# Hands-on Lab: Analyzing Data With Cognos Analytics

**Estimated time needed: 20 minutes**

## Purpose of the Lab:

This advanced Cognos Analytics lab is designed to provide hands-on experience in utilizing more sophisticated features of the Cognos Analytics dashboard. It aims to teach you how to initiate new dashboards, create complex calculations, manage data visualization more effectively, and apply advanced analytical techniques like top/bottom settings, navigation paths, and data filtering within a dashboard. The exercises are tailored to impart practical knowledge in handling and visualizing data in multifaceted ways, enabling a more detailed and nuanced exploration of datasets.

## Benefits of Learning the Lab:

Learning this lab offers significant advantages, especially for individuals looking to deepen their understanding of business intelligence tools and data visualization. The skills acquired are valuable for:

Enhanced Data Analysis Capabilities: Understanding how to manipulate and filter data, create meaningful calculations, and navigate through complex datasets allows for more insightful data analysis.

Improved Decision Making: With the ability to create detailed and interactive dashboards, you can present data in ways that support better business decisions.

Advanced Visualization Skills: Knowing how to leverage Cognos Analytics' advanced features, such as keeping/excluding data points and setting top/bottom visualizations, enhances yours ability to present data in a more compelling and informative manner.

Increased Efficiency: The ability to create navigation paths within dashboards saves time and improves the user experience, making data exploration more intuitive and less time-consuming.

Professional Development: These advanced skills are highly sought after in many roles involving data analysis, business intelligence, and information management, thus adding significant value to one's professional profile.

Overall, this lab provides an excellent opportunity to master advanced features of Cognos Analytics, making it a worthwhile investment for anyone aiming to excel in data-driven environments.

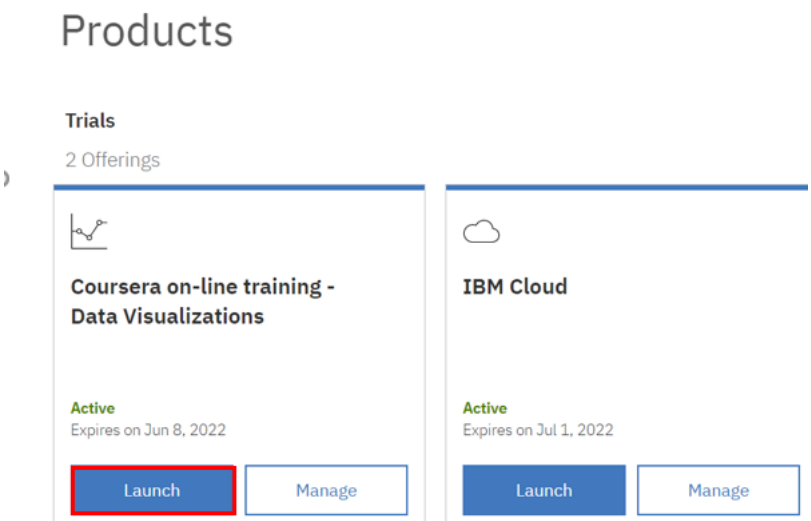
### Objective for Exercise:

- To create a dashboard with Billing data using IBM Cognos Analytics and analyze the regionwise spend.

