



SCHOOL OF COMPUTER APPLICATION

Project

Descriptive Analytics (DA)

(Group Number -1)

Dataset Name: - netflix_titles.csv

Submitted To: - Submitted By: -

Mr. Aayush Chand Group Member's name:

Batch:

BCADS21

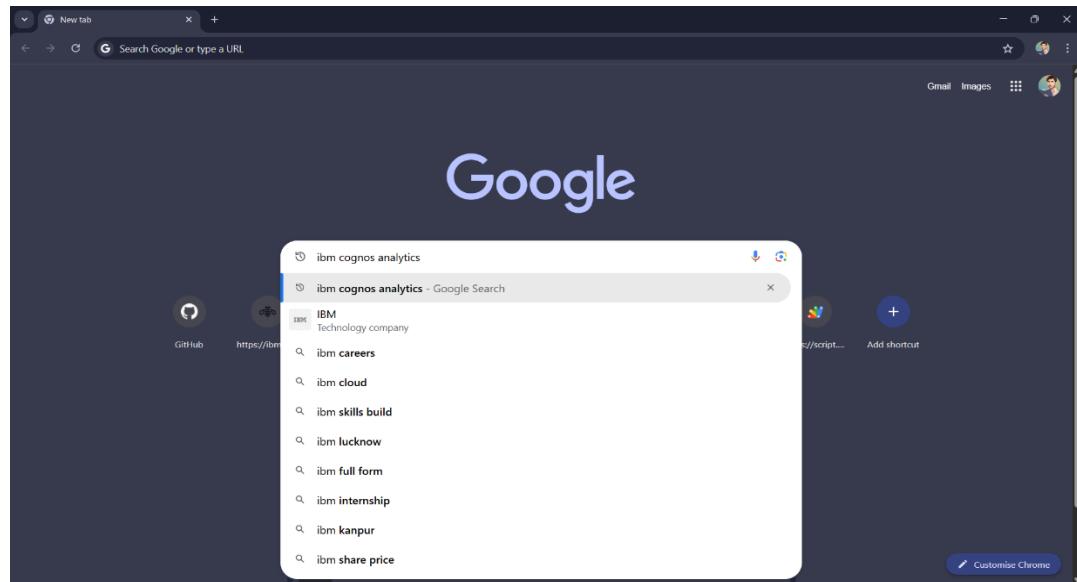
1. Ajay Chauhan
2. Abhishek Dwivedi
3. Aman Bhardwaj
4. Akhil Raj Patel
5. Aman Kumar Pandey

PROJECT

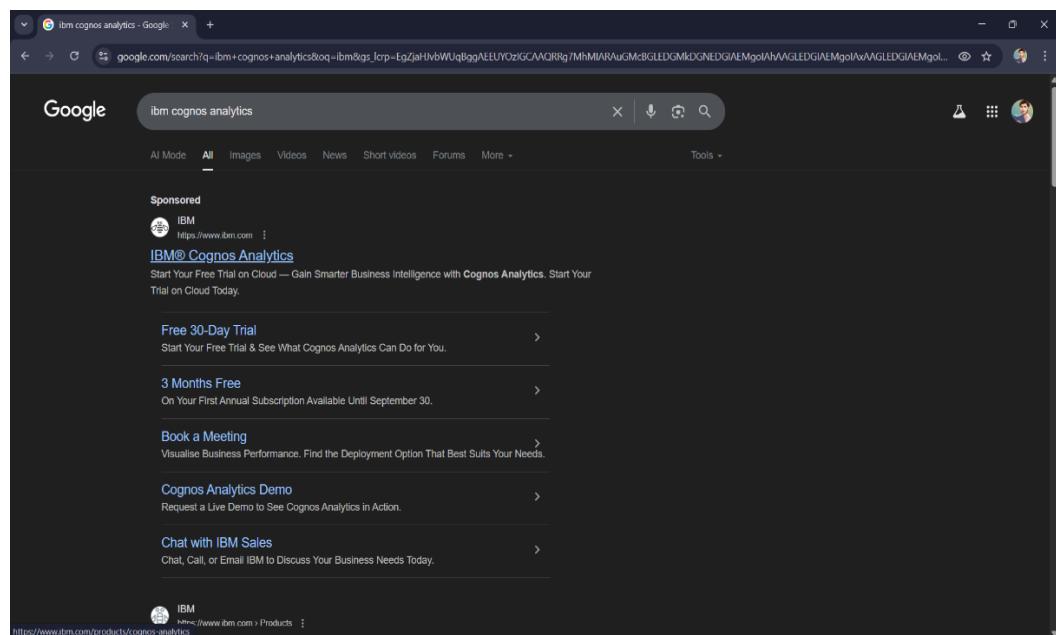
Problem Statement - 01: - Create a “List-Report” table showing each country as a rows and genres as columns, with counts of titles.

Solution:

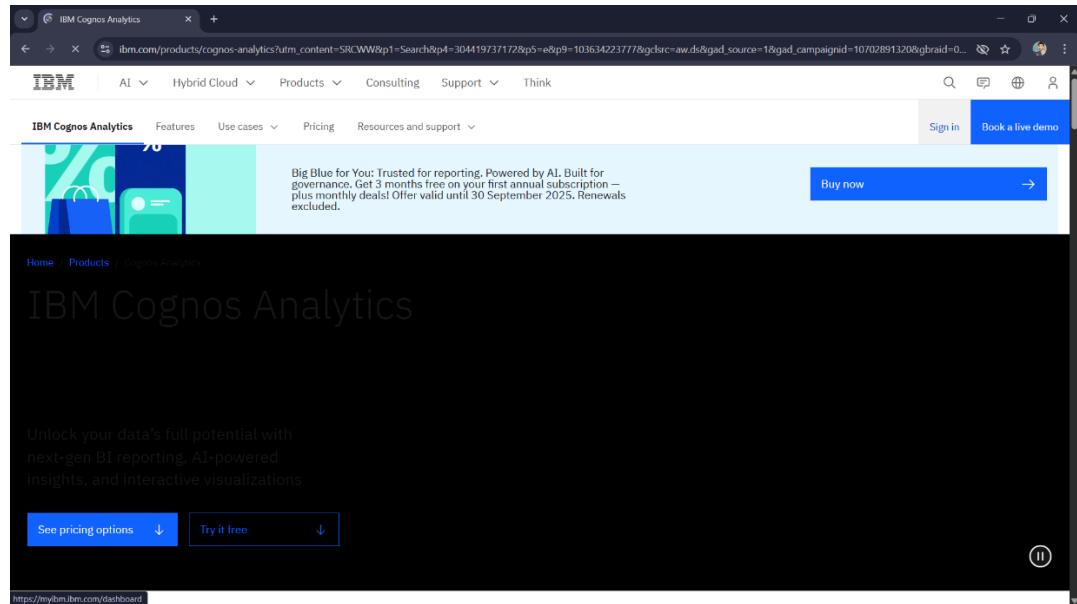
Step 1: - Open Google Chrome, click in the search bar, type “IBM Cognos Analytics”, and press Enter.



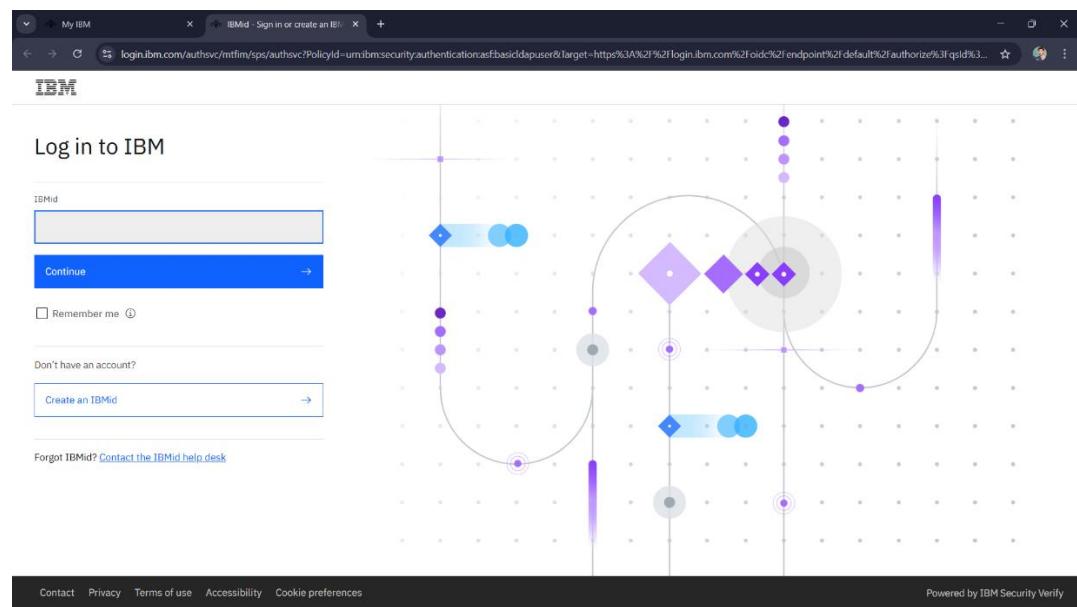
Step 2: - From the results, click the first link that comes from the official IBM site (look for ibm.com and the title “IBM Cognos Analytics”).



Step 3: - When the IBM Cognos Analytics page opens, locate and click [Sign in](#) icon at the top right.

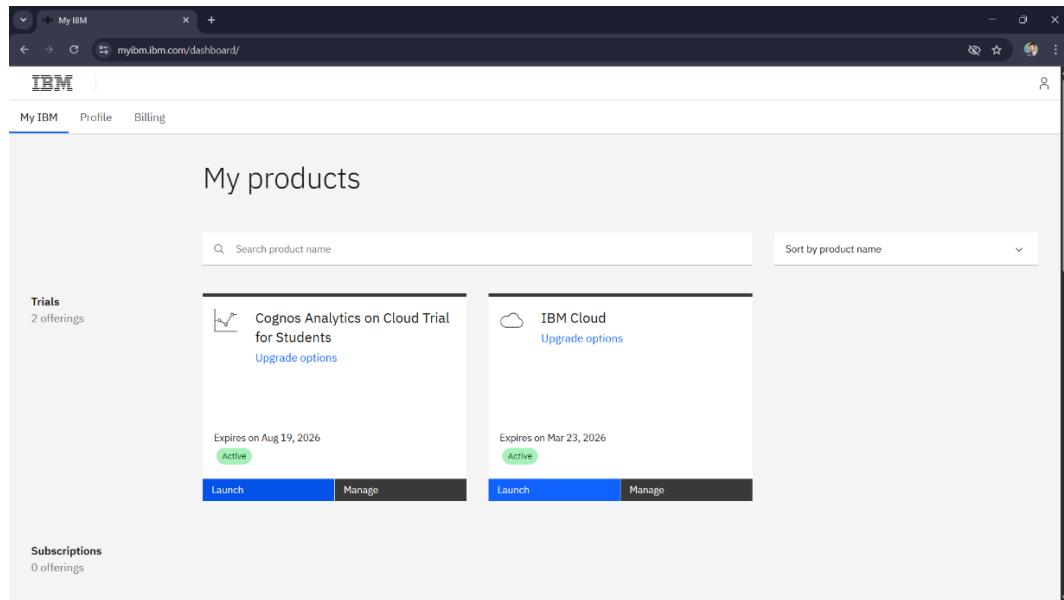


Step 4: - Choose to sign in with your 'IBMid' (select the IBMid / email option). Enter your "IBMid email and password", then click [Continue](#) icon.



GROUP NUMBER: 1

Step 5: - After signing in, you will land on the IBM Cloud console or the Cognos product page. Find the service named “**Cognos Analytics on Cloud Trial for Students**” and click **Launch** icon.

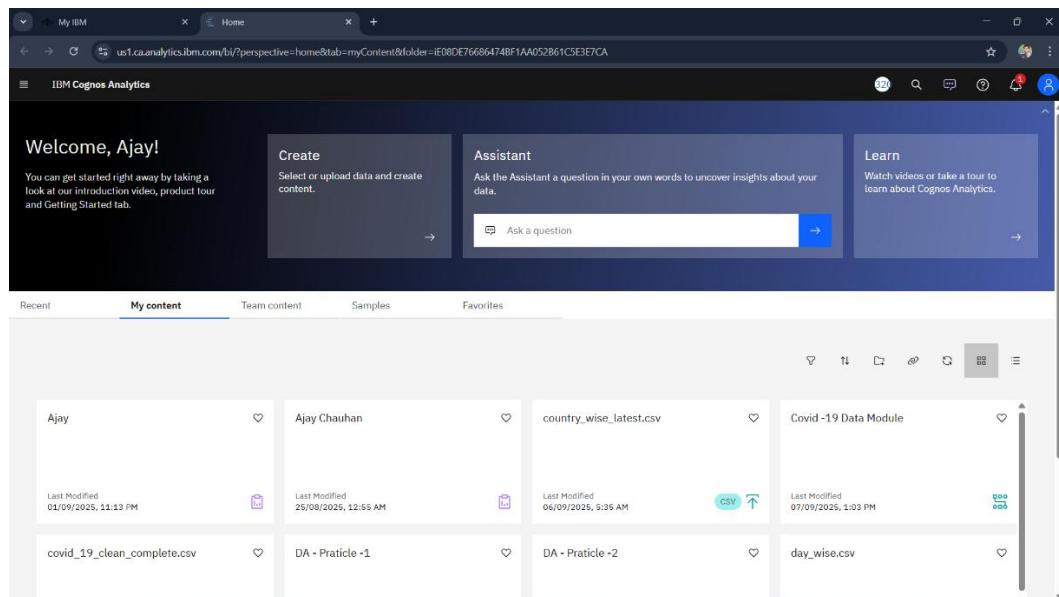


The screenshot shows the 'My products' section of the My IBM dashboard. It lists two offerings under the 'Trials' category:

- Cognos Analytics on Cloud Trial for Students**: Expires on Aug 19, 2026. Status: Active. Buttons: Launch (blue), Manage (black).
- IBM Cloud**: Expires on Mar 23, 2026. Status: Active. Buttons: Launch (blue), Manage (black).

Under the 'Subscriptions' category, it shows 0 offerings.

Step 6: - After clicking the Launch button, the IBM Cognos official website opens. The display shows the first page of IBM Cognos Analytics, as shown below.



