
Vertica Knowledge Base Article

Vertica QuickStart for IBM Cognos Business Intelligence

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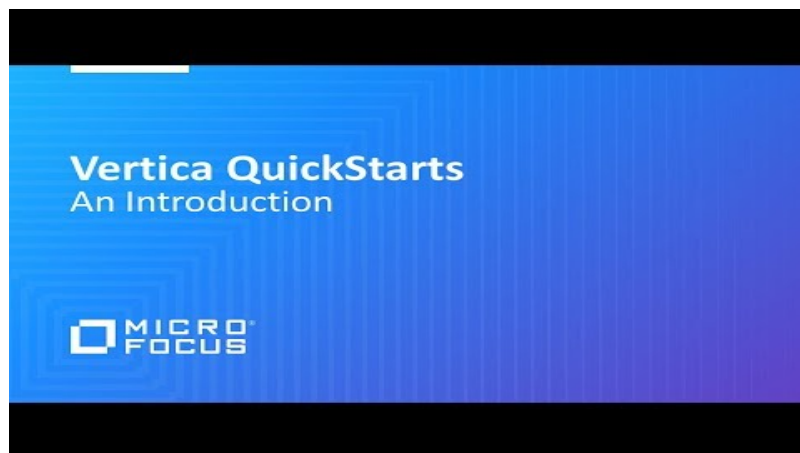
Vertica QuickStart for IBM Cognos Analytics

The Vertica QuickStart for IBM Cognos Analytics is a set of sample reports created using Cognos Analytics and powered by the Vertica Analytic Database. The dashboards present sample retail data for analysis. The QuickStart shows how retail companies could use Vertica and Cognos Analytics to quickly explore, visualize, and gain insight into their data stored in Vertica.

About the Vertica QuickStarts

The QuickStarts are free, sample applications created using front-end products from Vertica technology partners.

For an overview, watch this short [video](#).



Note The Vertica QuickStarts are freely available for demonstration and educational purposes. They are not governed by any license or support agreements and are not suitable for deployment in production environments.

About IBM Cognos Analytics

Cognos Analytics is a web-based solution for building applications that perform reporting and analysis. The components of Cognos Business Intelligence are:

- Web Server: Allows web-based reporting.
- BI Server: Includes Content Manager, Application Tier components, and gateway.
- Framework Manager: Includes additional components for creating, modeling, and managing metadata for reporting and analysis.

For details, see the [IBM Cognos Analytics documentation](#).

Requirements

The Vertica QuickStart for Cognos Analytics requires a Vertica database server with a default installation of the VMart example database, the Vertica JDBC driver, Cognos Analytics, and the QuickStart app.

We have tested the Quickstart with Cognos Analytics 11.0.9.0 and Vertica 9.0.1-0.

To determine if your system is compatible with Cognos 11, see [Cognos 11 Supported Software Environments](#).

Install the Software

To install the software that is required for running the QuickStart, follow these steps:

1. [Install the Vertica Database Server](#)
2. [Install the VMart Example Database](#)
3. [Install IBM Cognos Analytics](#)
4. [Install the JDBC Client Driver](#)

Install the Vertica Database Server

If you do not have Vertica, you can download the Community Edition free of charge:

1. Navigate to my.vertica.com.
2. Log in or click **Register Now** to create an account.
3. Follow the on-screen instructions to download and install the Vertica Community Edition.

Install the VMart Example Database

The Vertica QuickStart for Cognos assumes a default installation of the Vertica VMart example database.

To install VMart, follow the instructions in the Vertica documentation:

- [Introducing the VMart Example Database](#)
- [Installing and Connecting to the VMart Example Database](#)

For details, see [VMart Example Database Schema, Tables, and Scripts](#).

Install IBM Cognos Analytics

If you do not already have Cognos Analytics, you can install a free trial version as follows:

1. Navigate to [IBM Cognos Analytics](#).
2. Click **Free trial**.
3. Follow the on-screen instructions to install IBM Cognos Analytics.

Note Install the components described in [About IBM Cognos Analytics](#). Framework Manager is required only if you want to modify the Vertica QuickStart example

application.

Install the JDBC Client Driver

IBM Cognos Analytics uses the Vertica JDBC driver to connect to your Vertica database. To install the JDBC driver:

1. Navigate to the [Vertica Client Drivers](#) page.
2. Download the JDBC driver for your platform and version of Vertica.

Note Vertica drivers are forward compatible. You can use an older driver version to connect to a newer server version. For details about client driver and server compatibility, see the [Vertica documentation](#).

3. Extract the contents of the compressed file.
4. Place the JDBC .jar file in the directory that contains the external Java libraries for Cognos. The default location is:

```
Cognos_Installation_Directory\ibm\cognos\analytics\drivers
```

Note If you upgrade your Vertica client, you must repeat these steps to replace the .jar file.

Deploy the QuickStart

The QuickStart example application is available as an export file for you to import into Cognos. To deploy the QuickStart, follow these steps:

1. [Download the QuickStart](#)
2. [Import the QuickStart Package](#)
3. [Connect to the VMart Data Source](#)
4. [Open the QuickStart in Cognos Analytics](#)

Download the QuickStart

1. Navigate to my.vertica.com/quickstart.
2. Select **Vertica QuickStart for IBM Cognos**.
3. Log in or create an account.
4. Click **Download**.

Import the QuickStart Package

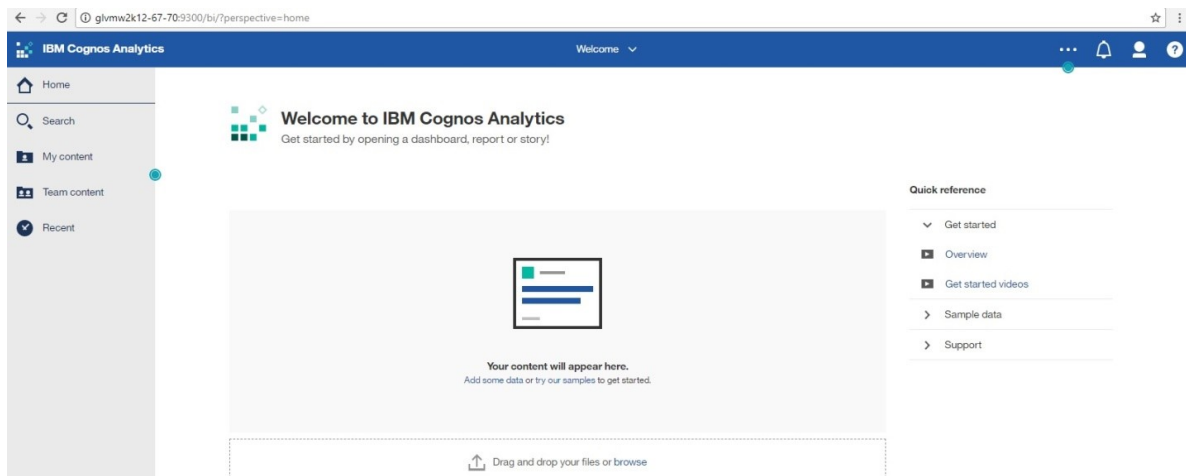
Before you can run the QuickStart, you must import it into Cognos. Follow these steps:

