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Data Analytics With Cognos
How to Create/Run Dashboard
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Creation:

1. Log In to IBM Cognos:
   - Access the IBM Cognos environment by opening a web browser and entering the URL provided by your organization's Cognos administrator. Log in using your credentials.

2. Navigate to the Authoring Environment:
   - After logging in, you will typically see a landing page. Navigate to the authoring or reporting environment. This is where you'll create and design your reports and dashboards.

3. Create a New Report or Dashboard:
   - In the authoring environment, you can usually create a new report or dashboard by selecting "New" or a similar option. Choose the type of report you want to create, such as a list report, crosstab, chart, or dashboard.

4. Select Data Sources:
   - You will be prompted to select the data sources for your report or dashboard. Connect to the relevant data, which may include databases, data warehouses, or other data repositories.

5. Define Report Layout:
   - Design the layout of your report or dashboard. Add data items, columns, and visualizations to the layout. You can typically do this through a drag-and-drop interface.

6. Configure Data and Filters:
   - Set up the data items, apply filters, and specify any calculations or aggregations that you want to include in your report. This step is crucial for defining what data is displayed and how it's presented.

7. Customize Visualizations:
   - Customize the appearance of your visualizations, such as charts and graphs. You can modify colors, labels, legends, axis scales, and more to enhance the visual appeal of your reports.

8. Add Interactivity (for Dashboards):
   - If you're creating a dashboard, add interactive elements such as filters, prompts, and drill-through actions. These features allow users to interact with the data and explore it further.

9. Save Your Report or Dashboard:
   - Once you've designed your report or dashboard, save it. Provide a meaningful name and specify the folder or location where it should be stored within the Cognos environment.

10. Run or View Your Report:
   - Run your report to see how it looks and functions. You can typically do this by clicking a "Run" or "View" button within the Cognos interface.

11. Test and Refine:
- Review your report or dashboard, and test its functionality. Make any necessary refinements to ensure it meets your reporting objectives.

12. Save and Share:
- Save your final report or dashboard. You can also share it with other users or specific user groups within your organization. Sharing options and permissions can be set as needed.

Running of the dashboard

1) Obtain the Dashboard Link:
You should have received or have access to the link that leads to the dashboard. This link can be provided in various ways, such as in an email, a chat message, a document, or a website.

2) Click on the Dashboard Link:
Simply click on the dashboard link. This action will open a new tab or window in your web browser.

3) Loading the Dashboard:
The link will take you to the web address (URL) where the dashboard is hosted. The dashboard's web page will start loading.

4) Enter Credentials (If Required):
Depending on the dashboard's security settings, you may need to enter your login credentials, such as a username and password. If required, fill in the login details and click the "Login" or "Submit" button.

5) Navigate the Dashboard:
Once you've logged in (if necessary), you'll have access to the dashboard. You can navigate through the various sections and visualizations within the dashboard. Dashboards are typically designed to provide a consolidated view of data and often include interactive elements like charts, graphs, tables, and filters.

6) Interact with the Data:
Many dashboards are interactive, allowing you to click on elements to drill down into details or apply filters to explore specific data subsets. Use the dashboard's built-in features to interact with and analyze the data.

7) Run Reports or View Data:
Dashboards often include links or buttons that allow you to run specific reports or view detailed data. Click on these links to access additional information or reports related to the dashboard.

8) Log Out (If Necessary):
If the dashboard requires you to log out for security reasons, be sure to log out when you're done using it. Look for a "Log Out" or "Sign Out" option, typically located in the top or bottom menu of the dashboard.

Running Jupyter Notebook files

"Data_cleaning_PHA.ipynb":

1) Install Jupyter Notebook:
   If you haven't already installed Jupyter Notebook, follow the installation steps mentioned in the previous response.
2) Launch Jupyter Notebook:
   Open your command-line terminal and run the following command to start the Jupyter Notebook server: jupyter notebook. This will open the Jupyter Notebook dashboard in your web browser.
3) Navigate to the Directory:
   In the Jupyter Notebook dashboard, navigate to the directory where your "Data_cleaning_PHA.ipynb" file is located.
4) Open the .ipynb File:
   Click on the name of the "Data_cleaning_PHA.ipynb" file. This will open the notebook in a new tab within your web browser. Make sure “survey.csv” file is uploaded in the directory for data cleaning to be performed on it.
5) Run Code Cells:
   Once the notebook is open, you can run the code cells by selecting them and clicking the "Run" button in the toolbar, or by pressing `Shift+Enter`.
6) Close the Notebook:
   When you're finished with the notebook, you can close the tab in your web browser. Make sure to save your work before closing.

"Data Analytics.ipynb":

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   Open your command-line terminal and run the following command to start the Jupyter Notebook server: jupyter notebook. This will open the Jupyter Notebook dashboard in your web browser.
3) Navigate to the Directory:
   In the Jupyter Notebook dashboard, navigate to the directory where your " Data Analytics.ipynb " file is located.
4) Open the .ipynb File:
   Click on the name of the " Data Analytics.ipynb " file. This will open the notebook in a new tab within your web browser. Make sure “cleaned_mental_health_survey.csv” file is uploaded in the directory for data cleaning to be performed on it.
5) Run Code Cells:
   Once the notebook is open, you can run the code cells by selecting them and clicking the "Run" button in the toolbar, or by pressing `Shift+Enter`.
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