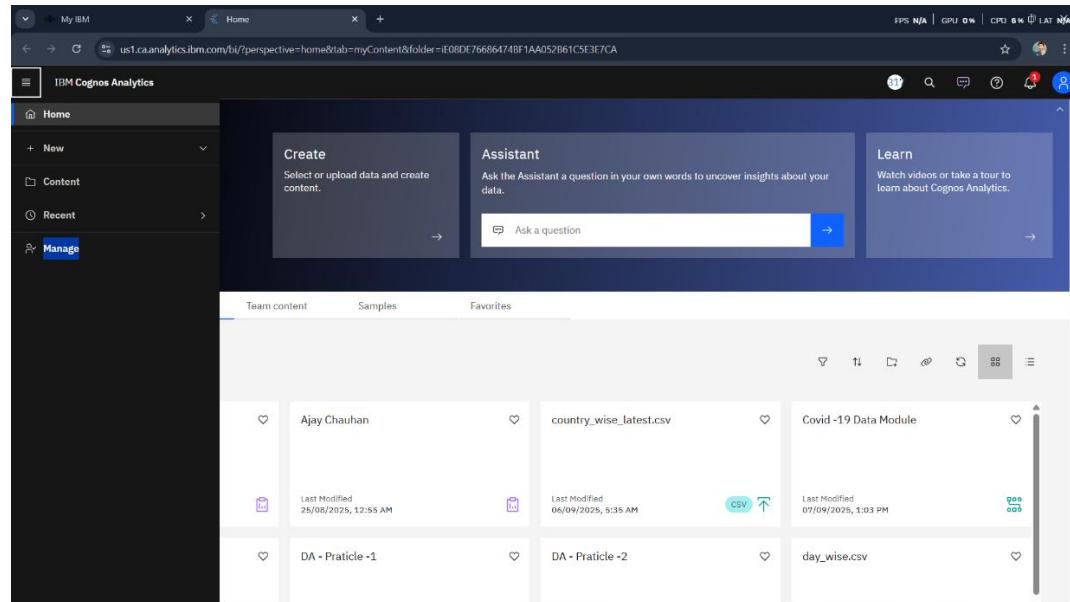
The screenshot shows the IBM Cognos Analytics home page. At the top, there are three main sections: 'Welcome, Ajay!', 'Create' (with a sub-section 'Select or upload data and create content'), and 'Assistant' (with a sub-section 'Ask the Assistant a question in your own words to uncover insights about your data'). Below these is a 'Learn' section with a sub-section 'Watch videos or take a tour to learn about Cognos Analytics.'.

The main content area displays a grid of items under the heading 'My content':

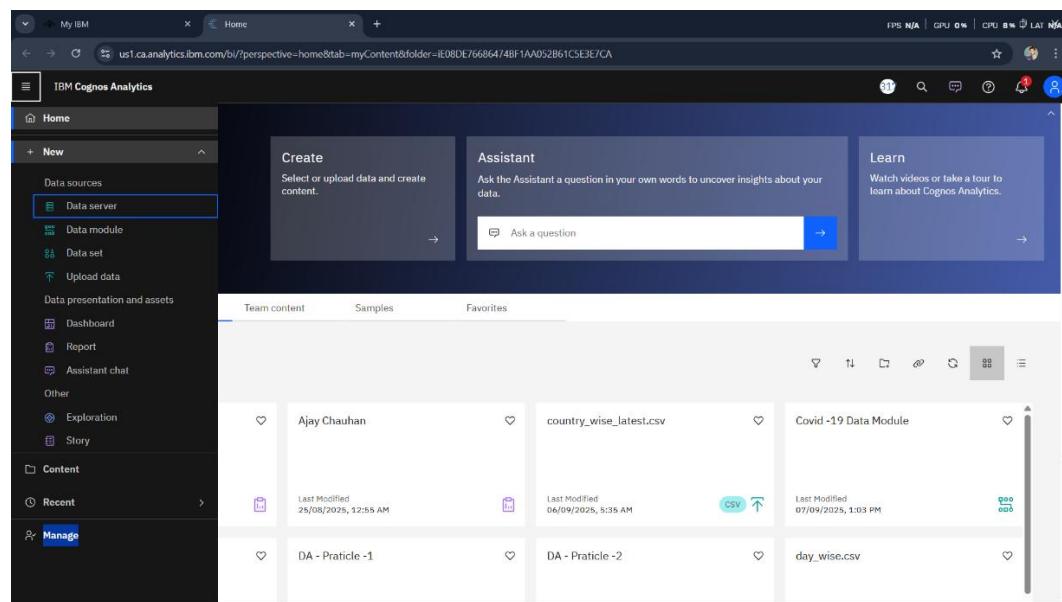
- Ajay
- Ajay Chauhan
- country_wise_latest.csv
- Covid -19 Data Module
- covid_19_clean_complete.csv
- DA - Pratice -1
- DA - Pratice -2
- day_wise.csv

Each item has a small preview, last modified date, and download/upload icons.

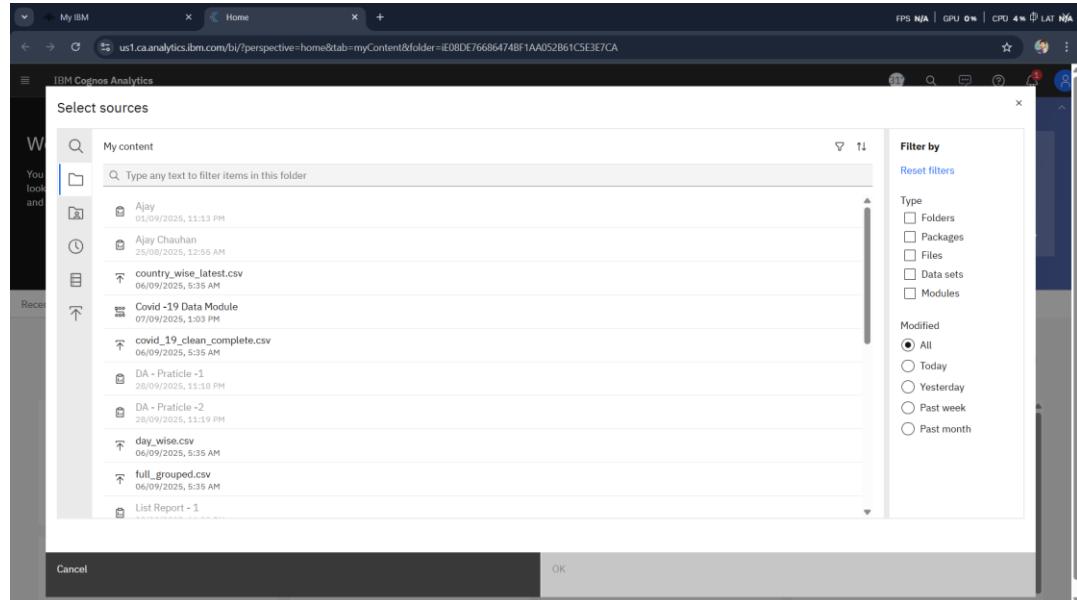
Step 7: - Click on the three lines (Open menu) icon at the top left corner in IBM Cognos homepage.



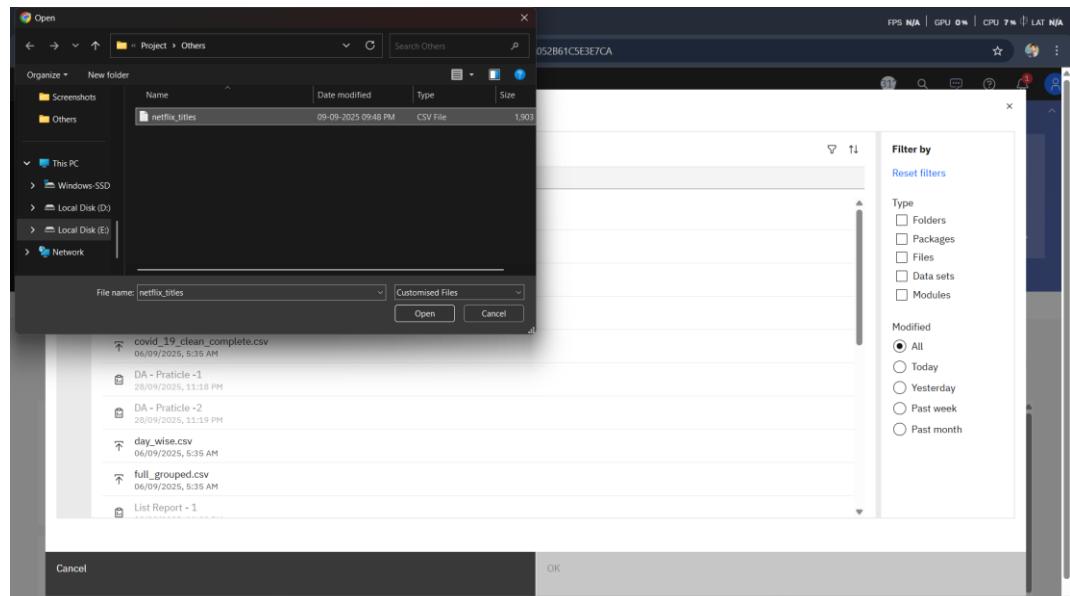
Step 8: - After the “Open menu” opens, click **+ New** icon.



Step 9: - After clicking the “New icon”, from the menu, click on the  Data module icon for uploading the dataset.



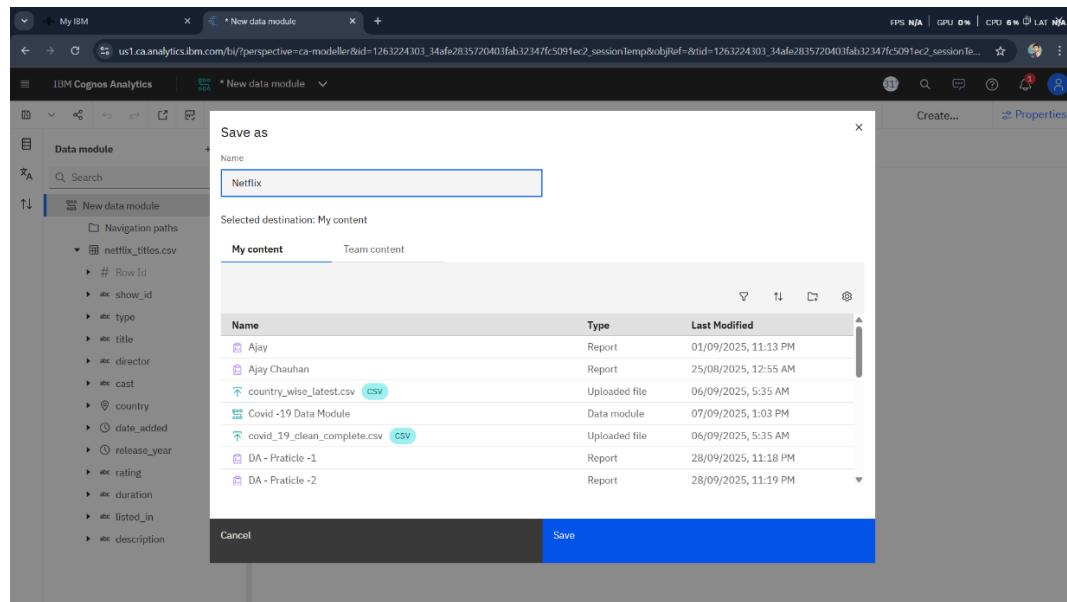
Step 10: - After clicking the “Data module” icon, click on the  icon. Find your dataset, then select the dataset and click on the  Open icon.



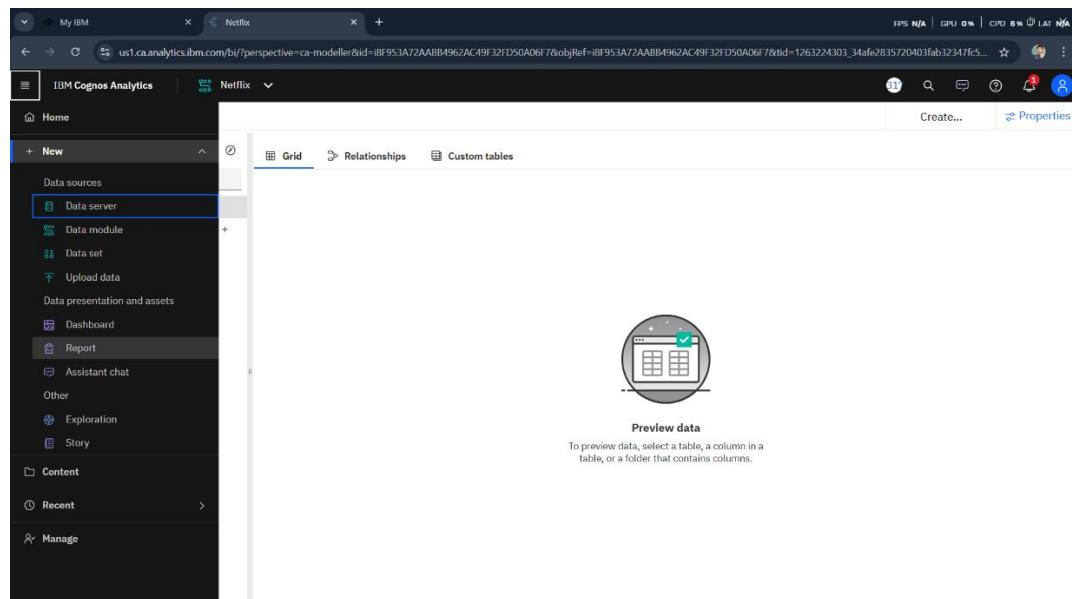
- After clicking “Open”, it will take some time, and then the dataset will be uploaded.

