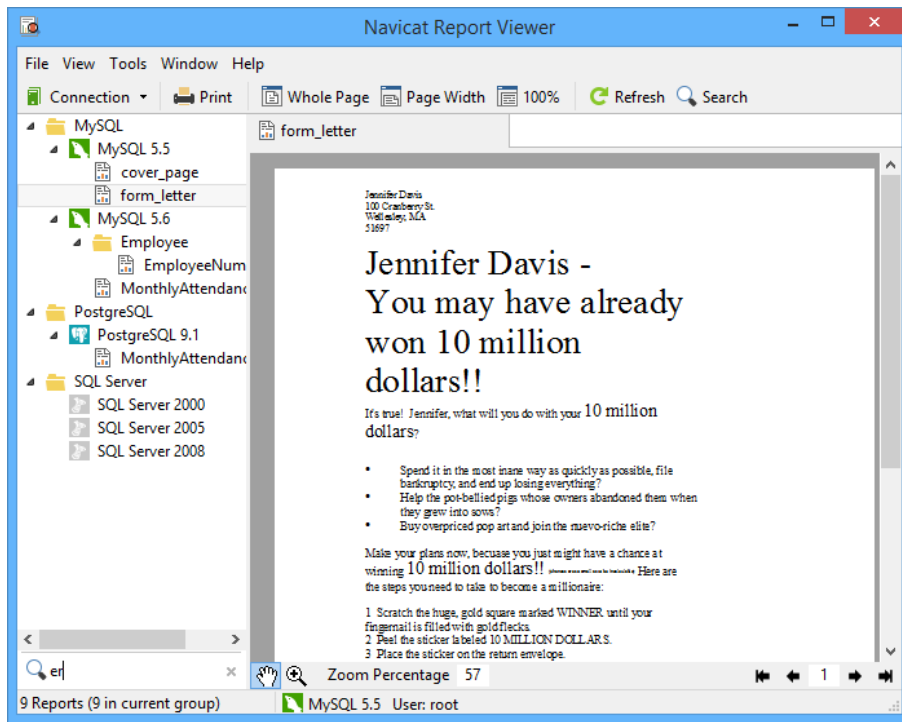
**Hint:** You can also use the drag and drop method to move connections or reports.

## Search Filter

Navicat Report Viewer provides search filters for searching connections and reports in the Navigation pane.

In the Navigation pane, click on the pane to focus and enter a search string directly. If connections have opened, the filter will also apply to their reports.

You can remove the filter by deleting the search string.



# Chapter 6 - Configurations

## Options Settings

To set additional settings, select **Tools** -> **Options** from the menu bar.

### Miscellaneous

#### Files Location

The file records how connections and reports are categorized stores in the **profiles** directory and all the [log files](#) store in the **logs** directory.

### Activation & Updater

#### Check for updates on startup

Check this option to allow Navicat Report Viewer checks for new version when it starts.

### Proxy

#### Use Proxy

Check this option to use proxy for the activation process. Choose the **Proxy Type** and enter **Host**, **Port**, **User Name** and **Password**.

### OCI

**Hint:** Restart Navicat Report Viewer to take effect.

#### OCI library (oci.dll)

Choose the **Oracle Client** / **Oracle Instant Client** folder that includes the OCI library (oci.dll) for [Basic/TNS](#) connection. It has already included in Navicat Report Viewer installation folder. You can locate it directly.

**Oracle Instant Client** is the simplest way to deploy a full Oracle Client application built with OCI, OCCI, JDBC-OCI, or ODBC drivers. It provides the necessary Oracle Client libraries in a small set of files. You can also download Oracle Client / Oracle Instant Client through -

#### Oracle Client

#### Oracle Instant Client

Download the appropriate Instant Client packages for your platform and the CPU. All installations REQUIRE the Basic or Basic Lite package. Unzip the packages and set the path points to it.



# Chapter 7 - Trace Logs

## Log Files

Navicat Report Viewer provides log files to keep track on the actions have been performed in Navicat Report Viewer and they are located in the **logs** directory, e.g. C:\Users\Guest\Documents\Navicat Report Viewer\logs\. You are allowed to change the log files location under [Options](#).

### **HttpDump.log**

Store information which response from your HTTP Server.

### **LogHistory.txt**

Store all SQL statements of all the operations executed over databases and database objects in Navicat Report Viewer.

**Note:** This log will be overwritten while Navicat Report Viewer is being restarted.