1. Navigate to the folder where you downloaded the QuickStart compressed file.
2. Copy the file to the Cognos deployment directory:

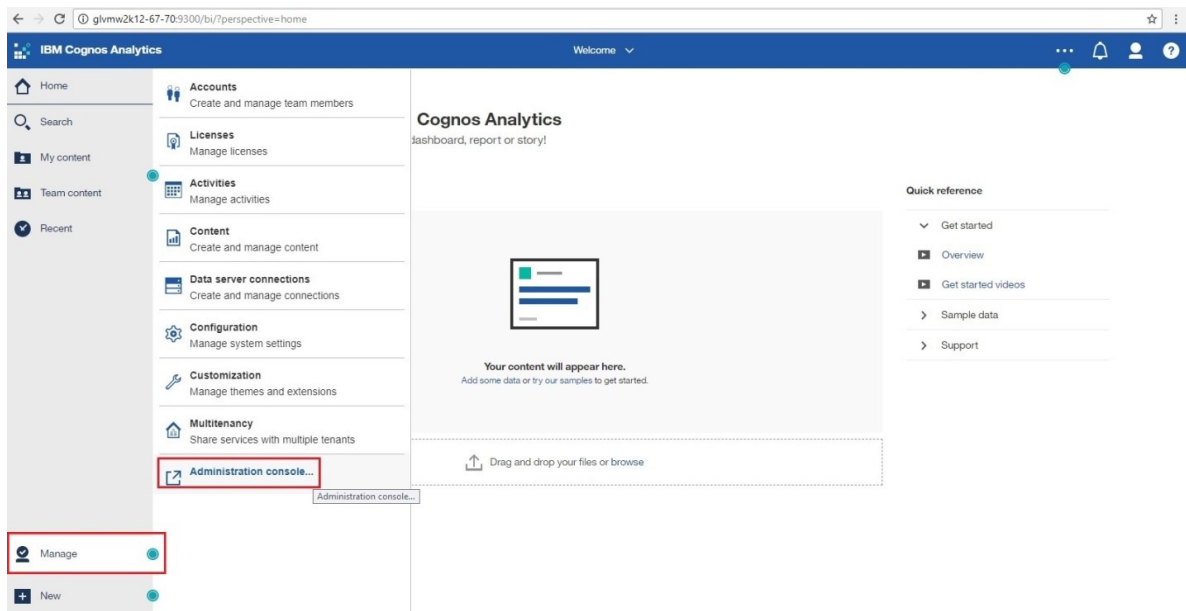
```
<Cognos_Installation_Directory>\deployment\VMartQS1022.zip
```

3. Expand the file.
4. In your web browser, open the IBM Cognos Analytics portal. For example:

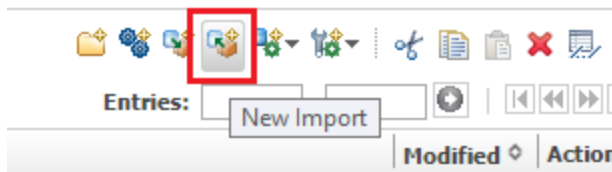
```
http://<my_cognos_server>/Cognos_URL/
```



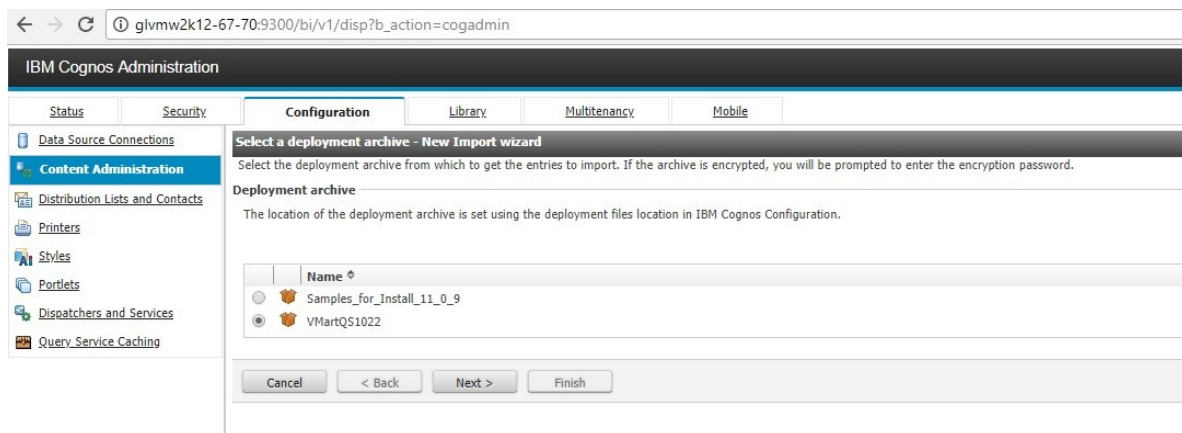
5. Click **Manage**, then **Administration Console**.



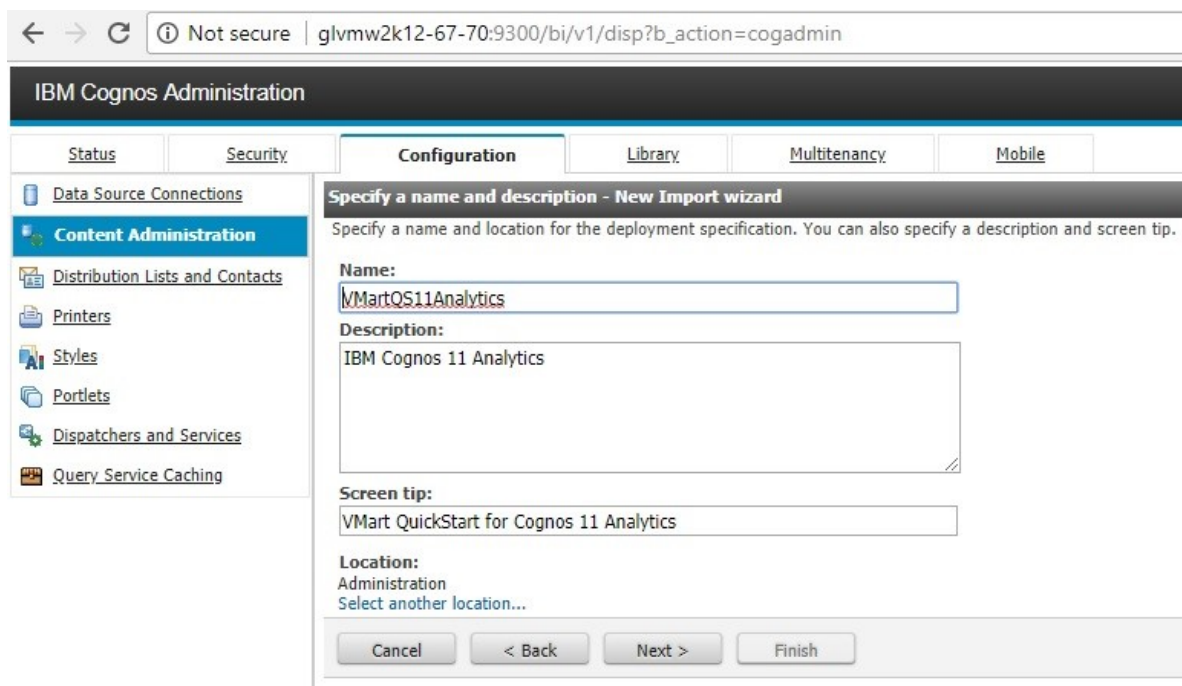
6. In Administration console, navigate to Configuration > Content Administration, then click **New Import**.



