

Creating Excel Reports that use Uptime Infrastructure Monitor Data

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Overview

While Uptime Infrastructure Monitor has a powerful reporting function, you may want to generate reports that use a specific set of data and/or put that data into a custom report format. Using Microsoft Excel, you can take data from the up.time DataStore and use that data to create a report that specifically suits your requirements.

Before You Begin

If you have not already done so, install the MySQL ODBC driver and create a data source to access the up.time DataStore. This article assumes you have performed these steps. For more information, see the [Connecting to the up.time DataStore via ODBC](#) Knowledge Base article.

Retrieving Uptime Infrastructure Monitor Data in Excel 2010: Creating a New Database Connection

Follow these steps to establish the Uptime Infrastructure Monitor DataSource as an external data source for use in Excel 2010:

1. Start Microsoft Excel 2010.
2. Open the Data Connection Wizard: click on **Data** on the menu bar, click on **From Other Sources**, then click **From Data Connection Wizard**.
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The Data Connection Wizard appears:
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3. Select **ODBC DSN** as the type of data source you want to use to make a connection, then click **Next**.
4. In the next Wizard step, select the Uptime Infrastructure Monitor ODBC data source, then click **Next**.
The name of the data source in the list is the name you gave the up.time DataStore when you [created its profile in the ODBC Data Source Administrator Control Panel](#).
5. In the next step, select a database and specific table from the data source:
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The database name you select is the name you gave to the up.time DataStore when you [created its profile in the ODBC Data Source Administrator Control Panel](#). The database table you select depends on the type of Uptime Infrastructure Monitor data you want to import into Excel (in this example, we are importing aggregate performance data).
6. In the final Wizard step, remember the *Friendly Name* assigned to this connection profile, then click **Finish** to save the database connection profile.
Note: Now that you have created an Office database connection (.odc) file for the Uptime Infrastructure Monitor database and specified table, you will be able to use this existing connection to perform new database queries in future Excel sessions (on the **Data** tab, in the **Get External Data** group, click **Existing Connections**, then select the connection by clicking the Friendly Name). When you begin to work with data using an existing connection, Excel will prompt you with the **Import Data** dialog box, which you can use to modify your database query.
When you create a connection to the Uptime Infrastructure Monitor database for the first time, you will always be prompted with the **Import Data** dialog box; this dialog box is described in the next section.

Retrieving Uptime Infrastructure Monitor Data in Excel 2010: Querying an Established Database Connection

Follow these steps to import data from an Uptime Infrastructure Monitor DataSource into Excel 2010:

1. Whenever you finish creating a connection profile to the up.time DataStore, or open an existing connection profile, the **Import Data** dialog is displayed:
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Click **Properties**.

- The Connection Properties dialog is displayed. Click the **Definition** tab:
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- In the **Command text** box, enter the SQL statement that retrieves the data you wish to use in Excel. For example:

```
SELECT e.display_name,
min(p.cpu_sys+p.cpu_usr+p.cpu_wio),
max(p.cpu_sys+p.cpu_usr+p.cpu_wio),
avg(p.cpu_sys+p.cpu_usr+p.cpu_wio),
min(p.free_mem), max(p.free_mem),
avg(p.free_mem)
FROM performance_aggregate p, performance_sample s, entity e
WHERE p.sample_id = s.id
AND s.uptimehost_id = e.entity_id
AND s.sample_time > DATE_SUB(now(), INTERVAL 7 DAY)
AND s.sample_time < now()
GROUP BY e.display_name
ORDER BY s.sample_time;
```

This sample query retrieves CPU- and memory-related data that was collected by Uptime Infrastructure Monitor over the last seven days.

- Click **OK**.
- If you are prompted with the ODBC 3.51 Connector dialog box, ensure your user and password information is correct, then click **OK**.
Once your queried data is in an Excel sheet, you can work with it as required. The example below is an inserted table displaying CPU usage highs, lows and averages for all monitored systems over the last seven days.
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Retrieving Uptime Infrastructure Monitor Data in Excel 2007: Creating a New Database Connection

Follow these steps to establish the Uptime Infrastructure Monitor DataSource as an external data source for use in Excel 2007:

- Start Microsoft Excel 2007.
- Open the Data Connection Wizard: on the **Data** tab, in the **Get External Data** group, click **From Other Sources**, then click **From Data Connection Wizard**.