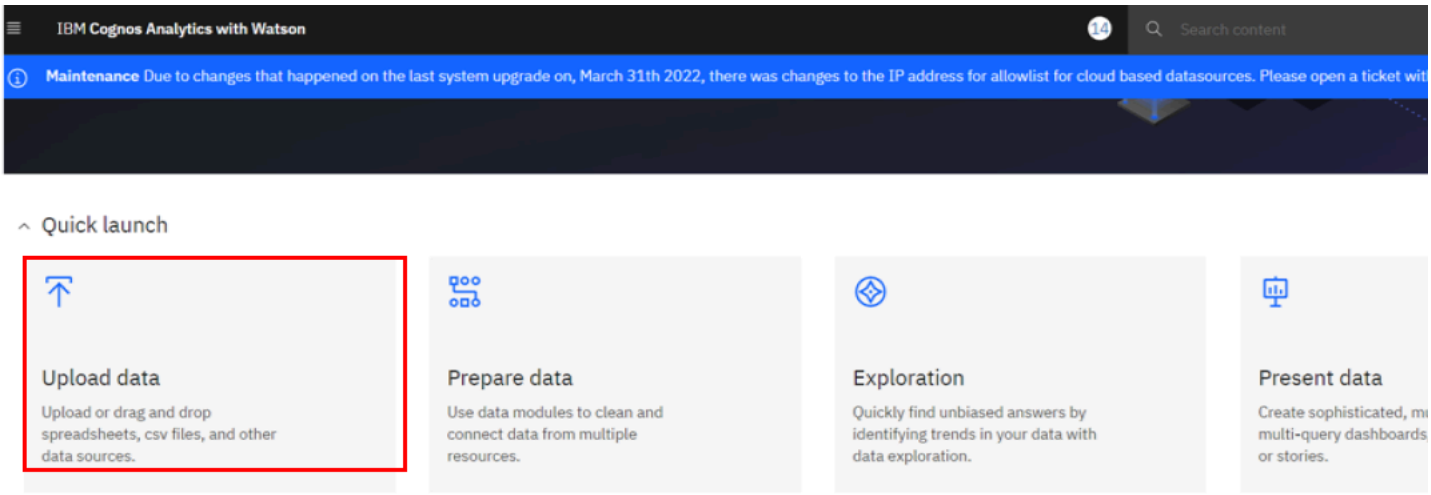
  Note: Click on the data link. Right-click and choose **Save AS…**. Save the file in your local system as *Billing-data.csv*.

### Task 1 - Connect to IBM Cognos Analytics.

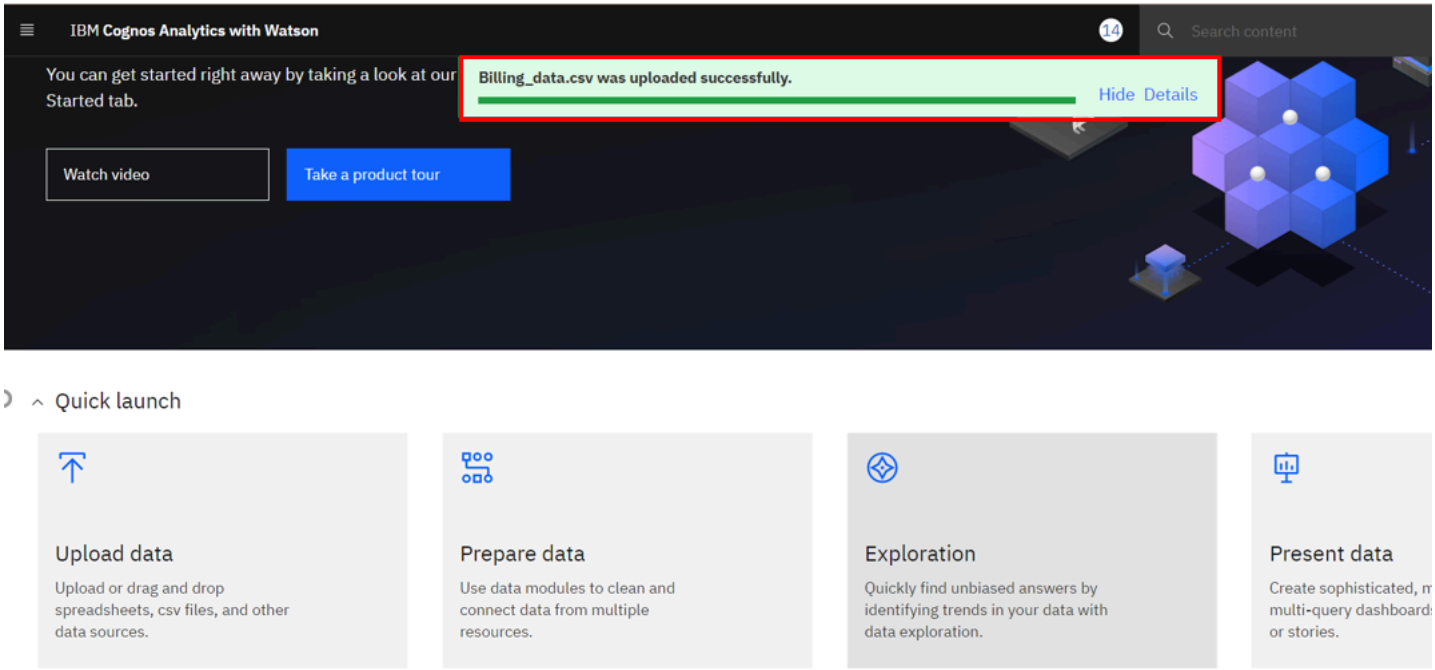
1. Go to IBM Cognos Analytics, login with your IBM Cloud credentails and launch Data visualization.