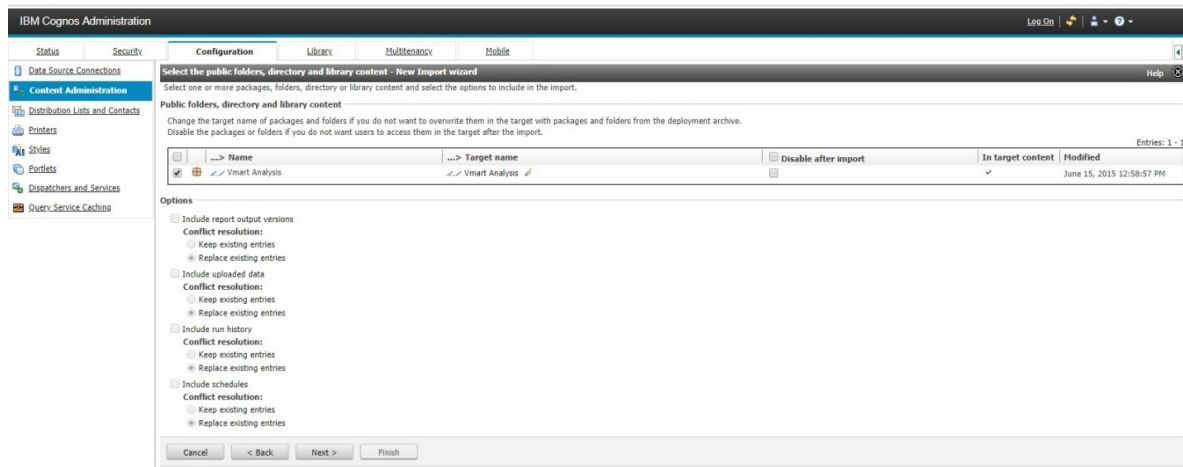
7. Select **VMartQS1022** and click **Next**.



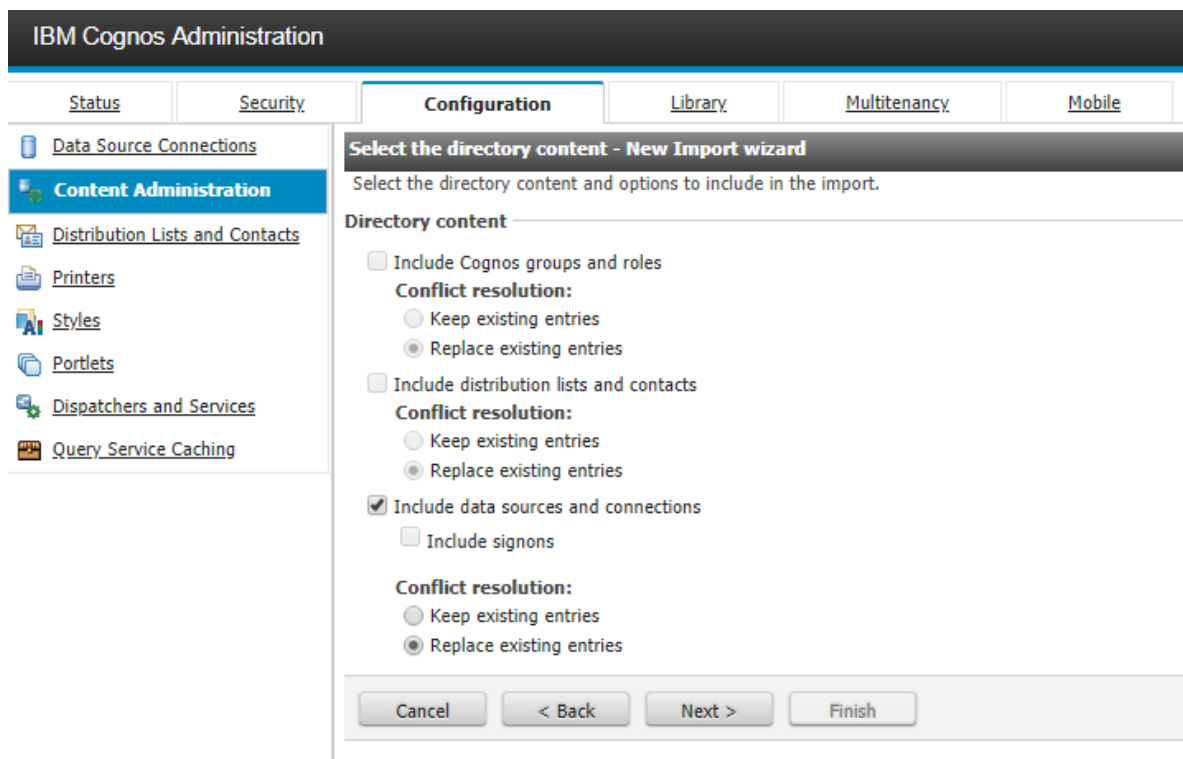
8. Specify the name and description for the New Import Wizard, then click **Next**.



9. Select the public folders, directory, and library content and click **Next**.



10. Select the directory content, then click Next.



11. Specify the general options as shown, and click Next.

IBM Cognos Administration

Navigation tabs: Status, Security, **Configuration**, Library, Multitenancy, Mobile

Left sidebar: Data Source Connections, **Content Administration**, Distribution Lists and Contacts, Printers, Styles, Portlets, Dispatchers and Services, Query Service Caching

Specify the general options - New Import wizard

Specify the options applicable to all the entries in the import. You can also select the options applicable to the deployment record.

Access permissions

- ☒ Include access permissions
 - ☐ Apply to new entries only
 - ☒ Apply to new and existing entries

External namespaces

- ☐ Include references to external namespaces
- ☒ Do not include references to external namespaces

Entry ownership

Set the owner to:

- ☒ The owner from the source
- ☐ The user performing the import

Apply to:

- ☐ New entries only
- ☒ New and existing entries

Deployment record

Recording level:
Select the level of detail to save in the deployment record.

Basic ▼

Buttons: Cancel, < Back, Next >, Finish

12. Review the summary and click **Next**.

IBM Cognos Administration

Navigation tabs: Status, Security, **Configuration**, Library, Multitenancy, Mobile

Left sidebar: Data Source Connections, **Content Administration**, Distribution Lists and Contacts, Printers, Styles, Portlets, Dispatchers and Services, Query Service Caching

Review the summary - New Import wizard

The Import wizard is ready to import into the target environment.

If you want to change any settings, click Back.

If you are satisfied with the settings and want to select whether to run, schedule, or save only, click Next.