Step 11: - After the dataset is uploaded, click the “arrow” next to the “Save icon”

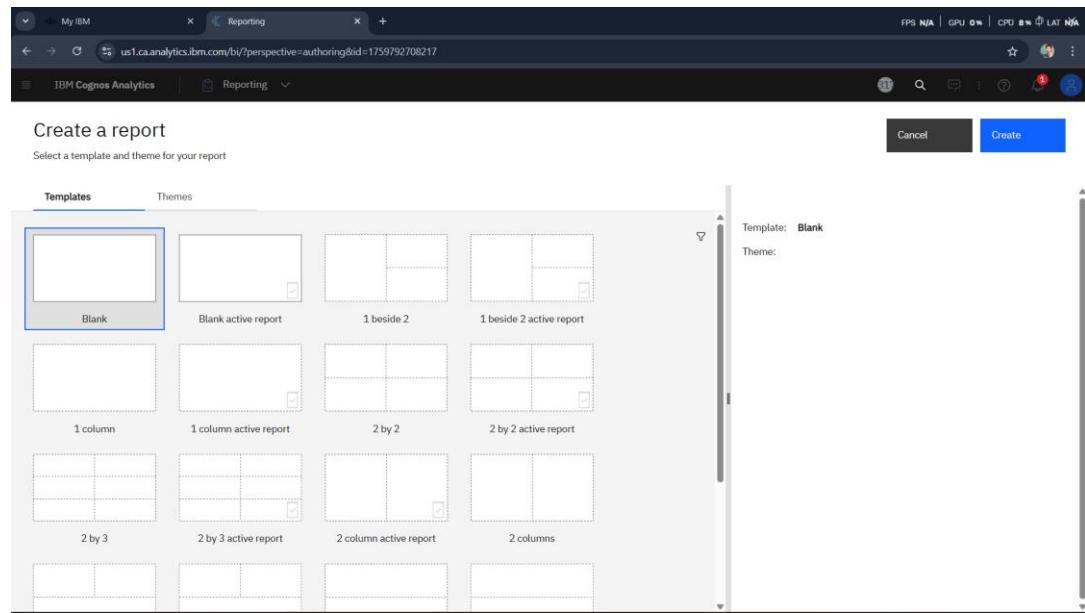
(just below the Open menu). Then click Save as... “Save As” icon, choose “My Content” icon, rename it (for example – Netflix) and click “Save” icon. Once you click Save, the Data Module will be saved successfully.



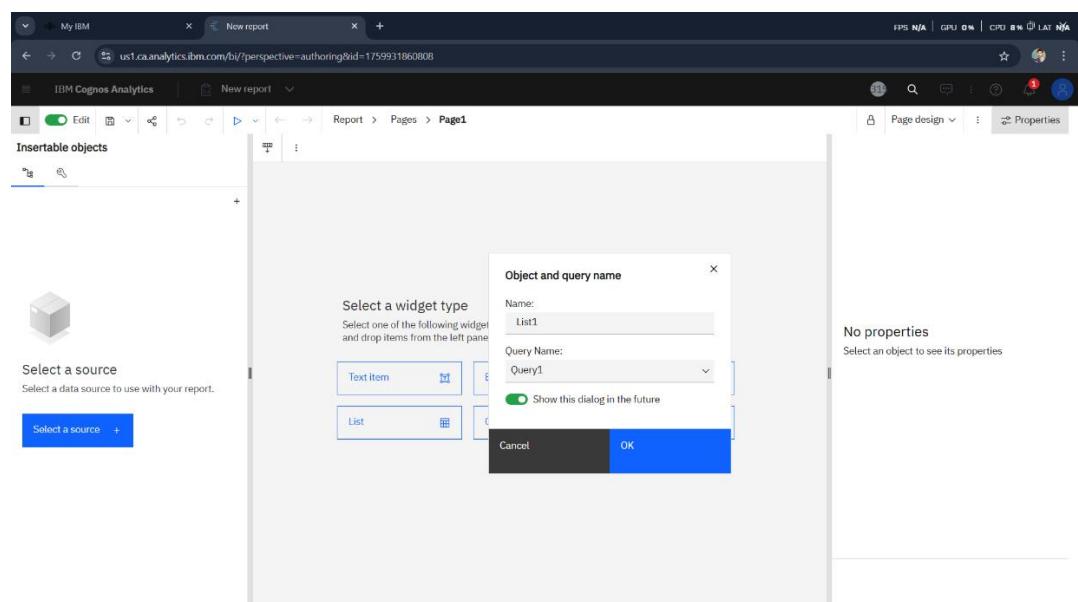
Step 12: - After saving the data module, click the (Open menu) icon in the top-left corner. From the menu, click + New icon, then select Report icon.”



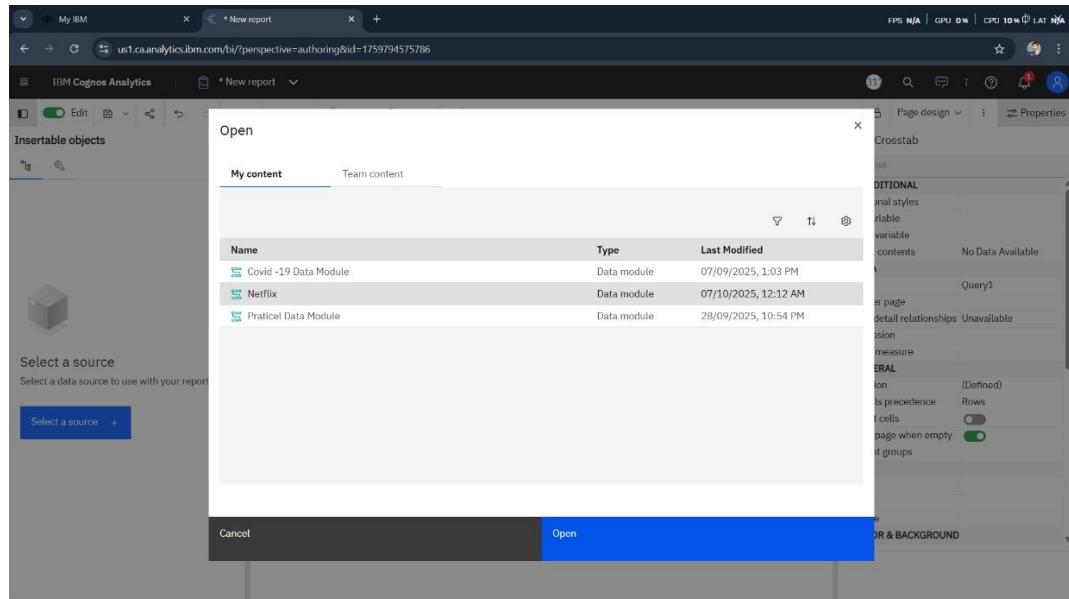
Step 13: - After clicking Report, check if Blank (Blank) is already selected — if it is, click Create icon; if not, choose first Blank, then click Create.



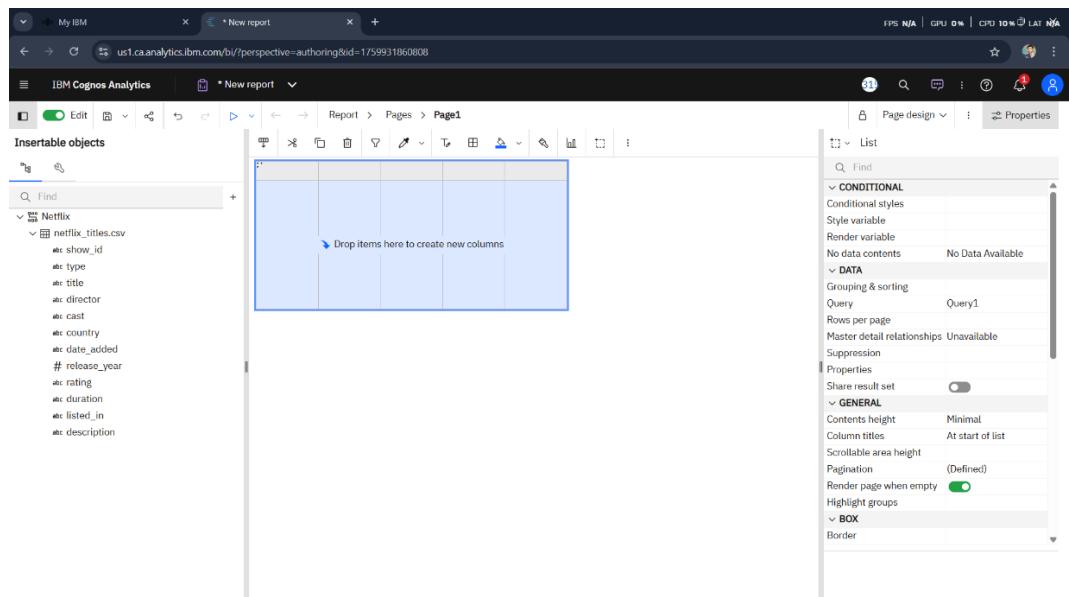
Step 14: - After clicking Create, the **Templates** dialog box appears. From the list of templates, select List (List) icon, and then click OK icon to proceed.



Step 15: - On the left side, click **Select a source** + (Select a Source) → Choose Data Module (Netflix) in “my content” → Click **Open** “Open” icon.



Step 16: - After the data loads, you will see your dataset fields (e.g., show_id, title, country, listed_in, release_year, etc.) in the **Data Items** pane.



Step 17: - Build the List-Report structure:

- You will see a list of data items on the left side, Double-Click on the country, then add.

The screenshot shows the IBM Cognos Analytics interface with a 'New report' titled 'Page1'. On the left, the 'Insertable objects' pane lists various data items under 'Netflix' and 'netflix_titles.csv'. In the center, a 'List' report structure is being built, with three '<country>' items selected and highlighted in blue. The properties panel on the right is set to 'List' mode, showing options for 'CONDITIONAL', 'DATA', 'GENERAL', and 'BOX' properties. The 'DATA' section is expanded, showing 'Query' set to 'Query1' and 'Rows per page' set to 'Unavailable'. The 'GENERAL' section has 'Contents height' set to 'Minimal' and 'Column titles' set to 'At start of list'.

- You will see a list of data items on the left side, Double-click on the listed_in field (Genre, then add.

This screenshot shows the same IBM Cognos Analytics interface as the previous one, but with a different selection in the 'Insertable objects' pane. The 'listed_in' field from the 'netflix_titles.csv' data item is now selected and highlighted in blue. The properties panel on the right remains the same, showing the 'List' report structure with 'Query1' as the query and 'Minimal' as the contents height.

- You will see a list of data items on the left side, Double-click on the show_id (or title), then add.

The screenshot shows the IBM Cognos Analytics interface. On the left, there's an 'Insertable objects' pane with a tree view of 'netflix_titles.csv' data items, including 'show_id', 'type', 'title', etc. In the center, there's a table with three columns: 'country', 'release_year', and 'show_id'. The 'country' column has a blue border, indicating it's selected. On the right, there's a 'Properties' panel open for the selected 'country' column. The 'List' section is active, showing settings like 'Query' (Query1) and 'Rows per page'. The 'GENERAL' section is expanded, showing 'Contents height' set to 'Minimal' and 'Column titles' set to 'At start of list'. The 'BOX' section is also expanded, showing 'Border' settings.

- After adding the country, listed_in, and show_id, the display appears as shown same as above.

Step 18: - After adding columns, click the country column, and in the toolbar, click the icon to apply the group to the country column.

- After applying the group, the display looks like this.

This screenshot is similar to the previous one, but the 'country' column now has a thick blue border around its entire cell, indicating it is a grouped column. The rest of the interface, including the 'Insertable objects' pane, the table structure, and the properties panel, remains the same.

Step 19: - After adding columns, click the listed_in column, and click the icon to apply the group to the listed_in column.

- After applying the group, the display looks like this.

The screenshot shows the IBM Cognos Analytics report editor interface. A table is being designed with three columns: country, release_year, and show_id. The 'release_year' column has a blue border, indicating it is selected. The 'listed_in' column is collapsed under the 'country' column. On the left, the 'Insertable objects' pane shows a tree structure for 'netflix_titles.csv' with various fields like show_id, type, title, director, cast, country, date_added, release_year, rating, duration, and listed_in. On the right, the 'Properties' panel is open, showing settings for the selected 'release_year' column, including 'Source type' set to 'Data item label' and 'Data item label' set to 'release_year'. The properties panel also includes sections for Conditional, Text source variable, Data, Box, Color & background, and Font.

Step 20: - Click any value in show_id's, click the icon, and click Count. Apply the count summary to the show_id column.

The screenshot shows the same report editor interface. The 'show_id' column is now selected, indicated by a blue border. A context menu is open over the 'show_id' column header, listing options such as Total, Count, Count distinct, Average, Minimum, Maximum, Median, Standard deviation, Variance, Calculated, and Custom... The 'Count' option is highlighted. The 'Properties' panel on the right remains visible, showing the same configuration for the 'release_year' column as in the previous step.

- After applying the summary, the display looks like this.

The screenshot shows the IBM Cognos Analytics interface. A report page titled "Page1" is displayed. On the left, there's an "Insertable objects" pane with a tree view of data sources and objects. The main area shows a list object with three columns: "country", "release_year", and "show_id". The "show_id" column contains multiple instances of the expression "<Count(show_id)>". To the right, the "Properties" panel is open, showing various settings for the list object, such as conditional styles and general properties like "Contents height" set to "Minimal".

Step 21: - After applying the summary, now change the “count(show_id)” to “Number of titles”.

- For remaining the count(show_id) to Number of titles.
- Select the “count(show_id)”.

This screenshot shows the same report page after the changes made in Step 21. The "show_id" column now displays the text "Number of titles" instead of the count expressions. The properties panel on the right shows the "Text source variable" section where "Source type" is set to "Data item value" and the value is "Count(show_id)". Other properties like "Data format" and "Box" are also visible.

Step 22: - After that, click Source type. After clicking the show arrow icon, then click **abc Text** text.

The screenshot shows the IBM Cognos Analytics report design interface. A list cell containing data items like '<country>' and '<release_year>' is selected. A context menu is open over one of the data items, specifically the '<show_id>' item under '<release_year>'. The menu path 'Source type' is highlighted, and the 'Text' option is selected. The properties panel on the right shows the 'Source type' section set to 'Text'.

- After clicking the text, the display looks like this.

The screenshot shows the same report design interface after the source type has been changed. The context menu is no longer open, and the data item '<show_id>' now displays the text 'Double-click to edit text' instead of the original '<show_id>' placeholder.

Step 23: - Click on the text. After clicking, show three dots. Click on three Dots. After clicking, type “Number of titles”. Click OK. Then rename.

The screenshot shows the IBM Cognos Analytics interface. A 'Text' dialog box is open in the center, containing the text 'Number of titles'. This dialog is part of a larger interface where a 'List cell' is being edited. The properties panel on the right is set to 'Text' source type with 'Text' selected. The main workspace shows a hierarchical query tree with nodes like 'country', 'release_year', and 'show_id'.