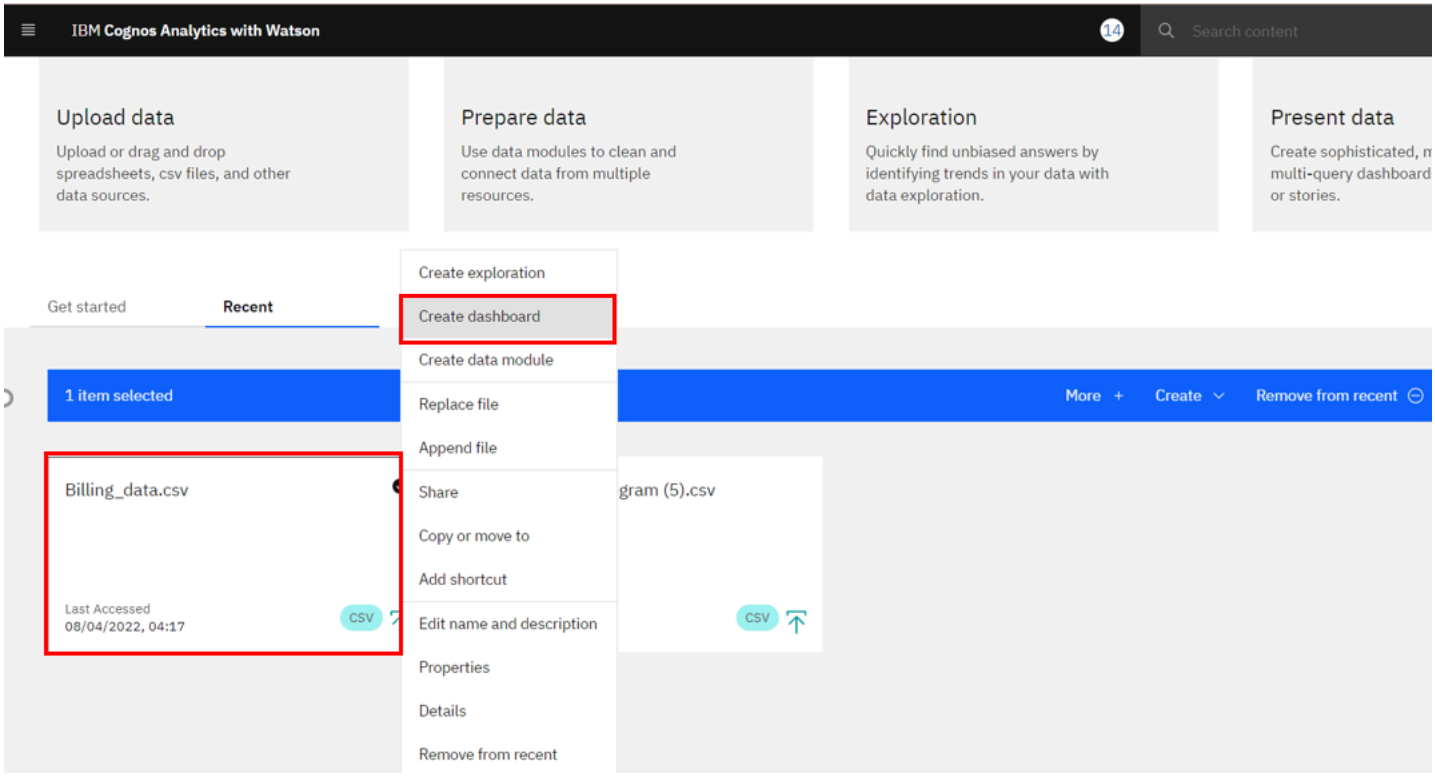

2. Choose the **Upload data** option and select the Billing_data.csv stored in your system.



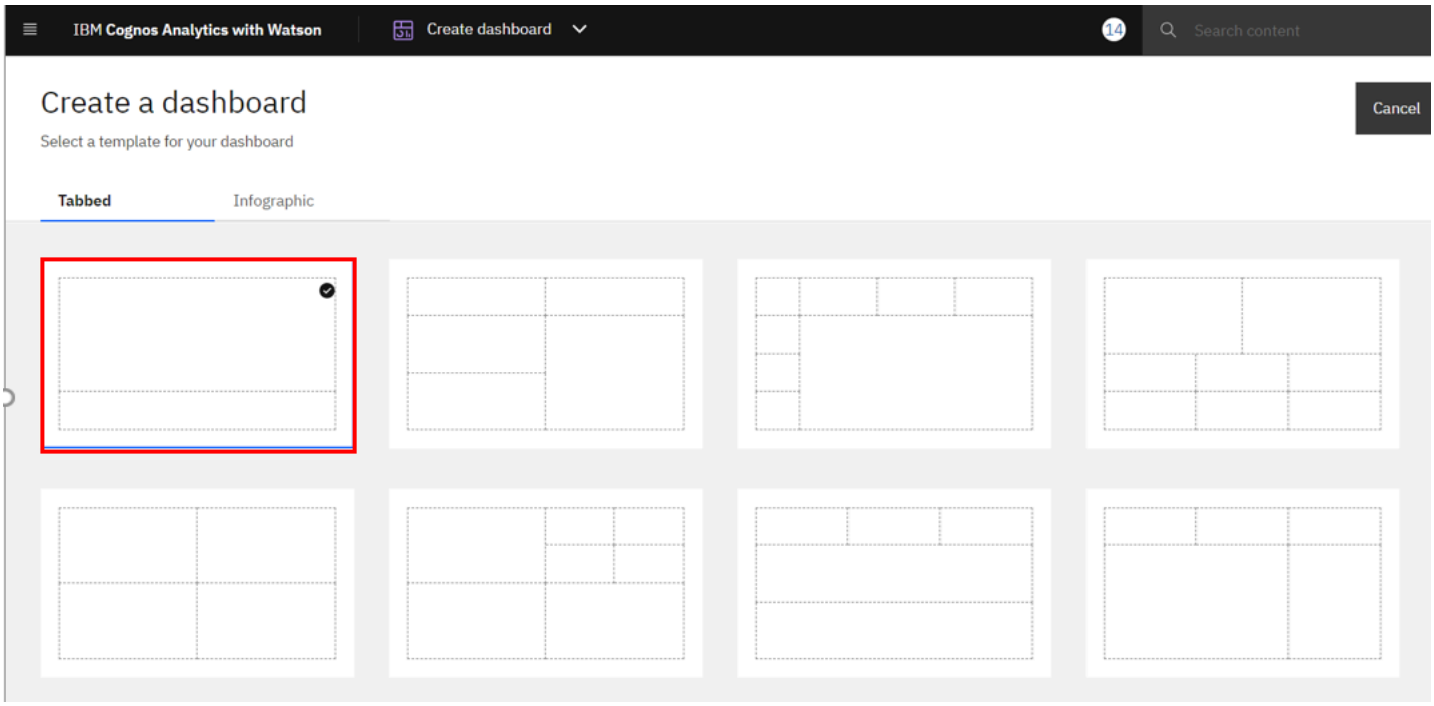