Deployment specification

Name: VMartQS11Analytics	Description: IBM Cognos 11 Analytics
------------------------------------	--

Deployment archive

Name:
VMartQS1022

Public folders, directory and library content

...	Name	Target name
	VMart Analysis	VMart Analysis

Options:

- Do not include report output versions
- Do not include uploaded data
- Do not include run history
- Do not include schedules

Directory content

- Do not include Cognos groups and roles
- Do not include distribution lists and contacts
- Include data sources and connections
 - Do not include signons
 - Replace existing entries

General Options

- Include access permissions
 - Apply to new and existing entries
- Do not include references to external namespaces
- Set the owner to the owner from the source
 - Apply to new and existing entries
- Recording level: Basic

Buttons: Cancel, < Back, Next >, Finish

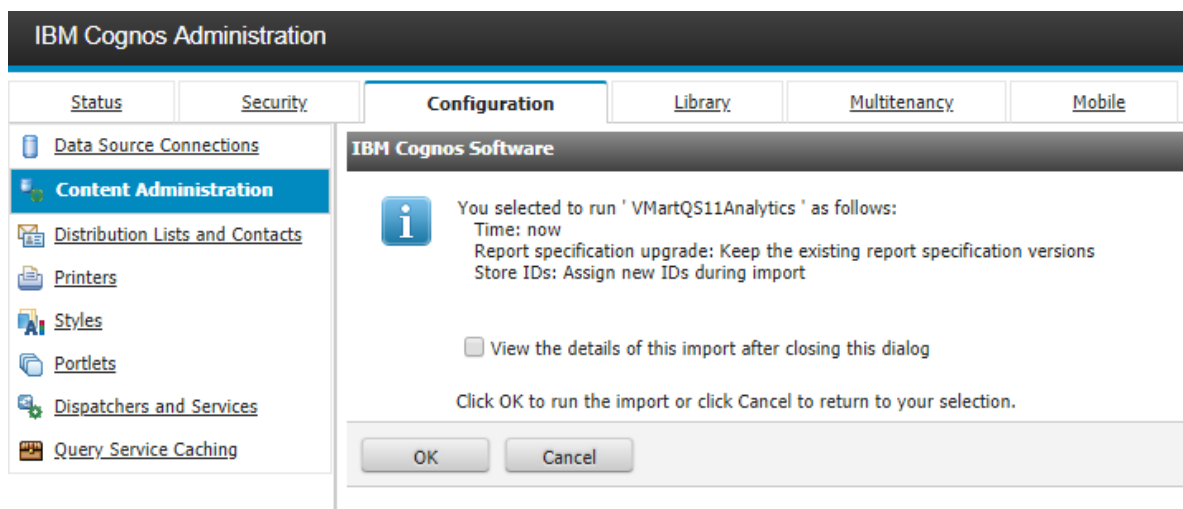
13. Select **Save and run once**, then click **Finish**.

The screenshot shows the IBM Cognos Administration interface. The 'Configuration' tab is selected. On the left, the 'Content Administration' menu is expanded. The main area displays the 'Select an action - New Import wizard' dialog. It instructs the user to 'Select whether you want to run, schedule, or save only, when the wizard closes.' Under the 'Action:' section, the 'Save and run once' radio button is selected. At the bottom, there are buttons for 'Cancel', '< Back', 'Next >', and 'Finish'.

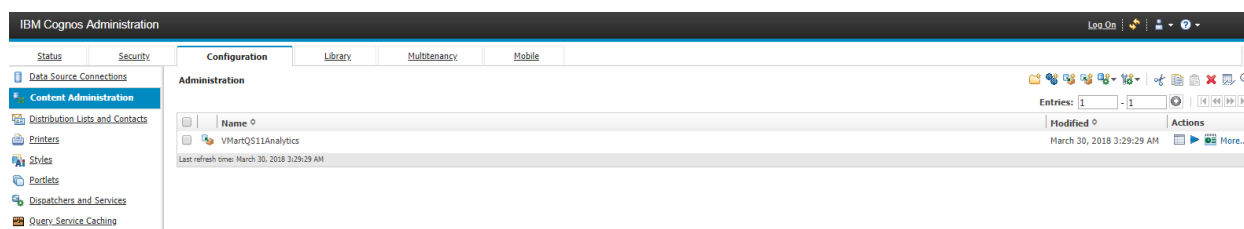
14. Select **Now** and click **Run**.

The screenshot shows the IBM Cognos Administration interface. The 'Configuration' tab is selected. On the left, the 'Content Administration' menu is expanded. The main area displays the 'Run with options - VMartQS11Analytics' dialog. It instructs the user to 'Specify when you want to run this import.' Under the 'Time:' section, the 'Now' radio button is selected. Below it, the date is set to 'Mar 30, 2018' and the time to '3 : 26 AM'. Under the 'Content:' section, a list of content items is shown with checkboxes: 'Content store' (checked), 'Directory' (checked), 'Cognos namespace' (checked), and 'Vmart Analysis' (checked). Below this, the 'Report specification upgrade:' section has two options: 'Upgrade all report specifications to the latest version' (unchecked) and 'Keep the existing report specification versions' (checked). The 'Store IDs:' section has two options: 'Assign new IDs during import' (checked) and 'Do not assign new IDs during import' (unchecked). At the bottom, there are buttons for 'Run' and 'Cancel'.

15. Click **OK**.



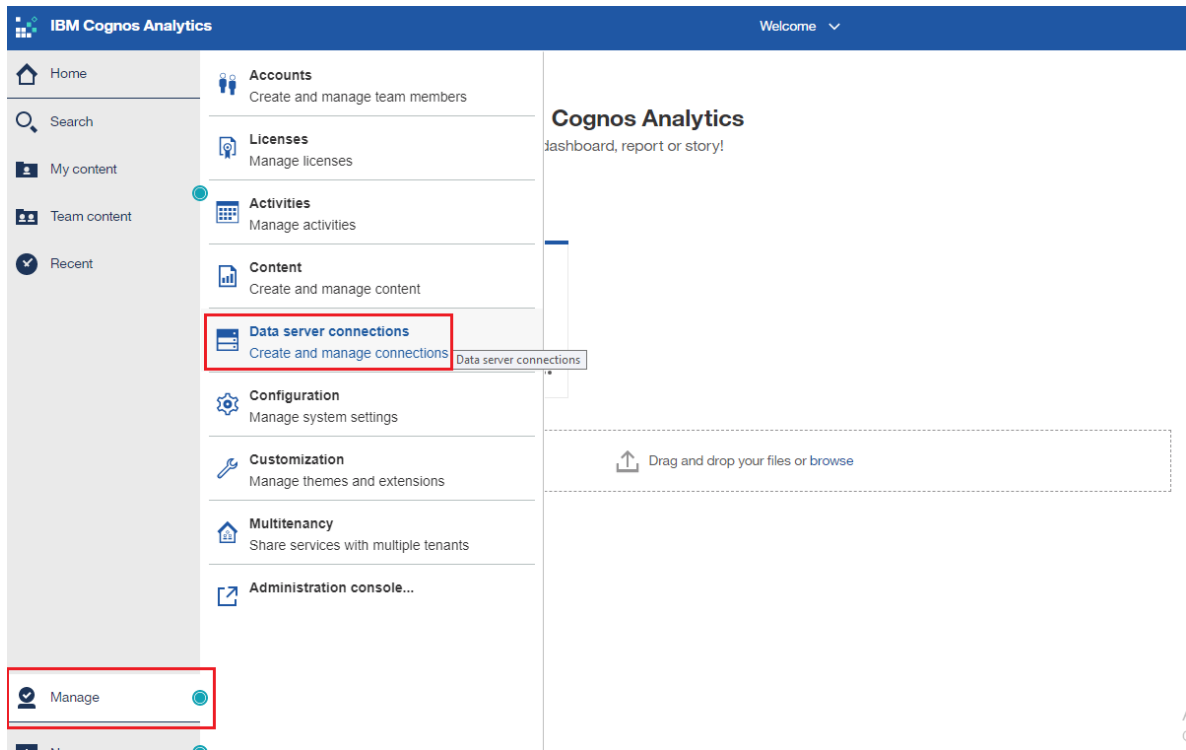
VMartQS11Analytics will be listed under **Content Administration** on the **Configuration** tab.