Step 24: - After that, click the icon.

The screenshot shows the IBM Cognos Analytics interface with a color palette dialog box open. The dialog displays various color swatches, including 'Basic colors' (Black, White, Red, Green, etc.) and a 'Custom color' section with a hex code '#FFFF00' highlighted. The background shows the report editor with a 'List cell' being styled.

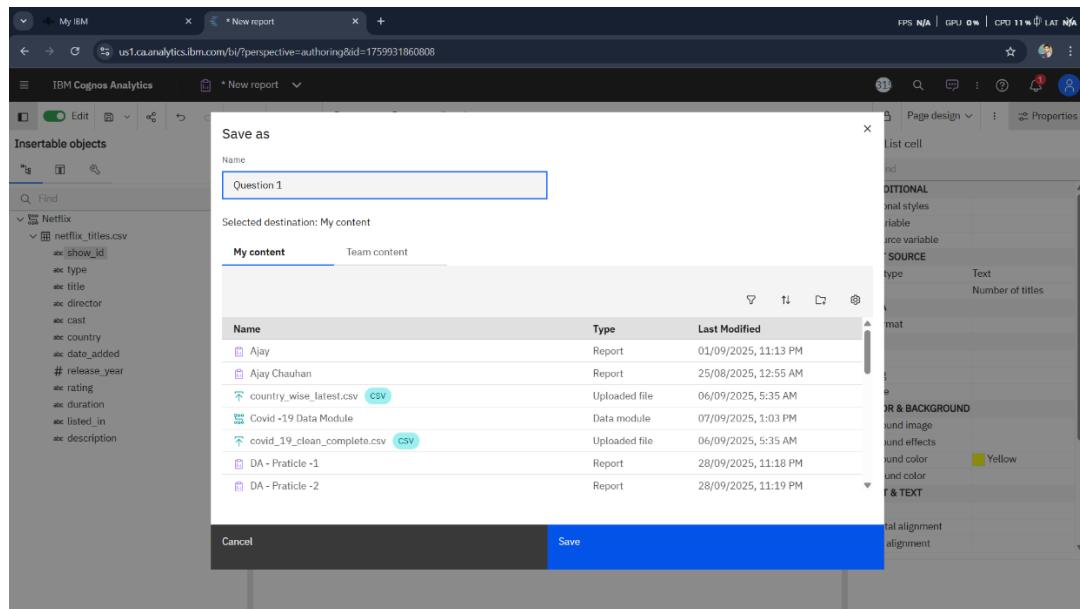
Step 25: - Choose yellow, then change the background Colour is yellow. After choosing yellow the display.

The screenshot shows the IBM Cognos Analytics interface. On the left, there's an 'Insertable objects' sidebar with various data sources and objects listed. In the center, there's a table structure with columns: country, release_year, and show_id. Several cells in the table are highlighted with yellow backgrounds. To the right of the table is a 'Properties' panel. Under the 'List cell' section, the 'Color & Background' tab is selected, showing 'Background color' set to 'Yellow'. The 'Source type' is listed as 'Text' with the value 'Number of titles'. The 'Text' section also shows 'Text' set to 'Number of titles'. The 'Font' section shows 'Font' set to 'Normal'.

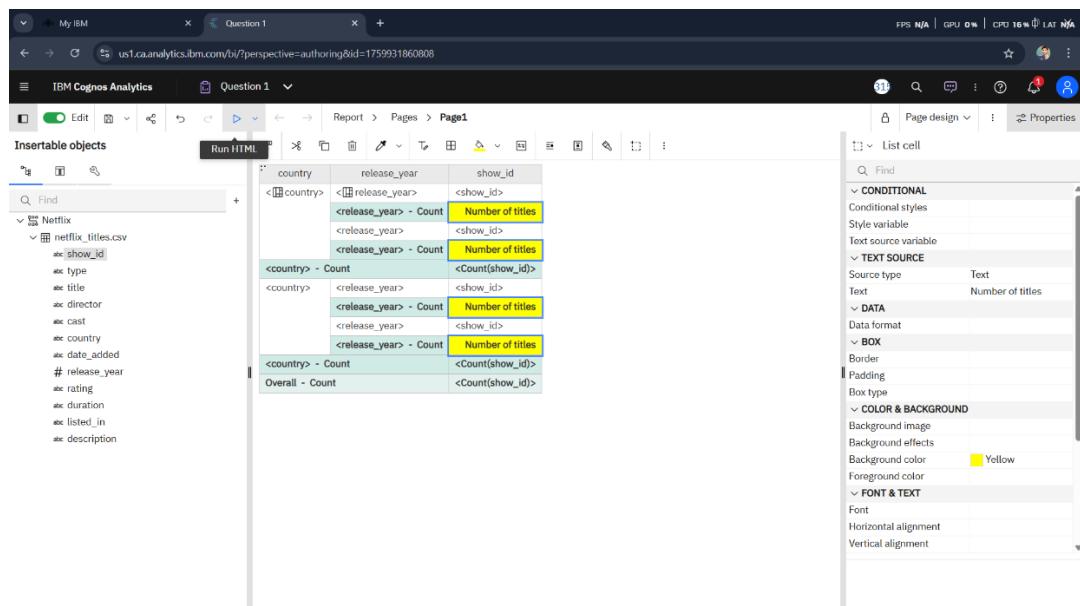
Step 26: - To save the report, click the small arrow next to the Save icon (beside Edit). Select Save As... "Save as".

This screenshot is similar to the previous one, showing the IBM Cognos Analytics interface. The 'Insertable objects' sidebar and the table structure are the same. However, the 'Edit' button in the toolbar has a small downward arrow icon to its right, indicating it's a dropdown menu. A dropdown menu is open, and the 'Save As...' option is highlighted with a blue selection bar. The rest of the menu options are visible but not selected. The 'Properties' panel on the right is identical to the previous screenshot, showing the 'Color & Background' tab with 'Background color' set to 'Yellow'.

Step 27: - After clicking on the Save As, they open a Save As box, and now choose My content. Enter the name of the report (“Question-01”), then click **Save** icon.



Step 28: - After saving, to run the report, click the Run  icon, which is just below the report name.



- After running, show the report is “Number of titles” with country-wise.

IBM Cognos Analytics - New report

country release_year show_id

, France, Algeria	2014	s366
	2014 - Count	Number of titles
		1
, South Korea	2021	s194
	2021 - Count	Number of titles
		1
Argentina	1985	s304
	1985 - Count	Number of titles
		1
	2004	s1877
	2004 - Count	Number of titles
		1
	2015	s4431
	2015 - Count	Number of titles
		1
	2017	s3824
		s4112
	2017 - Count	Number of titles
		1
	2018	s3376
		s4174
		s4782
		s4850
		s4941
		s4979

Top Page up Page down Bottom

IBM Cognos Analytics - New report

s852	
s853	
s855	
s86	
s862	
s87	
s889	
s89	
s898	
s913	
s924	
s94	
s958	
s961	
s962	
s964	
s965	
s966	
s968	
2021 - Count	Number of titles
- Count	629
Overall - Count	5000

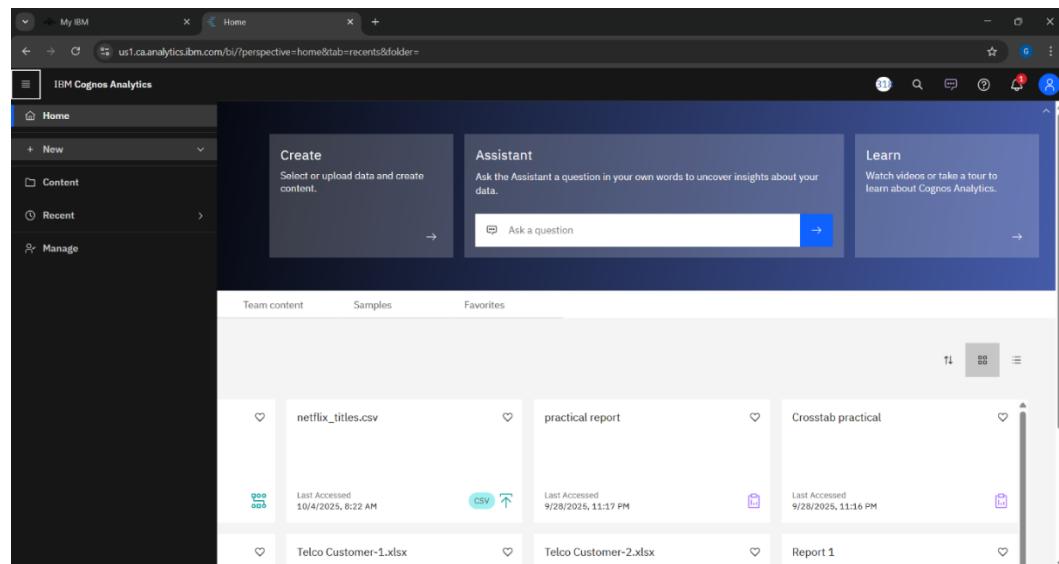
Top Page up Page down Bottom

PROJECT

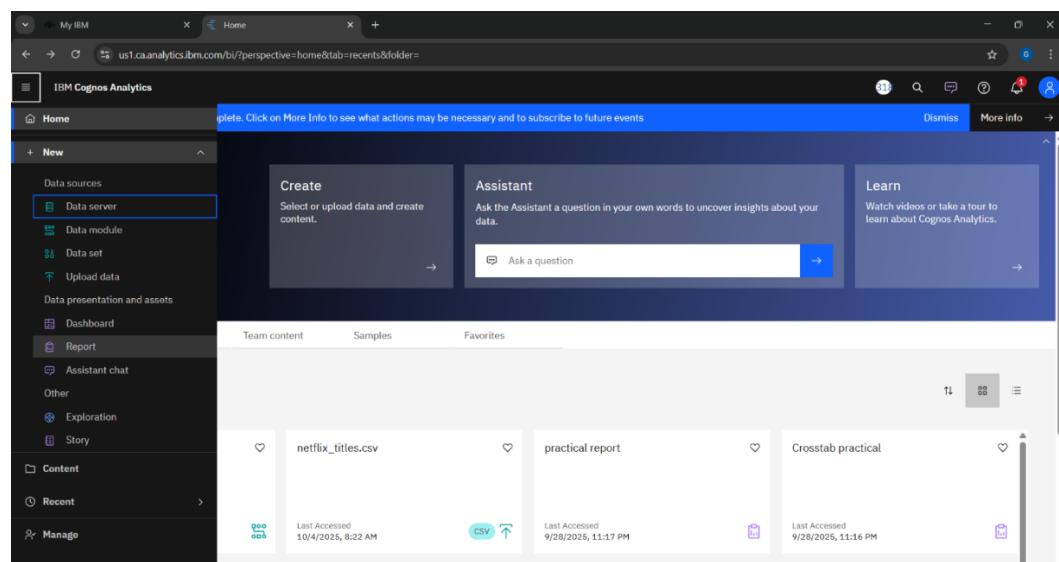
Problem Statement - 02: - Create a tabular summary showing the number of titles released per year using the “release_year” column.

Solution:

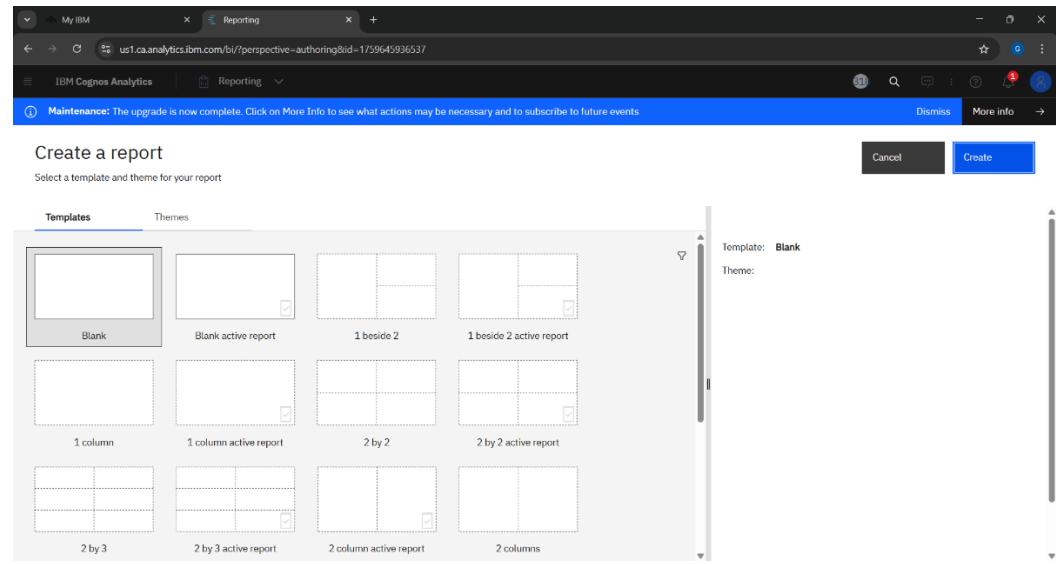
Step 1: - After creating the data module, click on  (open menu) and select New.



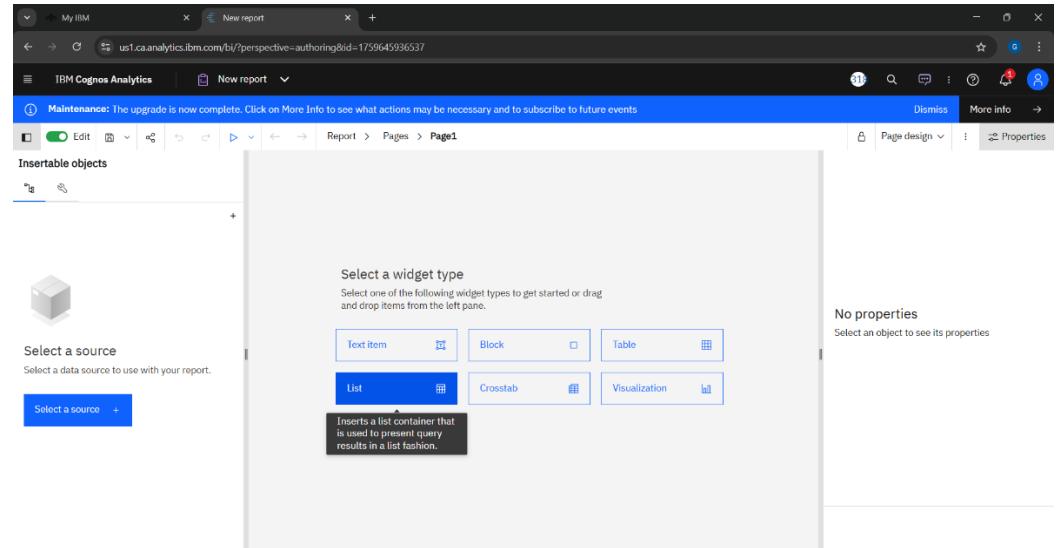
Step 2: - Select Report.