The Data Connection Wizard appears:

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- Select **ODBC DSN** as the type of data source you want to use to make a connection, then click **Next**.
- In the next Wizard step, select the Uptime Infrastructure Monitor ODBC data source, then click **Next**.

The name of the data source in the list is the name you gave the up.time DataStore when you [created its profile in the ODBC Data Source Administrator Control Panel](#).

- In the next step, select a database and specific table from the data source:
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The database name you select is the name you gave to the up.time DataStore when you [created its profile in the ODBC Data Source Administrator Control Panel](#). The database table you select depends on the type of Uptime Infrastructure Monitor data you want to import into Excel (in this example, we are importing aggregate performance data).

- In the final Wizard step, remember the *Friendly Name* assigned to this connection profile, then click **Finish** to save the database connection profile.

Note: Now that you have created an Office database connection (.odc) file for the Uptime Infrastructure Monitor database and specified table, you will be able to use this existing connection to perform new database queries in future Excel sessions (on the **Data** tab, in the **Get External Data** group, click **Existing Connections**, then select the connection by clicking the Friendly Name). When you begin to work with data using an existing connection, Excel will prompt you with the **Import Data** dialog box, which you can use to modify your database query.

When you create a connection to the Uptime Infrastructure Monitor database for the first time, you will always be prompted with the **Import Data** dialog box; this dialog box is described in the next section.

Retrieving Uptime Infrastructure Monitor Data in Excel 2007: Querying an Established Database Connection

Follow these steps to import data from an Uptime Infrastructure Monitor DataSource into Excel 2007:

- Whenever you finish creating a connection profile to the up.time DataStore, or open an existing connection profile, the **Import Data** dialog is displayed:[blocked URL](#)
Click **Properties**.

2. The Connection Properties dialog is displayed. Click the **Definition** tab:
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3. In the **Command text** box, enter the SQL statement that retrieves the data you wish to use in Excel. For example:

```
SELECT e.display_name,
min(p.cpu_sys+p.cpu_usr+p.cpu_wio),
max(p.cpu_sys+p.cpu_usr+p.cpu_wio),
avg(p.cpu_sys+p.cpu_usr+p.cpu_wio),
min(p.free_mem), max(p.free_mem),
avg(p.free_mem)
FROM performance_aggregate p, performance_sample s, entity e
WHERE p.sample_id = s.id
AND s.uptimehost_id = e.entity_id AND s.sample_time > DATE_SUB(now(), INTERVAL 7 DAY)
AND s.sample_time < now()
GROUP BY e.display_name
ORDER BY s.sample_time;
```

This sample query retrieves CPU- and memory-related data that was collected by Uptime Infrastructure Monitor over the last seven days.

4. Click **OK**.
5. If you are prompted with the ODBC 3.51 Connector dialog box, ensure your user and password information is correct, then click **OK**.

Once your queried data is in an Excel sheet, you can work with it as required. The example below is an inserted table displaying CPU usage highs, lows and averages for all monitored systems over the last seven days.

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Retrieving Uptime Infrastructure Monitor Data in Excel 2003

Follow these steps to establish the Uptime Infrastructure Monitor DataSource as an external data source for use in Excel 2003:

1. Start Microsoft Office Excel 2003.
2. On the **Data** menu, click **Import External Data**, then click **New Database Query**.
3. The **Choose Data Source** dialog box is displayed:

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On the **Databases** tab, select the Uptime Infrastructure Monitor ODBC data source.

The name of the data source in the list is the name you gave the up.time DataStore when you created its profile in the ODBC Data Source Administrator Control Panel (in this example, the database is simply named "uptime").

Click **OK**.

4. The Query Wizard appears:
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Choose the columns (and tables) to include in your query, then click **Next**.

5. For the **Filter Data** Wizard step, if desired, provide specific rows to include in your query, then click **Next**.
6. For the **Sort Order** Wizard step, if desired, indicate how the data will be sorted, then click **Next**.
7. On the final Wizard step, opt to **View data or edit query in Microsoft Query**, then click **Finish**.
8. The **Import Data** dialog box is displayed:

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Click **Edit Query** to open Microsoft Query and preview the retrieved data:

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9. Click the **View** menu, then click **SQL** to display the query. The columns you selected in the Query Wizard (step 4) will be displayed as the SQL statement:
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10. Edit the SQL statement to refine which of the data from the selected columns will be used in the Excel sheet, then click **OK** to return to Microsoft Query.
11. Click **File**, then click **Return Data to Microsoft Office Excel**.

Once your queried data is in an Excel sheet, you can work with it as required.