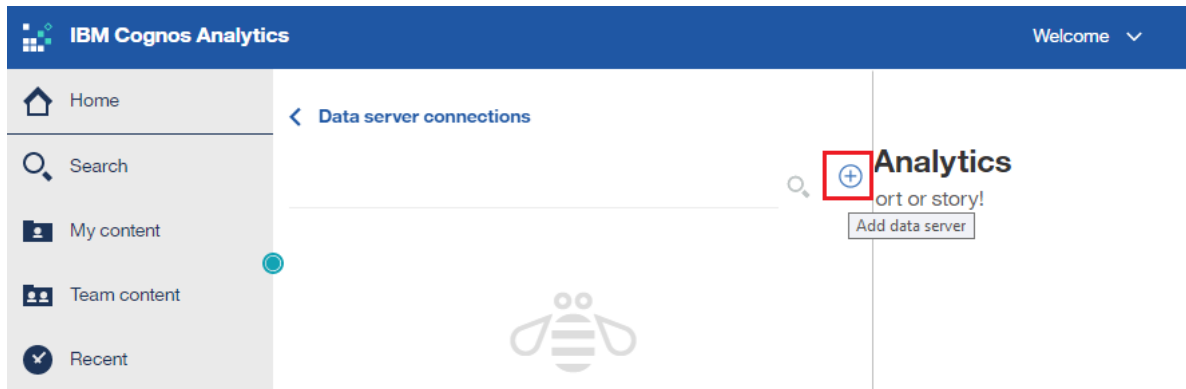
Connect to the VMart Data Source

The QuickStart example application uses JDBC to connect to your VMart database. Follow these steps to create the connection:

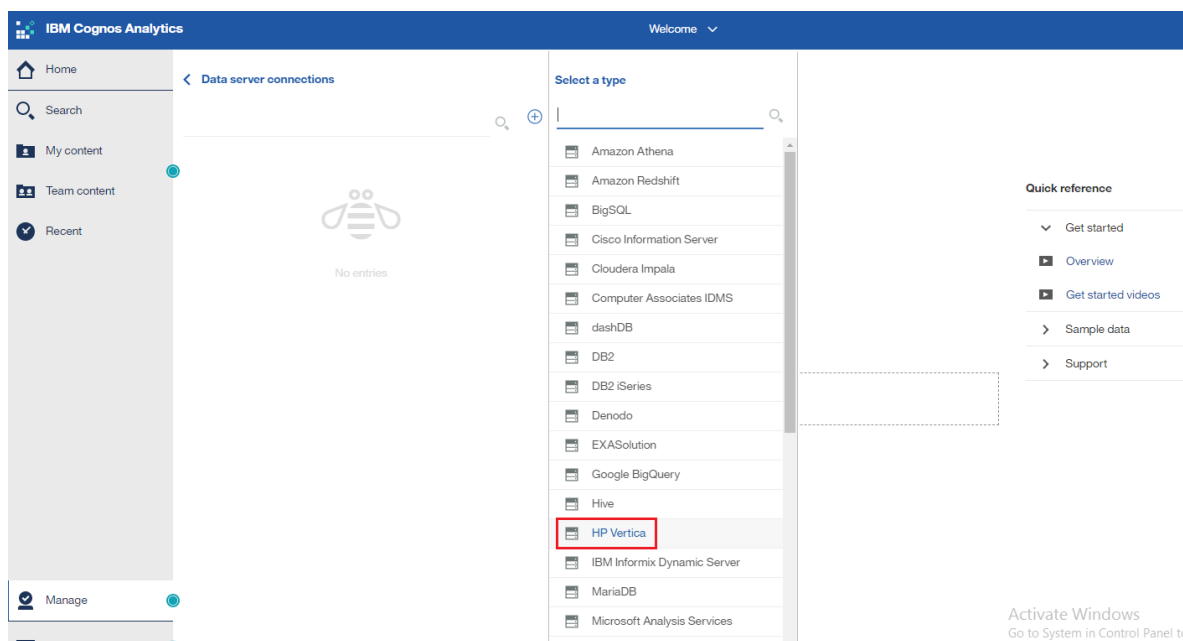
1. On the Cognos Analytics portal, click **Manage**, then **Data server connections**.