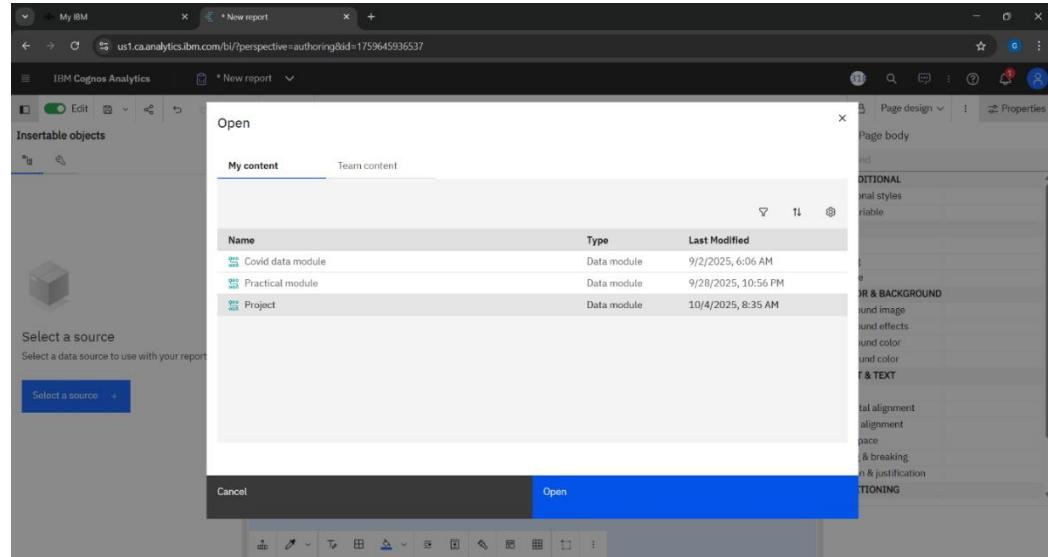
Step 3: - Select the style you want for your Report (by default, it is set as Blank) and click on Create option at top right corner.



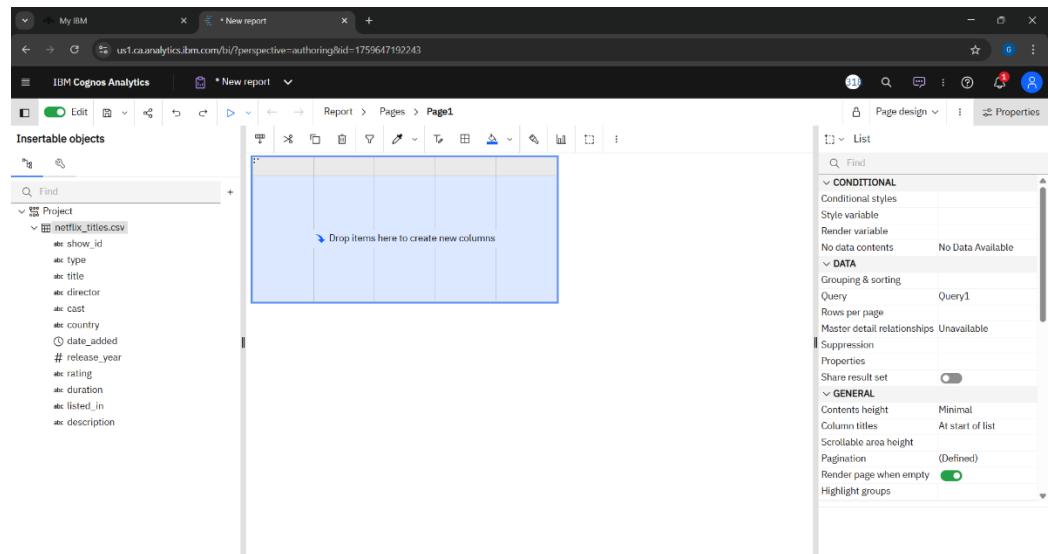
Step 4: - Select List from widget type for your Report (You can select any widget type you want) and click OK.



Step 5: - Click on Select a source (left side) to add data module. Click on My content option and select the data module (E.g. Project) then click Open.



Step 6: - After selecting the data module, it will appear on the left side. Click on the icon to expand the data in the dataset.



Step 7: - Double-click on the title you want to add to your Report.

The screenshot shows the IBM Cognos Analytics interface. On the left, there's a sidebar titled 'Insertable objects' with a tree view of a project named 'Project'. Under 'Project', there are several items like 'show_id', 'type', 'title', etc. A specific item, '# release_year', is highlighted with a red box. In the center, there's a table with columns: 'show_id', 'title', 'type', and 'release_year'. The 'release_year' column contains three rows: '<show_id> <title> <type> <release_year>', '<show_id> <title> <type> <release_year>', and '<show_id> <title> <type> <release_year>'. On the right, there's a 'Properties' panel open, showing settings for a 'List' object. The 'DATA' section is expanded, showing 'Query' set to 'Query1' and 'Rows per page' set to 'Unavailable'. The 'GENERAL' section shows 'Contents height' set to 'Minimal' and 'Column titles' set to 'At start of list'. The 'Font & Text' section at the bottom is also visible.

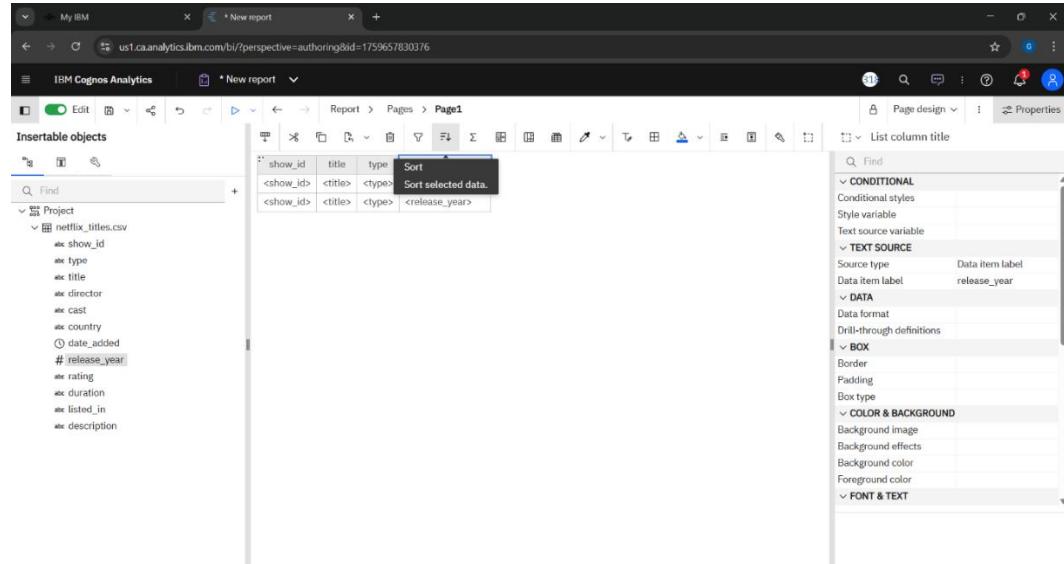
Step 8: - Select the "release_year".

Step 9: - Click on the icon to group the same years from different rows into a single row.

This screenshot is similar to the previous one but focuses on the 'release_year' column. The 'release_year' column header is highlighted with a red box. A tooltip appears over the column header, reading 'Group / Ungroup' and 'Group or ungroup selected data in a list.' To the right, the 'Properties' panel is open, showing the 'List column title' section. Under 'Text source variable', 'Data item label' is set to 'release_year'. The 'BOX' section is expanded, showing 'Border', 'Padding', and 'Box type'. The 'Color & Background' section is also partially visible. The 'Font & Text' section at the bottom is visible.

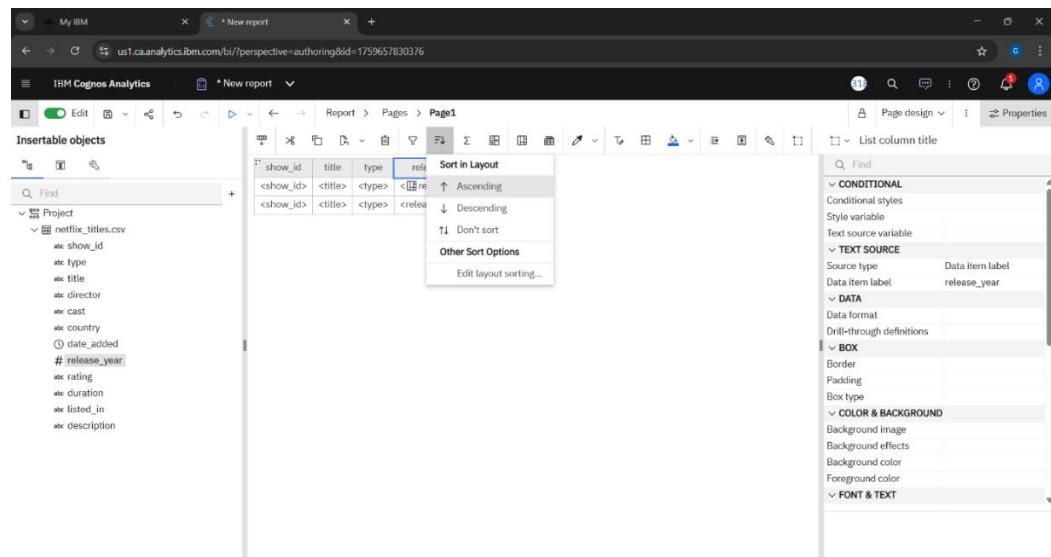
GROUP NUMBER: 1

Step 10: - Click on the icon  to sort the data (Ascending or Descending) to see trends by year.



The screenshot shows the IBM Cognos Analytics interface. A table is displayed with columns: show_id, title, type, <show_id>, <title>, <type>, <show_id>, <title>, <type>, <release_year>. A context menu is open over the last column, labeled 'Sort', with options: Sort selected data., Sort in Layout, Ascending, Descending, Don't sort, and Other Sort Options.

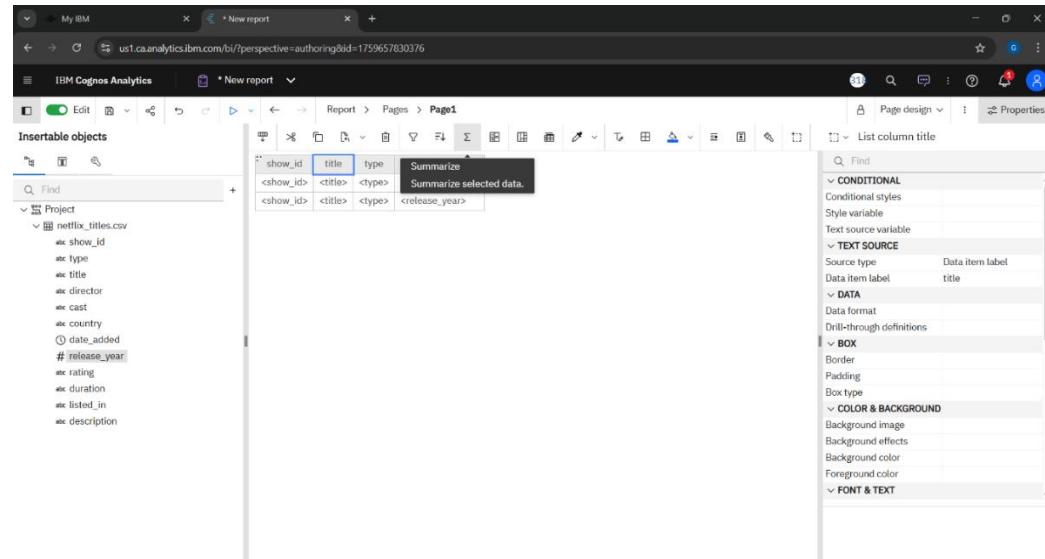
Step 11: - For now, Select Ascending.



The screenshot shows the same IBM Cognos Analytics interface as before, but the 'Sort in Layout' option is highlighted in the context menu. The 'Ascending' option is also highlighted, indicating it has been selected.

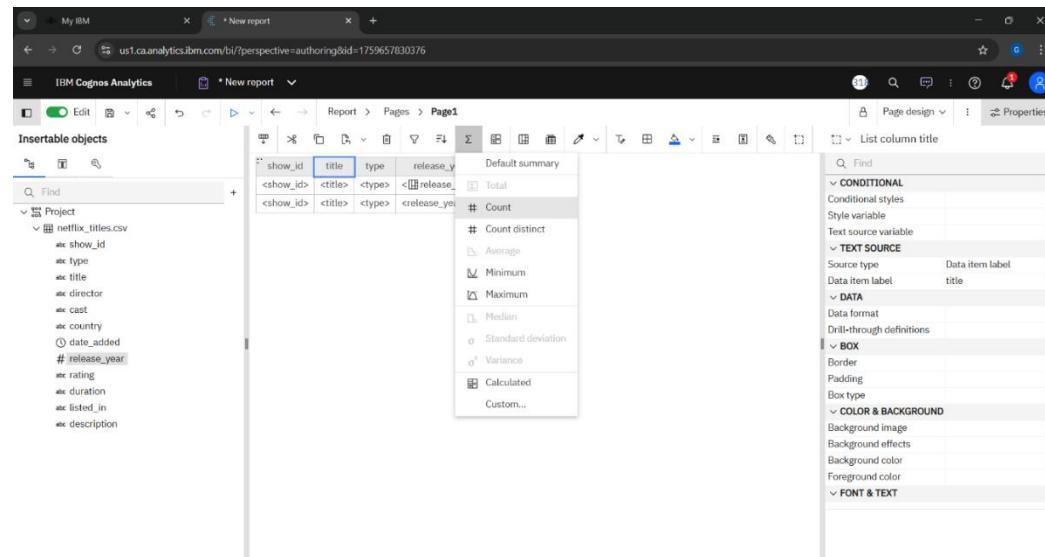
Step 12: - Now select the title

Step 13: - Click on the icon  (Summarize).