3. If the data is loaded successfully it shows a successfully loaded.




4. Go to **Recent** and right Click on **Billing_data.csv** and click on create dashboard.



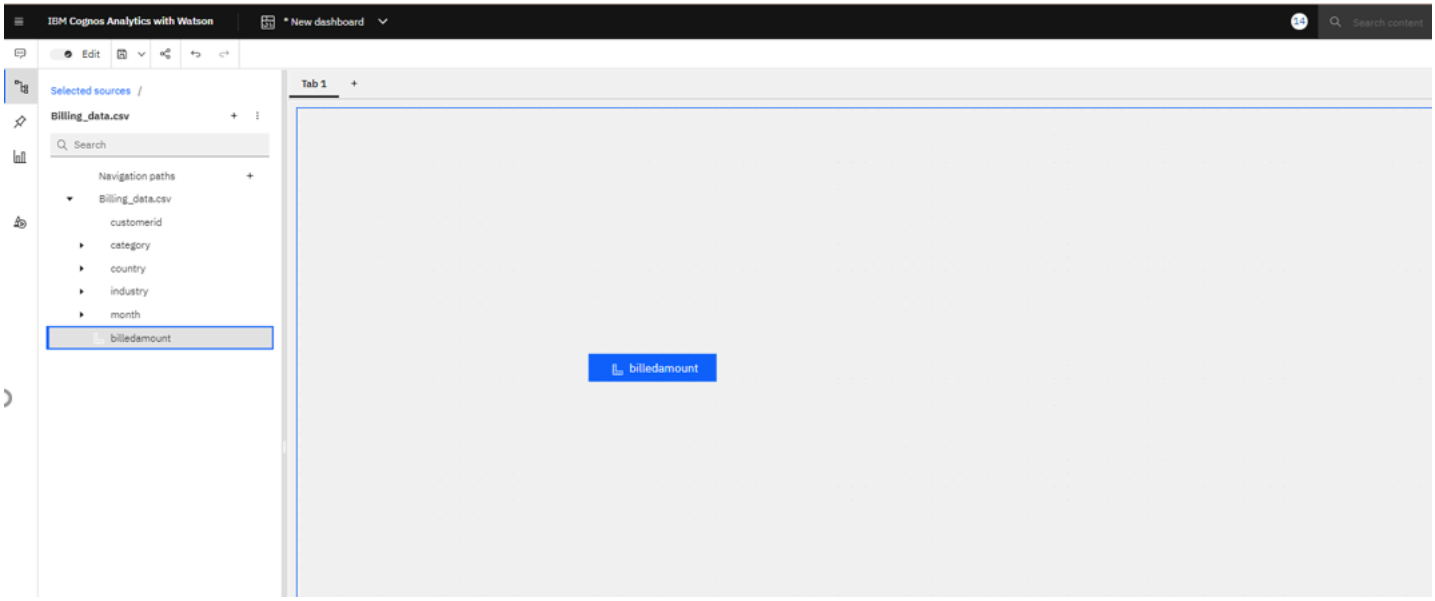

5. Choose to a dashboard and Click on **Create**.



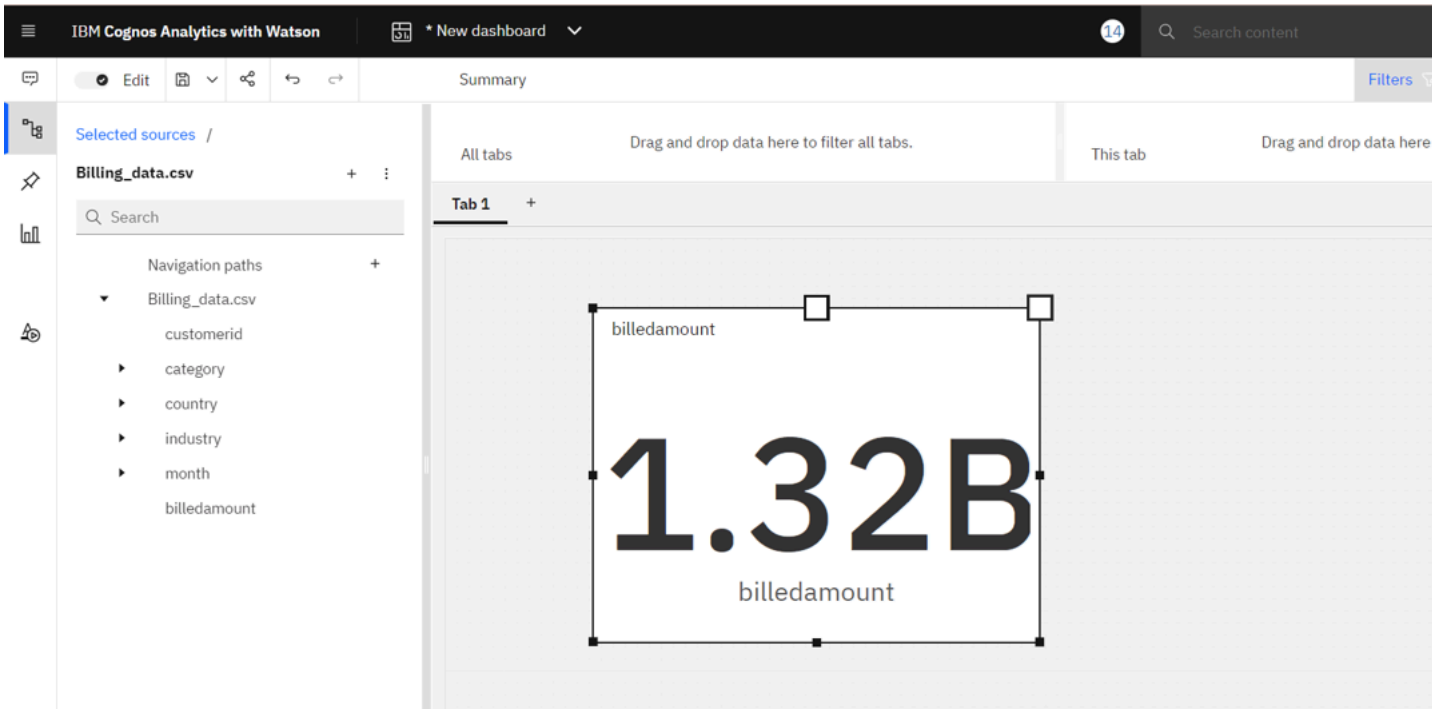

### Task 2 - Visualization

You