2. Click the plus sign (+) to create a new database connection.

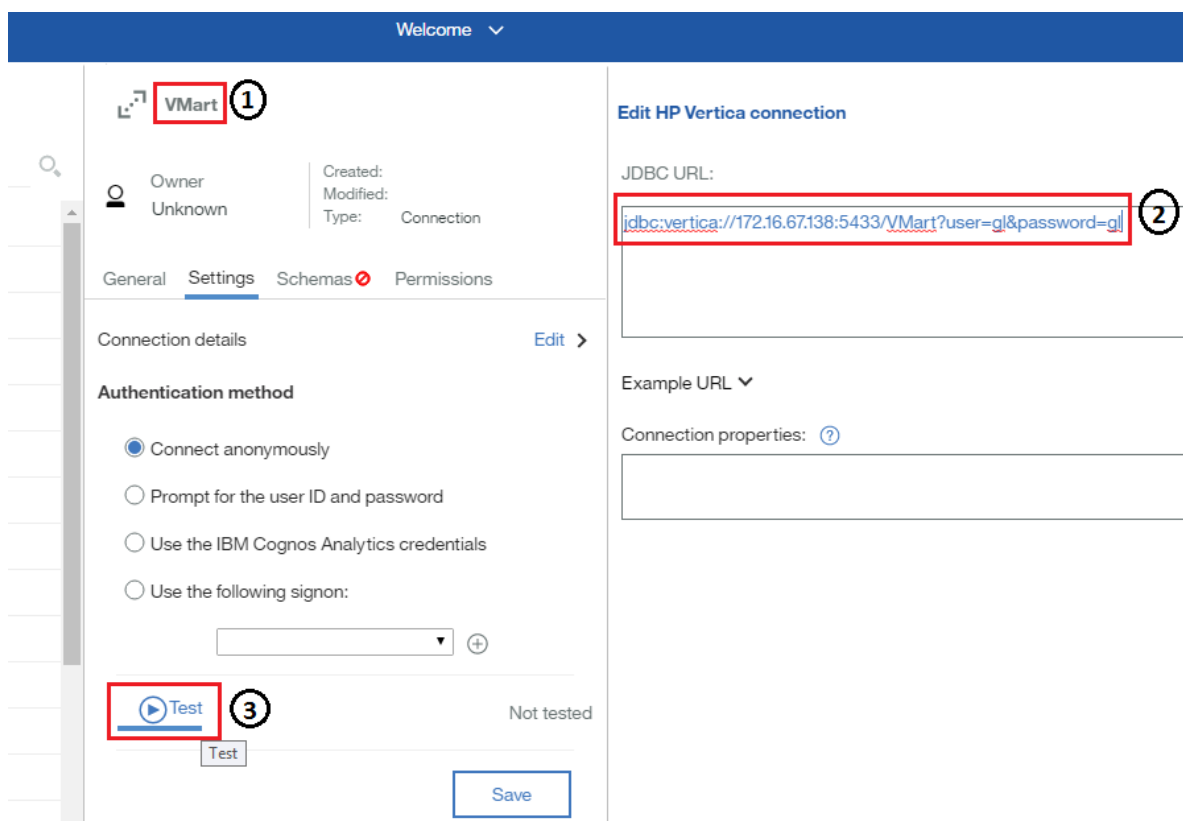


3. Select **HP Vertica**.



4. Specify and test the connection:

- a. Type **VMart**.
- b. Provide the **JDBC URL**.
- c. Click **Test**.



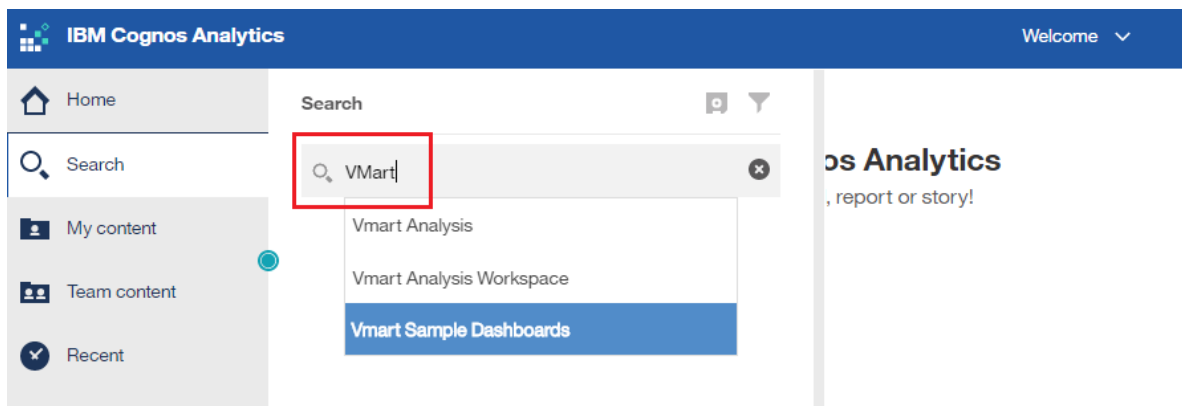
5. When the connection is successful and a **Success** notification displays, click **Save**.

6. Click **Close**.

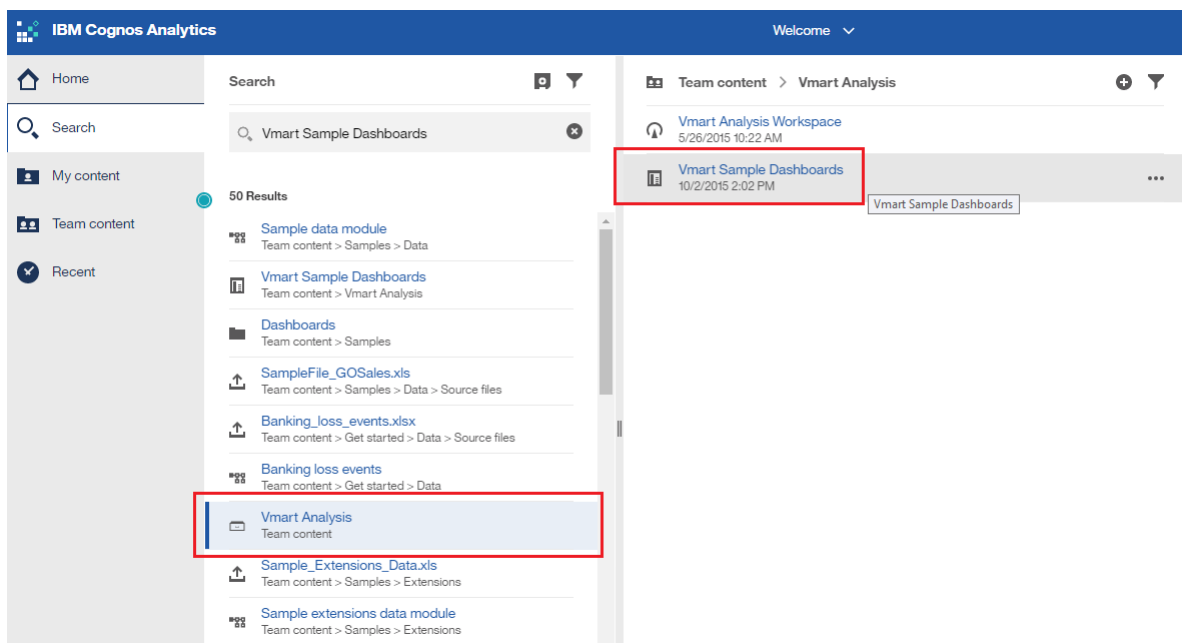
Open the QuickStart in Cognos Analytics

To run the reports, follow these steps:

1. On the Cognos Analytics portal, search for VMart, then click **VMart Sample Dashboards**.



2. Click **VMart Analysis**, then Vmart Sample Dashboards.



3. When the dashboards display, click **Run options**.

4. Click **Run HTML**.

When the dashboards have run, the QuickStart is ready to use.