The screenshot shows the IBM Cognos Analytics interface with a report titled "New report". In the center, there is a table with columns: show_id, title, type, and release_yr. A context menu is open over the "title" column, with the "Summarize" option highlighted. To the right of the table, the "Properties" panel is visible, showing settings for the "title" data item under the "Text source variable" section.

Step 14: - Select Count to count the numbers of titles release per year.



The screenshot shows the same IBM Cognos Analytics interface as before. The context menu over the "title" column now has the "Count" option selected. This menu also includes other options like Average, Minimum, Maximum, Median, Standard deviation, Variance, and Calculated.

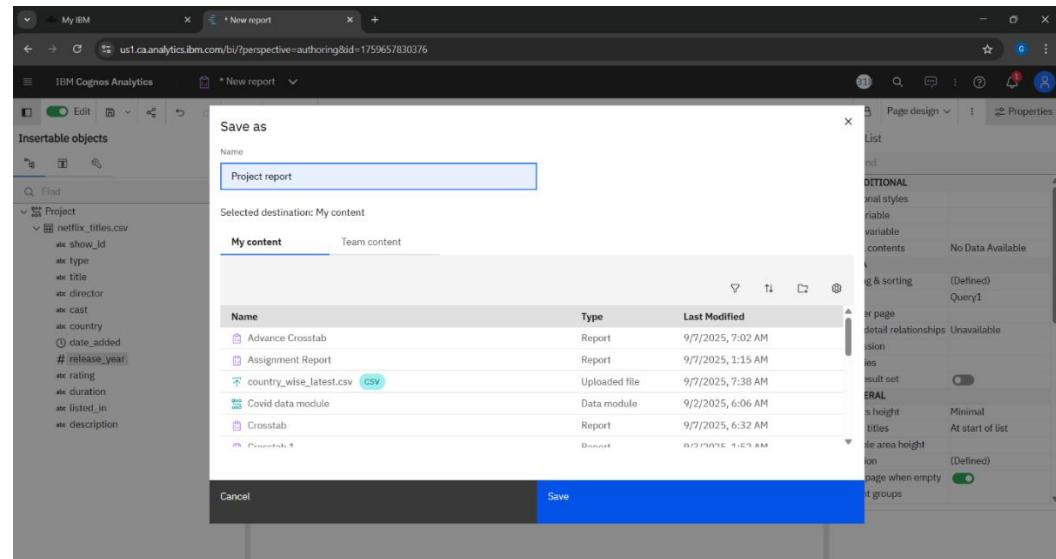
Step 15: - After that your report will look like this

The screenshot shows the IBM Cognos Analytics interface. On the left, there's a sidebar titled 'Insertable objects' with a tree view of a project named 'Project'. Under 'Project', there's a folder 'netflix_titles.csv' containing items like 'show_id', 'type', 'title', 'release_year', etc. A search bar labeled 'Find' is also present. The main area displays a 'List' report page titled 'Page1'. It contains a table with four columns: 'show_id', 'title', 'type', and 'release_year'. The table has four rows: the first row is a header with the column names; the second row is a summary row with the formula '<show_id> - Count <Count(title)>'; the third row is another summary row with the formula '<show_id> - <Count(title)>'; and the fourth row is an overall summary row with the formula 'Overall - Count <Count(title)>'. To the right of the report is a 'Properties' panel for the 'List' object. The 'GENERAL' section is expanded, showing settings like 'Contents height: Minimal', 'Column titles: At start of list', and 'Pagination: (Defined)'. Other sections like 'CONDITIONAL' and 'DATA' are also visible.

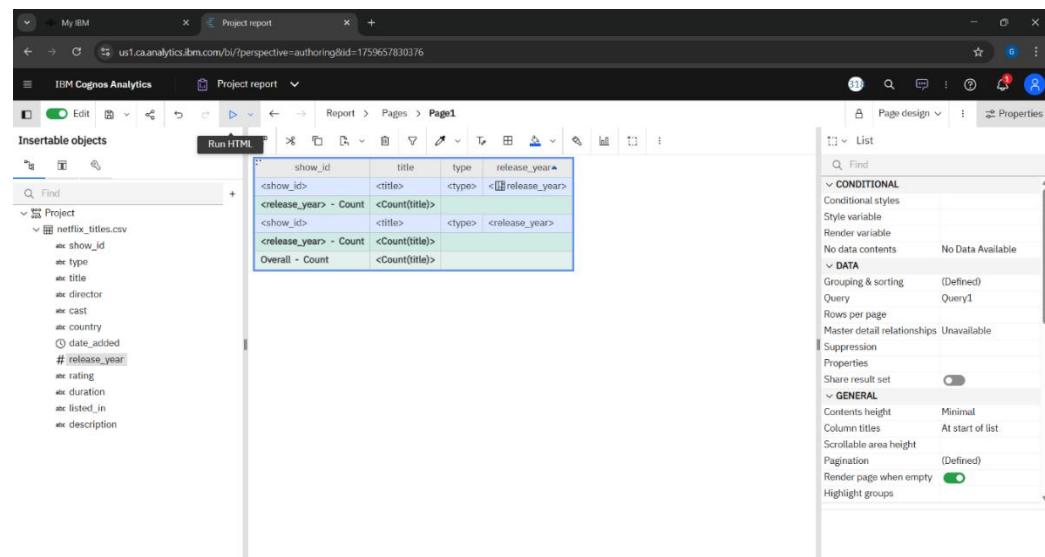
Step 16: - Click on the save icon (under the IBM Cognos Analytics) to save the report.

This screenshot is identical to the one above, showing the IBM Cognos Analytics interface with the 'List' report page. However, the 'Save' button in the toolbar at the top left is now highlighted in black, indicating it is selected or about to be clicked. The rest of the interface, including the sidebar, report content, and properties panel, remains the same.

Step 17: - Give a name to your report and save it in My content.



Step 18: - Now click on the run icon (under the name of your report) to run the report.



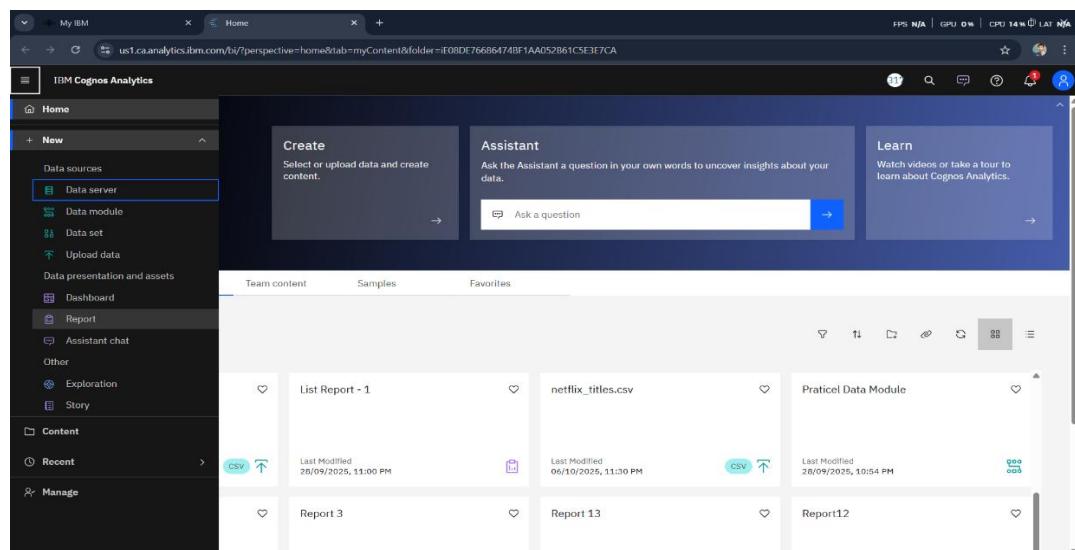
Step 19: - It's done. Now you can see the number of titles release per year and how the quantity of Netflix content has changed over time

PROJECT

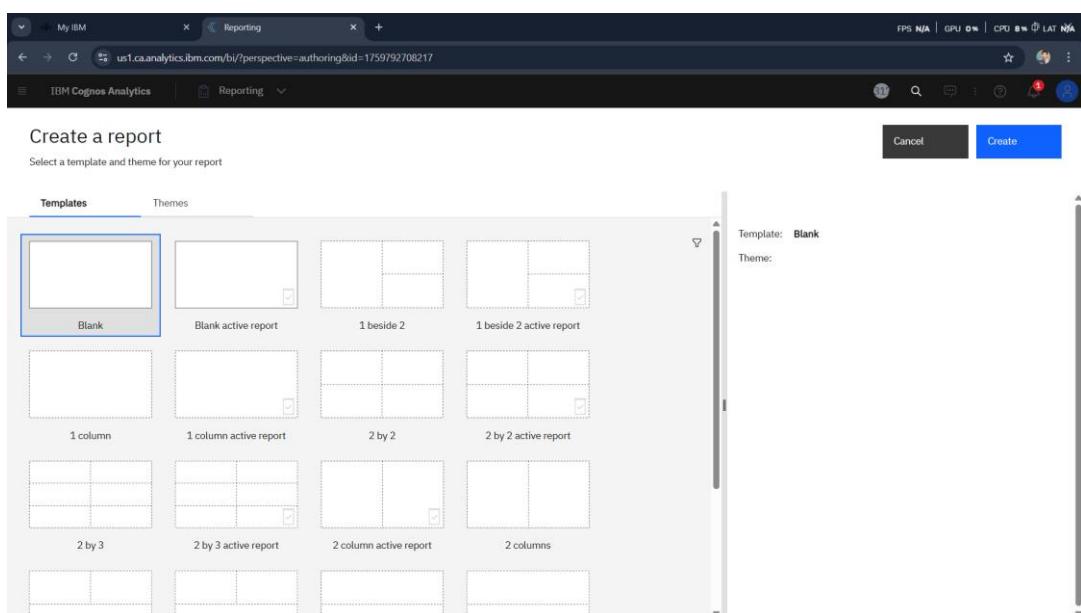
Problem Statement - 03: - Show the number of Netflix titles released each year.

Solution:

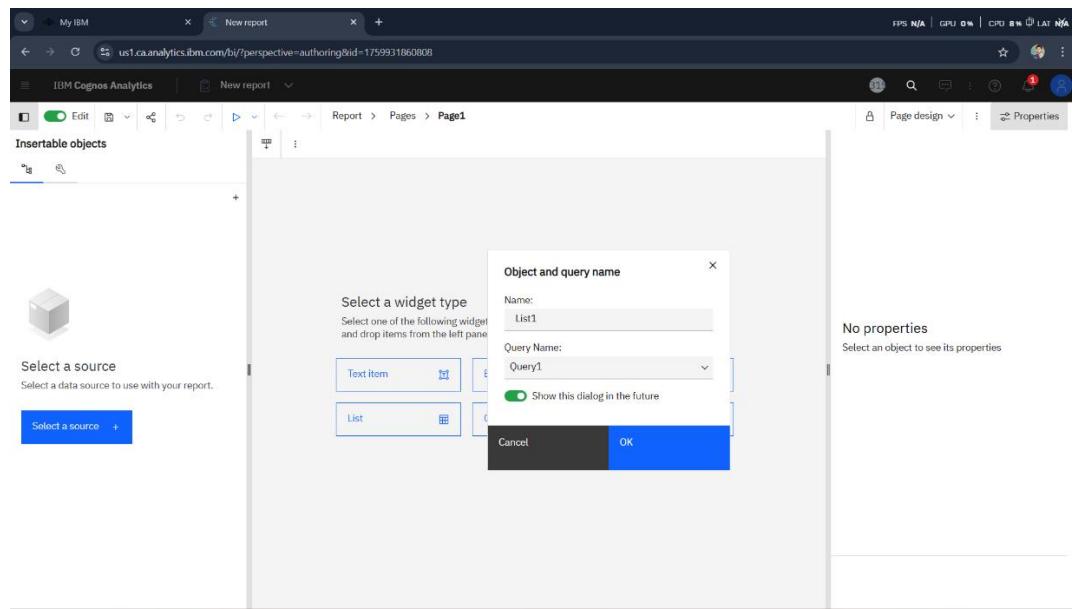
Step 1: - Click on the three lines (Open menu) icon at the top left corner in IBM Cognos homepage.



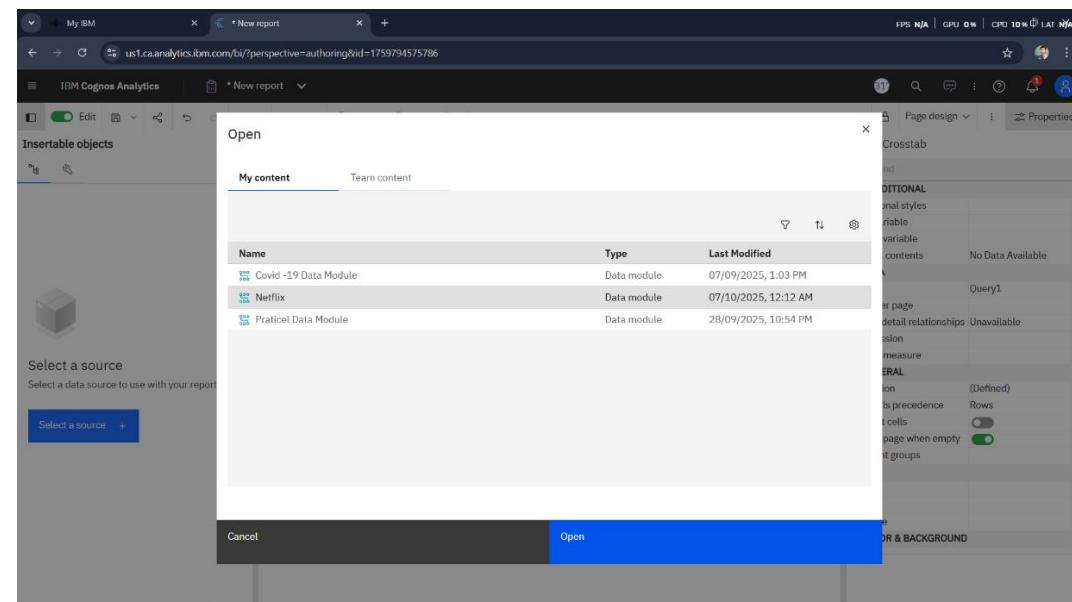
Step 2: - After clicking **Report**, check if **Blank (Blank)** is already selected — if it is, click **Create** icon; if not, choose first **Blank**, then click **Create**.