will now see the table listed on the left panel with all the attributes.

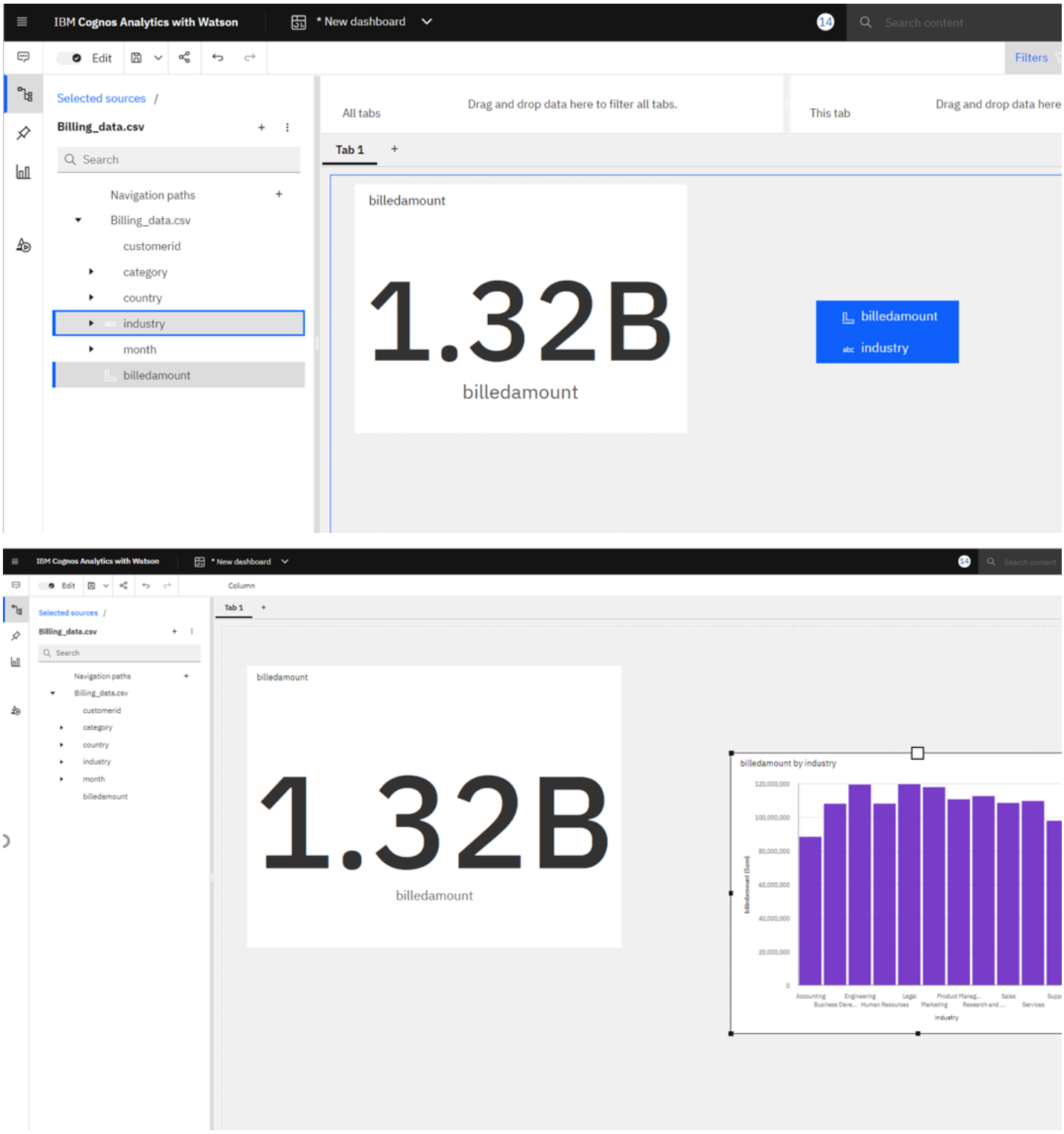
1. Drag and drop the **Billed Amount** on the template.