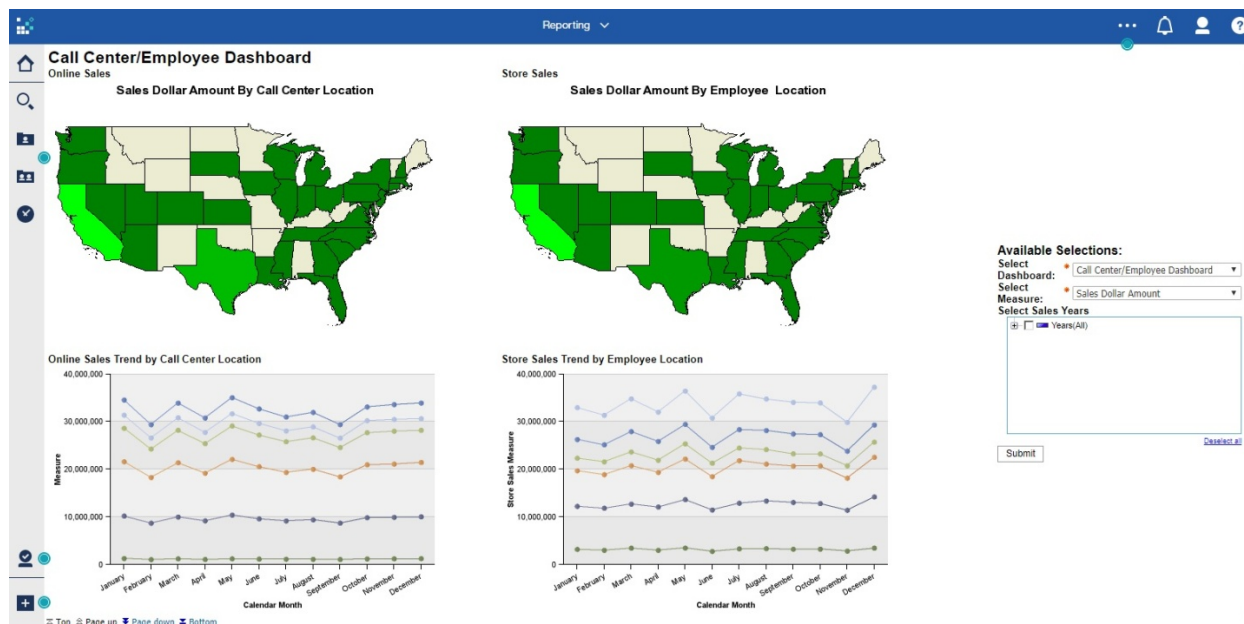
About the QuickStart Dashboards

The QuickStart dashboards present sample business and operational data that a large retail chain might track over time. The chain operates brick-and-mortar stores and an online marketplace. It sells a wide variety of products that it purchases from different vendors.

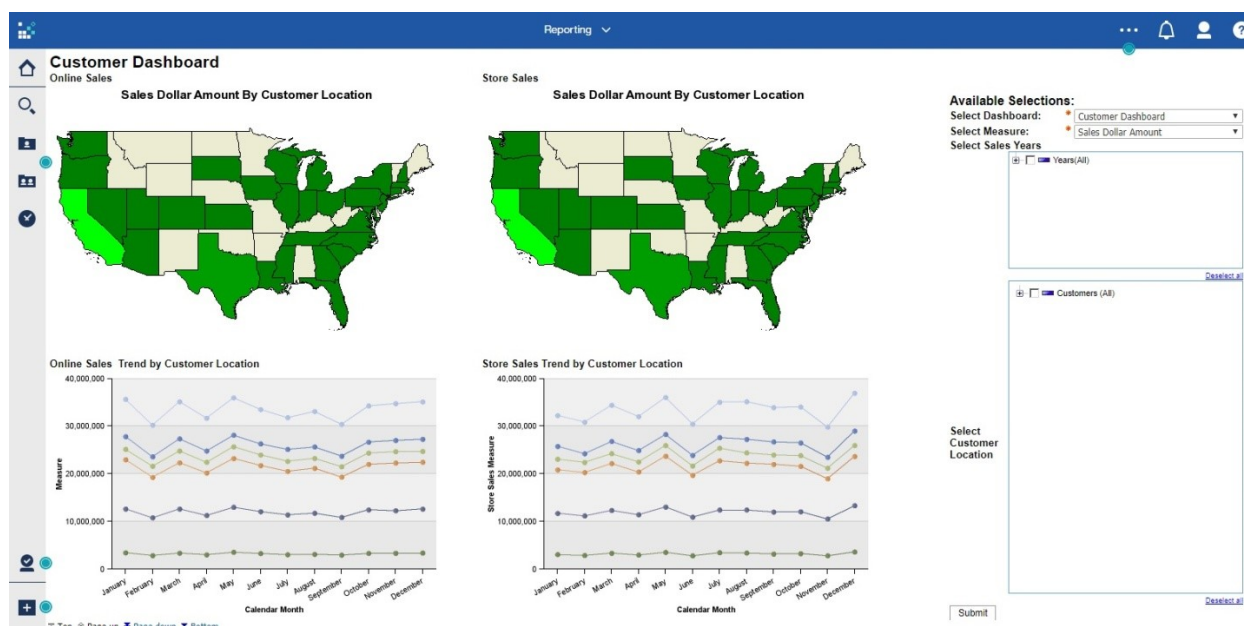
Note The data in your dashboards will not match the data in the screen shots in this document. This is because the VMart data generator generates data randomly.

Images from some of the dashboards appear in the following sections.