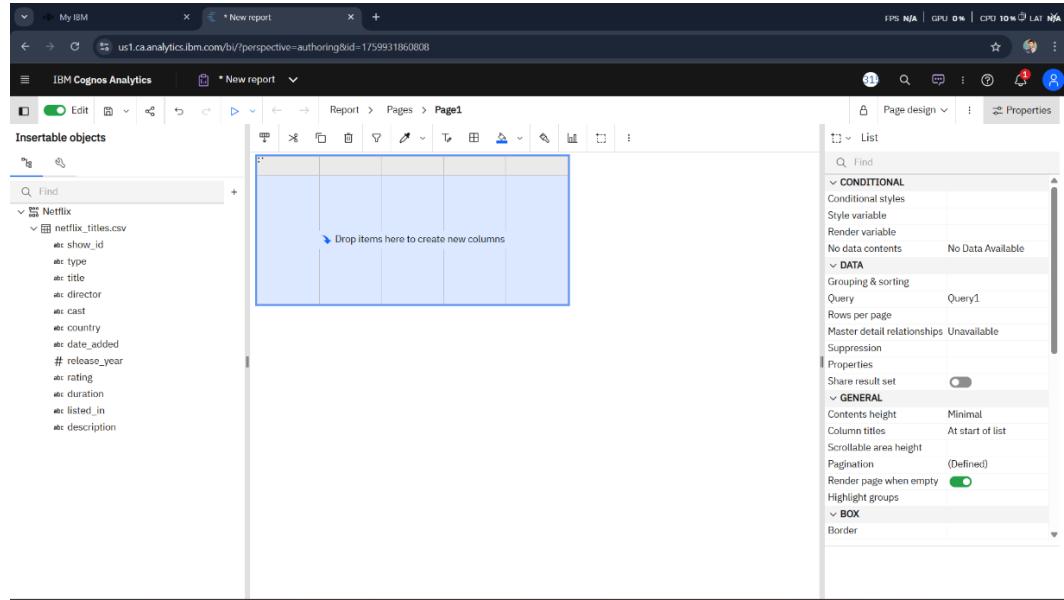
Step 3: - After clicking **Create**, the **Templates** dialog box appears. From the list of templates, select **List** icon, and then click **OK** icon to proceed.



Step 4: - On the left side, click **Select a source +** (Select a Source) → Choose Data Module (Netflix) in “my content” → Click **Open** “Open” icon.



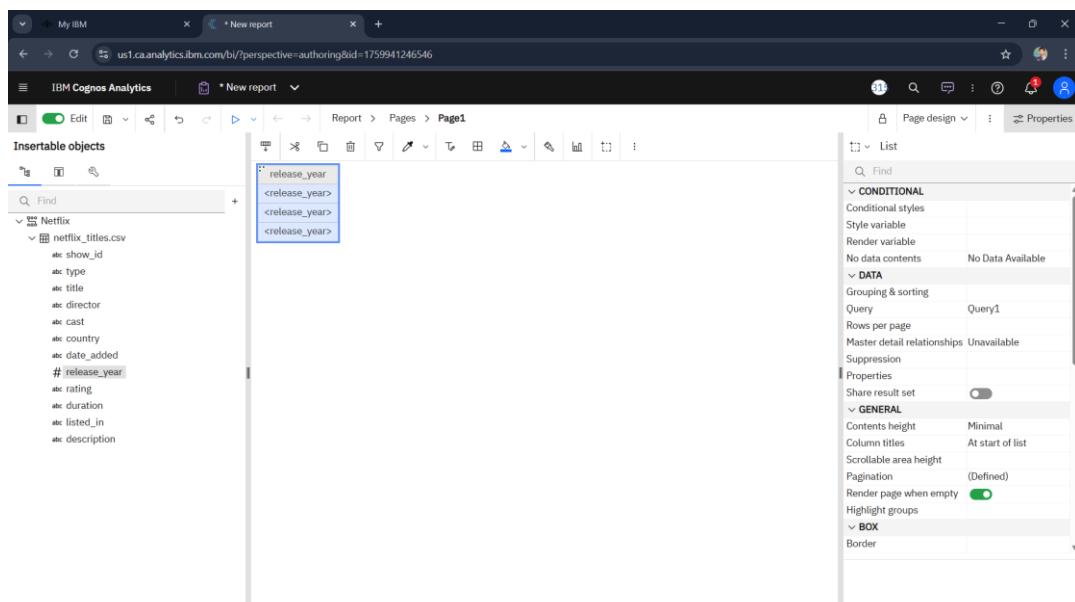
- Step 5:** - After the data loads, you will see your dataset fields after clicking on the arrow
 > to expand the category (e.g. release_year, show_id) in the **Data Items** pane.



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Insertable objects' pane is open, displaying a tree structure of dataset fields. Under the 'Netflix' dataset, the 'netflix_titles.csv' file is expanded, showing fields like show_id, type, title, director, cast, country, date_added, release_year, rating, duration, listed_in, and description. To the right of the interface is a report page titled 'Page1'. The page design area contains a single table with four columns and one row, with the placeholder text 'Drop items here to create new columns'. On the far right, the 'Properties' panel is open, showing settings for a 'List' item. The 'GENERAL' section is selected, with 'Contents height' set to 'Minimal' and 'Column titles' set to 'At start of list'. Other sections like 'CONDITIONAL', 'DATA', and 'BOX' are also visible.

Step 6: - Build the List-Report structure:

- You will see a list of data items on the left side. Double-click on the `# release_year`, then add.



This screenshot shows the same IBM Cognos Analytics interface as the previous one. The 'Data Items' pane on the left now has the `# release_year` item selected, indicated by a blue border around its entry in the tree. The rest of the interface, including the report page and properties panel, remains the same.

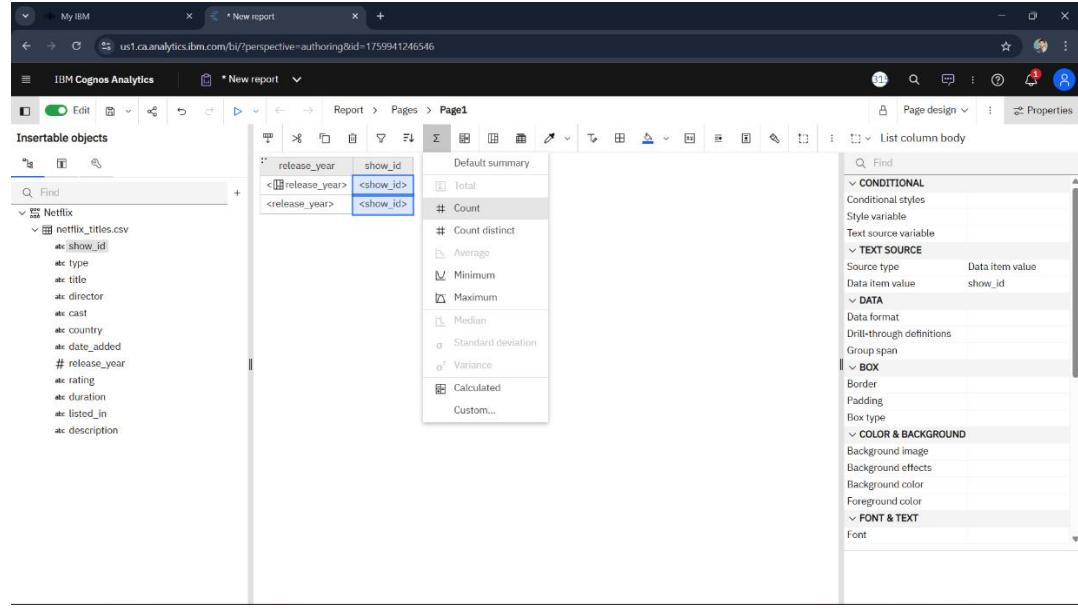
- You will see a list of data items on the left side. Double-click on the abc `show_id`, then add.

- After adding the country, release_year, and show_id, the display appears as shown same as above.

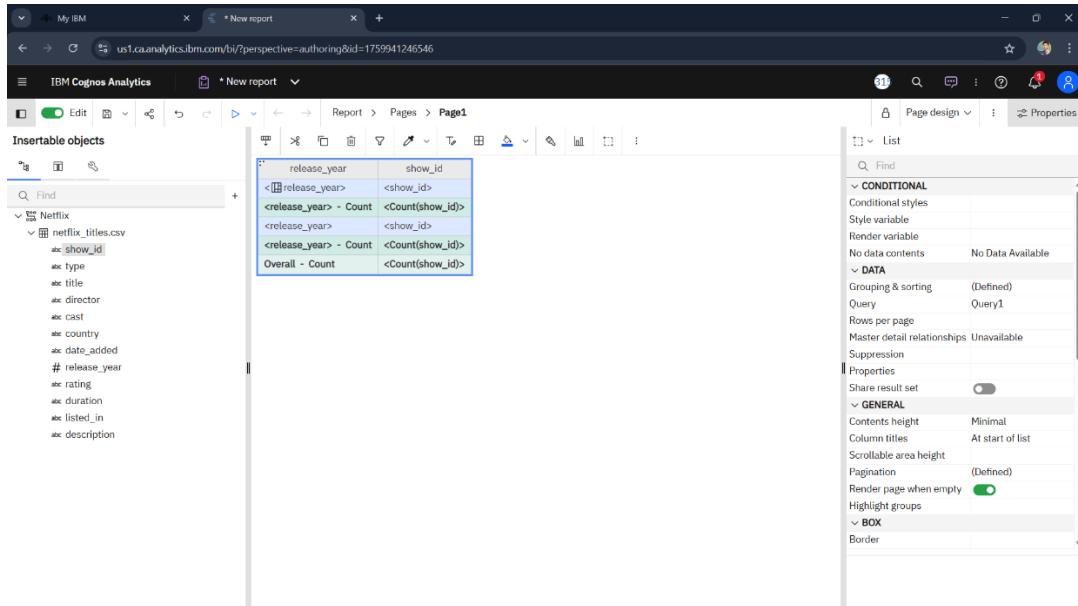
Step 7: - After adding columns, click the “release_year” column, and in the toolbar, click the icon to apply the group to the country column.

- After applying the group, the display looks like this.

Step 8: - Click any value in show_id's, click the Σ icon, and click Count. Apply the count summary to the show_id column.



○ After applying the summary, the display looks like this.



Step 9: - After applying the summary, now change the “show_id” to “Number of titles”.

- For remaining the (show_id) to the “Number of titles”.
- Select the “show_id”.

The screenshot shows the IBM Cognos Analytics interface. On the left, there's an 'Insertable objects' pane with a tree view of data sources and objects. In the center, a list of data items is displayed, including 'release_year', 'show_id', and various count expressions like '<release_year> - Count'. On the right, the 'Properties' panel is open, specifically the 'List column body' section. Under 'Source type', the dropdown menu is open, showing options like 'Data item value', 'Text', 'Data item label', and 'Report expression'. The 'Data item value' option is currently selected.

Step 10: - After that, click on 'Source type'. After clicking the show arrow icon, then click Text text.

This screenshot is similar to the previous one but shows a different state. The 'Source type' dropdown in the properties panel has been closed, and the 'Text' option is now selected. The 'Text' field contains the placeholder text '[i] Data item value'.

Step 11: - Click on the text. After clicking, show ⋮ three dots. Click on ⋮ three Dots. After clicking, type “Number of titles”. Click OK. Then rename.

The screenshot shows the IBM Cognos Analytics interface. A 'Text' dialog box is open in the center, containing the text 'Number of Titles'. This text is being edited in a cell within a data grid. The data grid contains several rows of data, with the first row highlighted in blue. The properties panel on the right is visible, showing settings for the 'Text' source variable, including 'Source type: Text' and 'Text: Number of Titles'.

- Display is show like this.

The screenshot shows the IBM Cognos Analytics interface. The 'Text' dialog box is now closed, and the value 'Number of Titles' is displayed in the cell where it was previously edited. The data grid and properties panel are visible in the background.

Step 12: - After that, now change the “count(show_id)” to “Netflix Titles Released Per Year”.

- For remaining the “count(show_id)” to the “Number of titles”.
- Select the “count(show_id)”.

The screenshot shows the IBM Cognos Analytics interface. On the left, there's an 'Insertable objects' tree with 'netflix_titles.csv' selected. In the center, a list cell contains several data items: '<release_year>' followed by 'Number of Titles', '<release_year> - Count' followed by '<Count(show_id)>', '<release_year>' followed by 'Number of Titles', '<release_year> - Count' followed by '<Count(show_id)>', and 'Overall - Count' followed by '<Count(show_id)>'. The properties panel on the right is open, showing the 'Source type' section where 'Data item value' is selected. Other options like 'Text' and 'Report expression' are also visible.

Step 13: - After that, click on 'Source type'. After clicking the show arrow icon, then click Text text.

This screenshot continues from the previous one. The 'Source type' dropdown in the properties panel is now expanded, showing three options: 'Data item value' (which is checked), 'Text' (indicated by a checked checkbox), and 'Report expression'. The 'Text' option is highlighted.

Step 14: - Click on the text. After clicking, show three dots. Click on three dots. After clicking, type “Netflix Titles Released Per Year”. Click OK. Then rename.