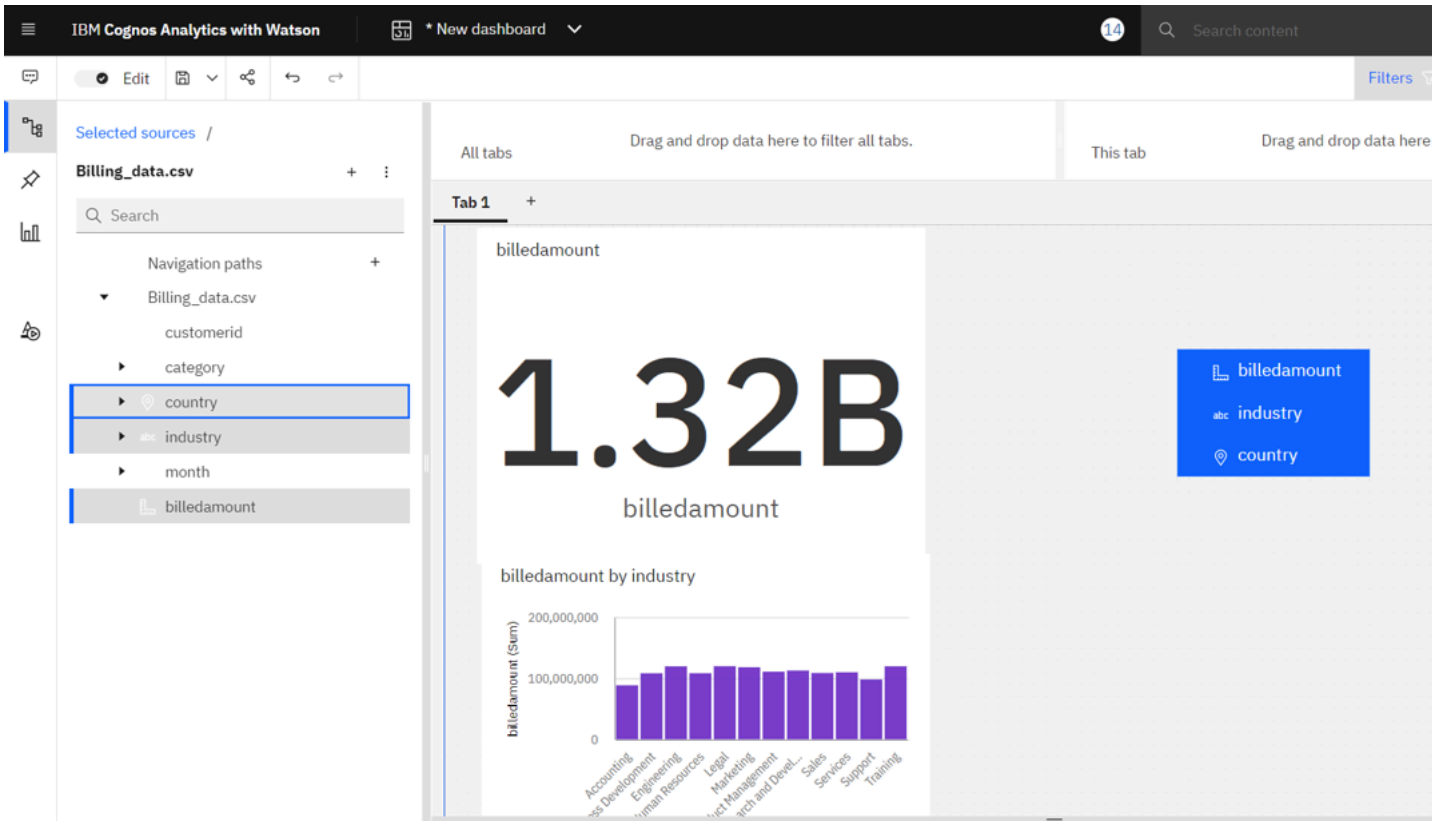

2. The total billed amount will now appear on the Dashboard. The size and position can be adjusted as per requirement and the text display can be edited and formatted by double-clicking on it.