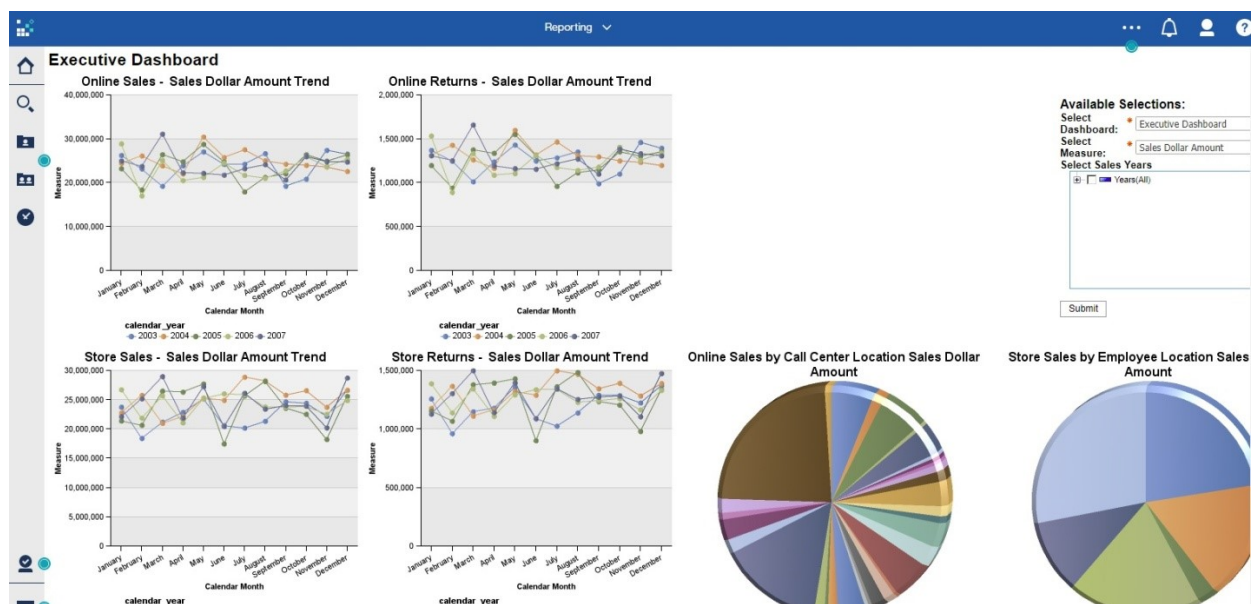
Call Center/Employee Dashboard



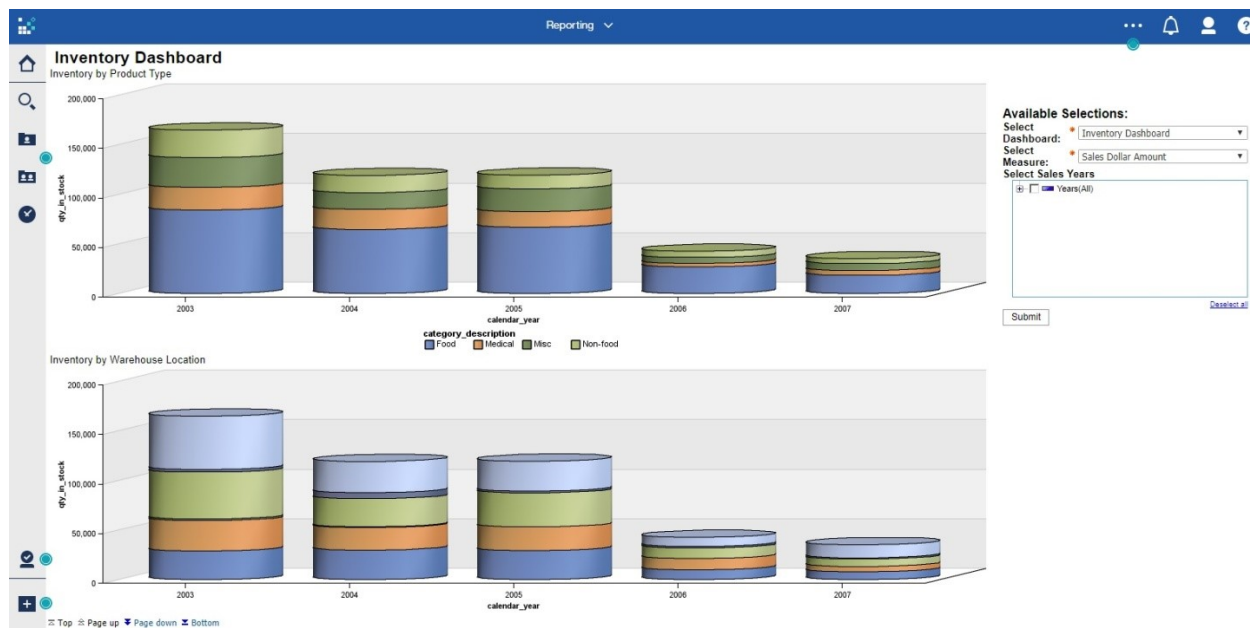
Customer Dashboard



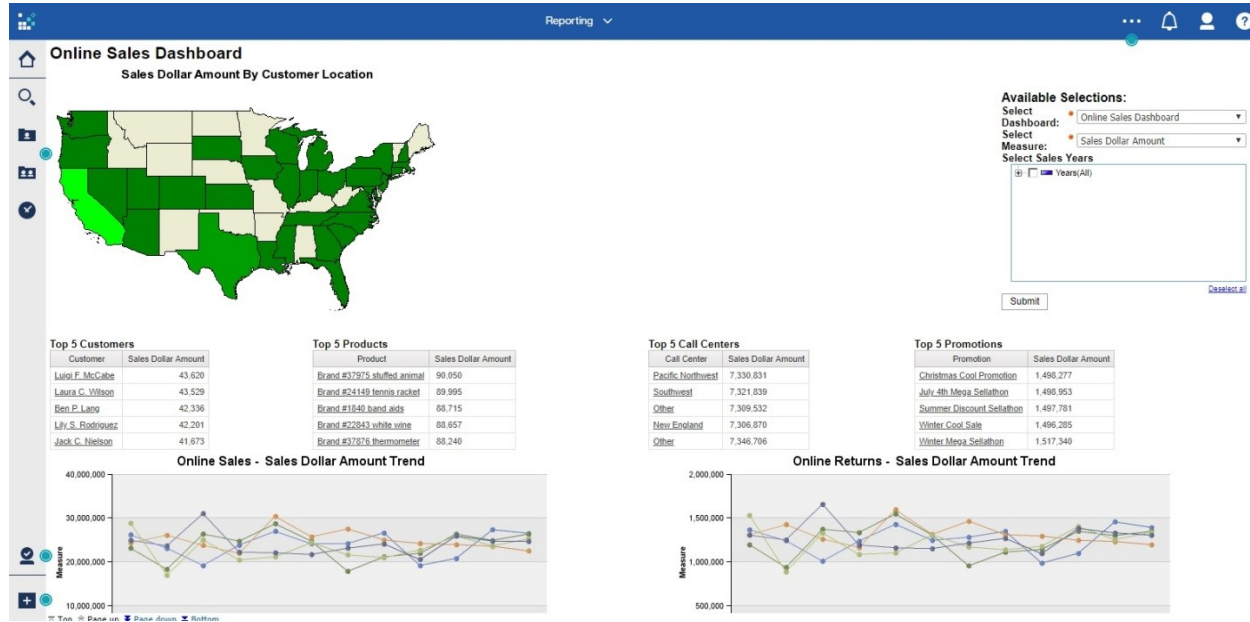
Executive Dashboard



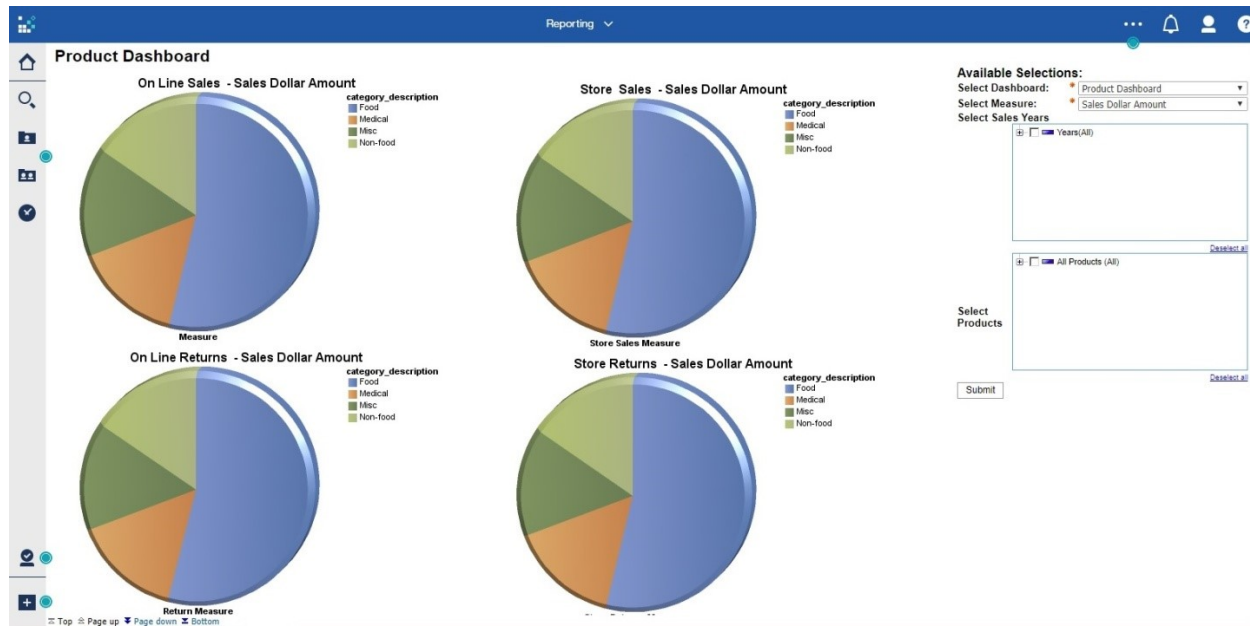
Inventory Dashboard



Online Sales Dashboard



Produce Dashboard



Vendor Dashboard



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