Dashboard Creation

Estimated time needed: **30** minutes.

Scenario

You are a data engineer at an e-commerce company. Your company has finished setting up a datawarehouse. Now you are assigned the responsibility to design a reporting dashboard that reflects the key metrics of the business.

Objectives

In this assignment you will:

- Create a dashboard using Cognos Analytics

Tools / Software

- IBM Cognos Analytics (You can either use IBM Cognos Analytics or Cognose Dashboard Embedded and Watson Studio)
- Cloud instance of IBM DB2 database

Note - Screenshots

Throughout this lab you will be prompted to take screenshots and save them on your own device. You will need these screenshots to either answer graded quiz questions or to upload as your submission for peer review at the end of this course. You can use various free screengrabbing tools to do this or use your operating system's shortcut keys to do this (for example Alt+PrintScreen in Windows).

Pre-requisites

- If you plan to use the IBM Cognos Analytics Trial version to do this lab, it is presumed that you have worked on it already. If you want to brush up the basics of using Cognos Analytics , it is recommeneded that you finish the [this lab](#) .

- If your Cognos Analytics trial has expired, it is highly recommened that you finish the [Setup and Practice Assignment](#) before you proceed with this assignment using Cognos Dashboard Embedded and Watson Studio.

Environment Setup

Before you proceed with the assignment :

- Download the data from this [link](#)

Exercise 1 - Load data into the data warhouse

Task 1 - Import data

Import data in the file "ecommerce.csv" (You have downloaded this data in exercise 1). into a table named `sales_history`

Take a screenshot of the command you used and the output.

Name the screenshot as `dataimport.jpg`. (images can be saved with either .jpg or .png extension)

Task 2 - List top 10 rows

List the first 10 rows in the table `sales_history`

Take a screenshot of the command you used and the output.

Name the screenshot as `top10rows.jpg`. (images can be saved with either .jpg or .png extension)

Exercise 2 - Create data source in Cognos.

Task 3 - Create a data source in Cognos that points to the table `sales_history` in your IBM DB2 database.

Take a screenshot of the command you used and the output.

Name the screenshot as `datasource.jpg`. (images can be saved with either .jpg or .png extension)

Exercise 3 - Create dashboard

Task 4 - Create a line chart

Create a line chart of month wise total sales for the year 2020.

Take a screenshot of the command you used and the output.

Name the screenshot as `linechart.jpg`. (images can be saved with either .jpg or .png extension)

Task 5 - Create a pie chart

Create a pie chart of category wise total sales.

Take a screenshot of the command you used and the output.

Name the screenshot as `piechart.jpg`. (images can be saved with either .jpg or .png extension)

Task 6 - Create a bar chart

Create a bar chart of Quarterly sales of mobile phones

Take a screenshot of the bar chart.

Name the screenshot as `barchart.jpg`. (images can be saved with either .jpg or .png extension)

End of assignment.

Authors

Ramesh Sannareddy

Other Contributors

Rav Ahuja

Change Log

Date (YYYY-MM-DD)	Version	Changed By	Change Description
2021-11-23	0.1	Ramesh Sannareddy	Created initial version
2022-02-02	0.2	Ramesh Sannareddy	Updated version