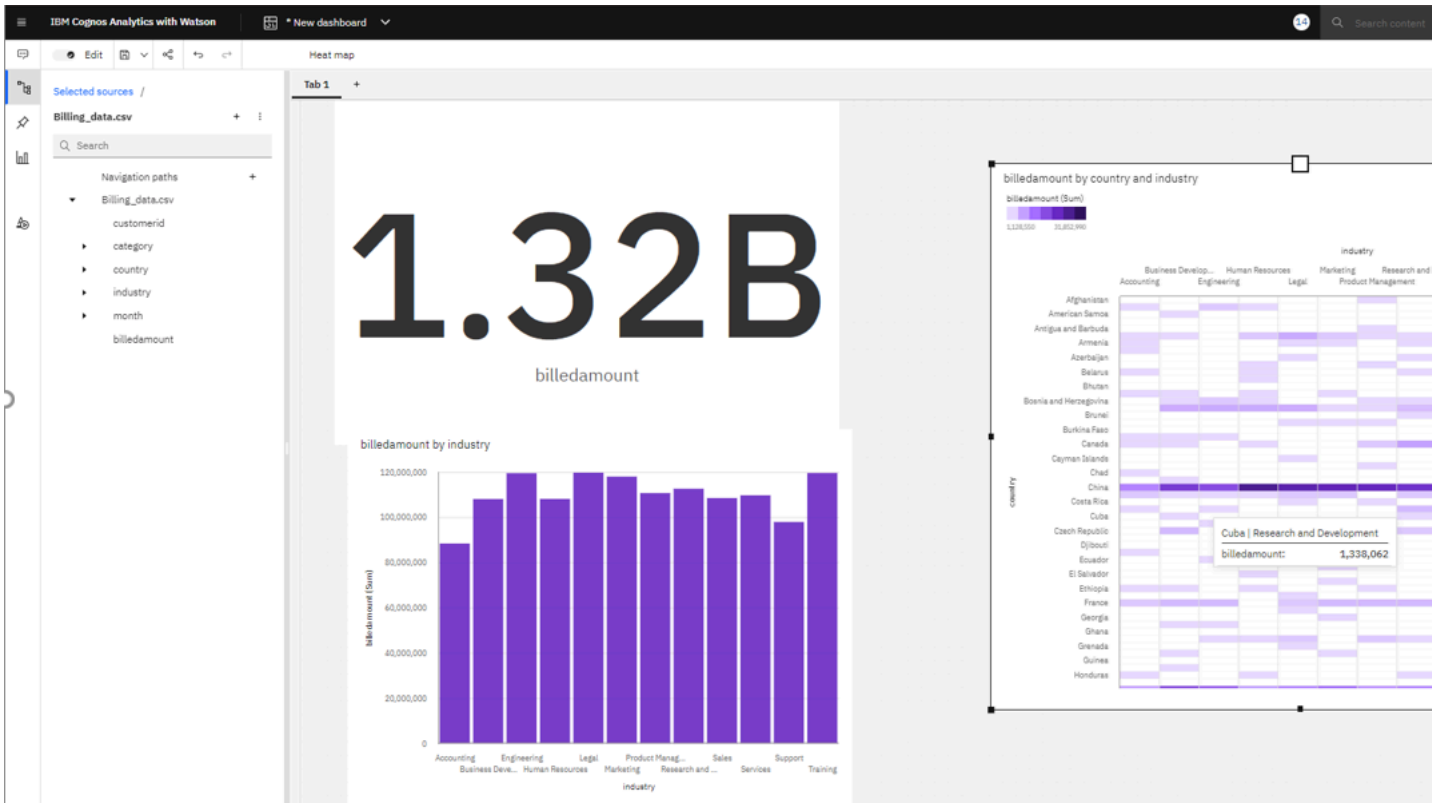

3. Drag and drop **Billed Amount** and **Industry** onto the dashboard as shown in the following image. With this, we can visualize the build amount per industry.




4. Drag and drop **Billed Amount, Country and Industry** onto the dashboard as shown in the following image. This will generate a heat map of spending by country and by industry.




5. The finished dashboard will appear as in the following image.




6. Optionally, try to change the properties and settings to see how the dashboard changes. You can also observe the billed amount changing as you click on a region on the heat map or the bar graph.

## Credits

### Author(s)

Niveditha Pandith