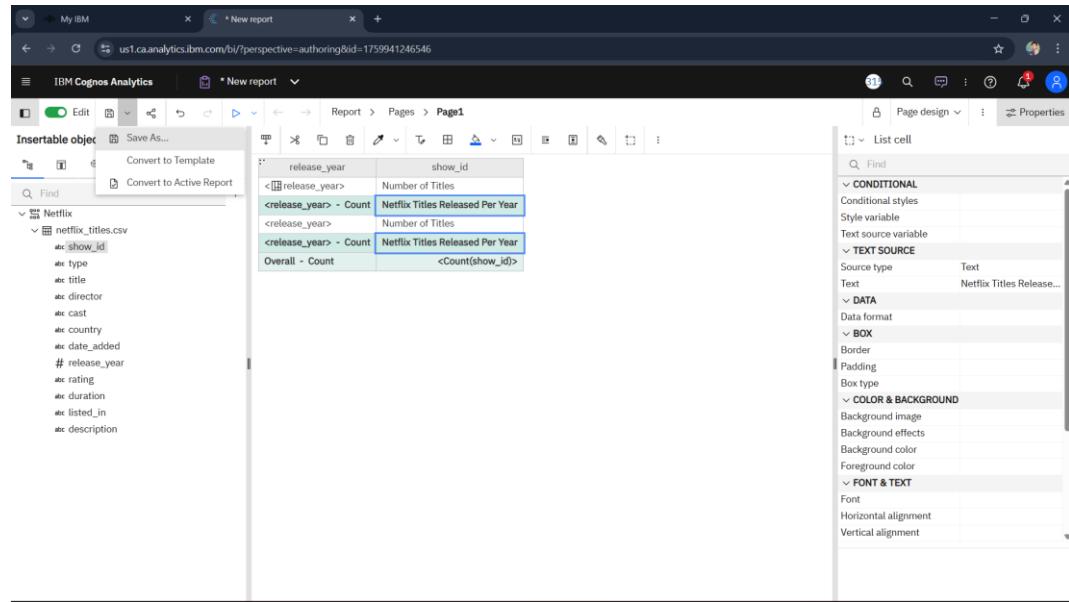
The screenshot shows the IBM Cognos Analytics interface. A 'Text' dialog box is open in the center, containing the text 'Netflix Titles Released Per Year'. This text is highlighted with a blue selection bar. In the background, the main workspace displays a list of items under 'Insertable objects', including 'release_year' and 'show_id'. To the right, the 'Properties' panel is visible, showing settings for a 'List cell' component, specifically the 'Text' section where the source variable is set to 'Text' and the value is 'Netflix Titles Released Per Year'.

- Display is show like this.

This screenshot shows the same IBM Cognos Analytics interface as the previous one, but the 'Text' dialog box is no longer open. Instead, the list of insertable objects now includes a renamed item: '<release_year> - Count' has been renamed to 'Netflix Titles Released Per Year'. The rest of the interface, including the properties panel, remains the same.

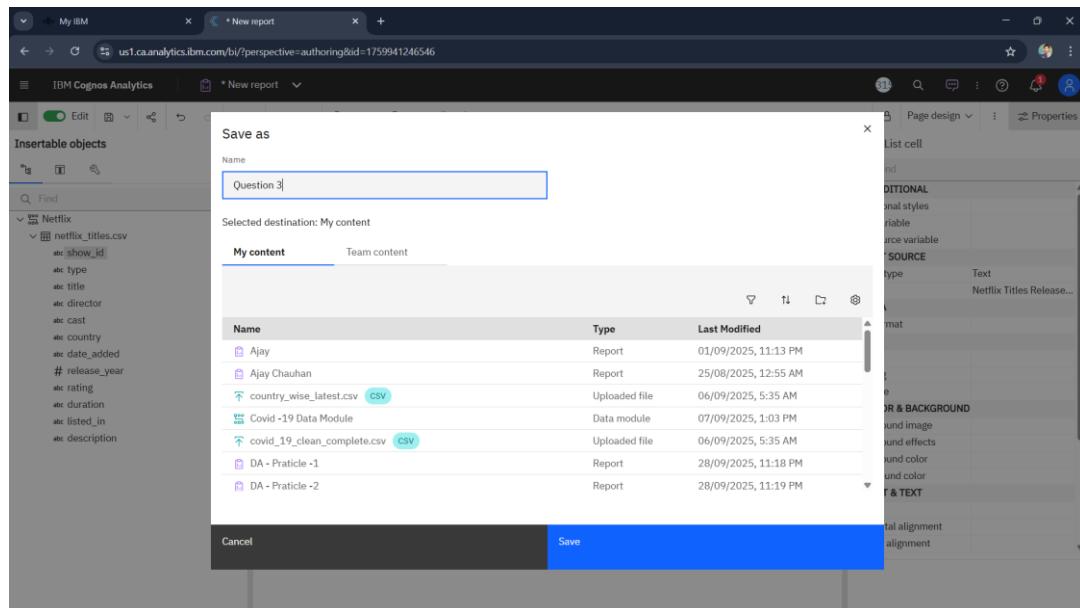
Step 15: To save the report, click the small arrow  next to the Save icon (beside Edit).

Select  "Save as".



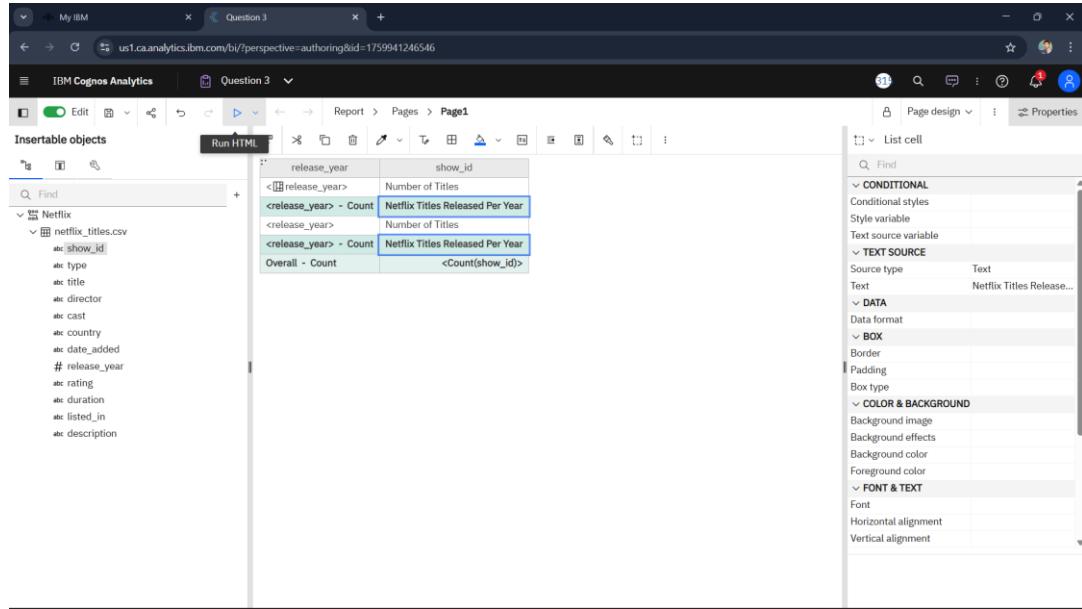
The screenshot shows the IBM Cognos Analytics interface. A report page titled 'Page1' is displayed. On the left, there's an 'Insertable objects' panel with a tree view of data sources, including 'Netflix' and its sub-table 'netflix_titles.csv'. In the center, a list cell is being edited, showing calculated fields: '<release_year>', 'show_id', '<release_year> - Count' labeled 'Netflix Titles Released Per Year', and 'Overall - Count' labeled '<Count(show_id)>'. The right side of the screen features a 'Properties' panel with tabs for 'List cell', 'Find', 'CONDITIONAL', 'TEXT SOURCE', 'DATA', 'BOX', 'COLOR & BACKGROUND', 'FONT & TEXT', and 'Border'.

Step 16: - After clicking on the Save As, they open a Save As box, and now choose My content. Enter the name of the report ("Question-03"), then click  icon.



The screenshot shows a 'Save as' dialog box. The 'Name' field contains 'Question 3'. Below it, the 'Selected destination' dropdown is set to 'My content'. The 'My content' tab is active, showing a list of items: 'Ajay', 'Ajay Chauhan', 'country_wise_latest.csv', 'Covid -19 Data Module', 'covid_19_clean_complete.csv', 'DA - Pratice -1', and 'DA - Pratice -2'. The 'Team content' tab is also visible. At the bottom of the dialog, there are 'Cancel' and 'Save' buttons, with 'Save' being the active one.

Step 17: - After saving, to run the report, click the Run  icon, which is just below the report name.

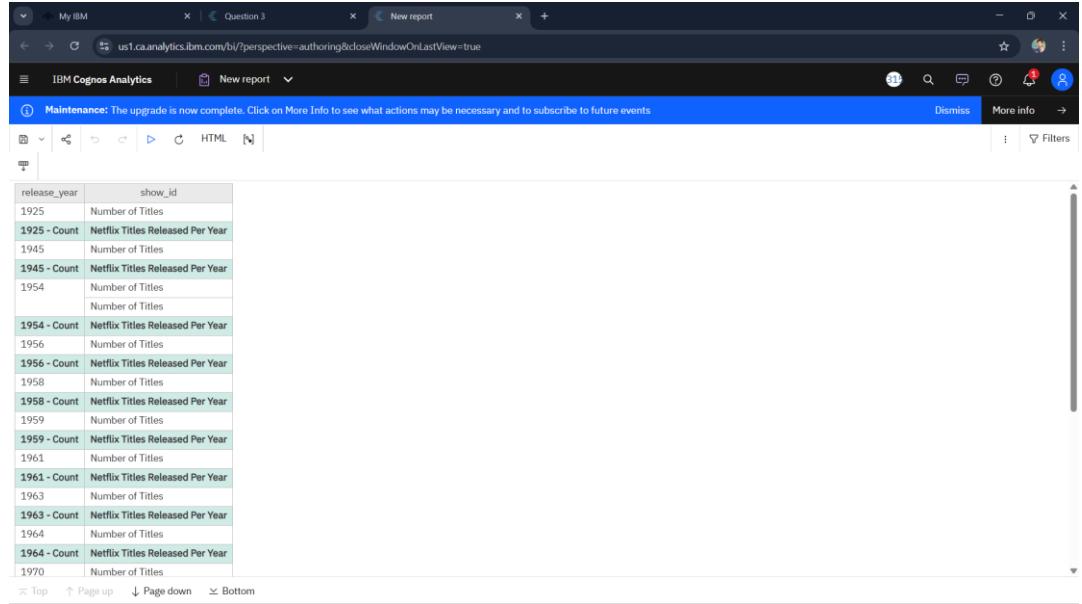


The screenshot shows the IBM Cognos Analytics interface. On the left, there's a sidebar titled "Insertable objects" containing a tree view of data sources and objects. A "Run HTML" button is visible at the top of the main workspace. In the center, a list cell is selected, displaying the following data:

release_year	show_id
<release_year>	Number of Titles
<release_year> - Count	Netflix Titles Released Per Year
<release_year>	Number of Titles
<release_year> - Count	Netflix Titles Released Per Year
Overall - Count	<Count(show_id)>

On the right, the "Properties" panel is open, showing settings for the selected list cell, including "List cell" under "conditional" and "Text source" under "Text".

- After running, show the report is “Number of titles and Netflix Titles Released Per Year” with country-wise.



The screenshot shows the final report generated by IBM Cognos Analytics. It displays a table with two columns: "release_year" and "show_id". The data consists of 46 rows, each representing a year from 1925 to 1970. The first few rows are as follows:

release_year	show_id
1925	Number of Titles
1925 - Count	Netflix Titles Released Per Year
1945	Number of Titles
1945 - Count	Netflix Titles Released Per Year
1954	Number of Titles
1954	Number of Titles
1954 - Count	Netflix Titles Released Per Year
1956	Number of Titles
1956 - Count	Netflix Titles Released Per Year
1958	Number of Titles
1958 - Count	Netflix Titles Released Per Year
1959	Number of Titles
1959 - Count	Netflix Titles Released Per Year
1961	Number of Titles
1961 - Count	Netflix Titles Released Per Year
1963	Number of Titles
1963 - Count	Netflix Titles Released Per Year
1964	Number of Titles
1964 - Count	Netflix Titles Released Per Year
1970	Number of Titles

- Click Bottom, then show the overall - count “Netflix Titles Released Per Year”.

The screenshot shows a web browser window for IBM Cognos Analytics. The address bar indicates the URL is us1.ca.analytics.ibm.com/bi/?perspective=authoring&closeWindowOnLastView=true. The main content area displays a list of items, mostly labeled "Number of Titles". At the bottom of the list, there are two entries: "2021 - Count" followed by "Netflix Titles Released Per Year" and "Overall - Count" followed by "5000". Below the table, there are navigation links for "Top", "Page up", "Page down", and "Bottom".

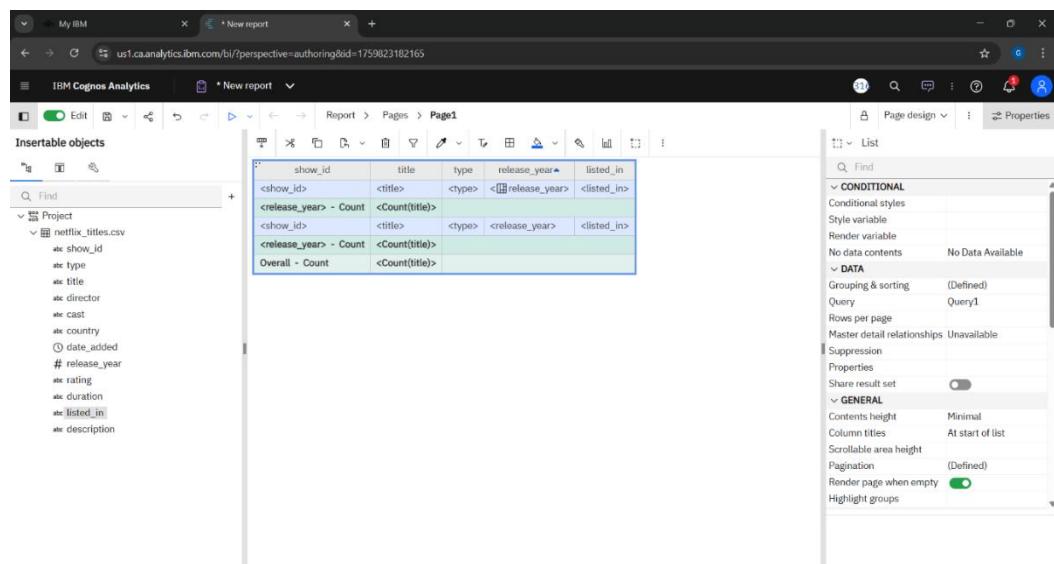
Number of Titles	
2021 - Count	Netflix Titles Released Per Year
Overall - Count	5000

PROJECT

Problem Statement - 04: - Count how many times each genre (from “listed_in”) appears in the dataset.

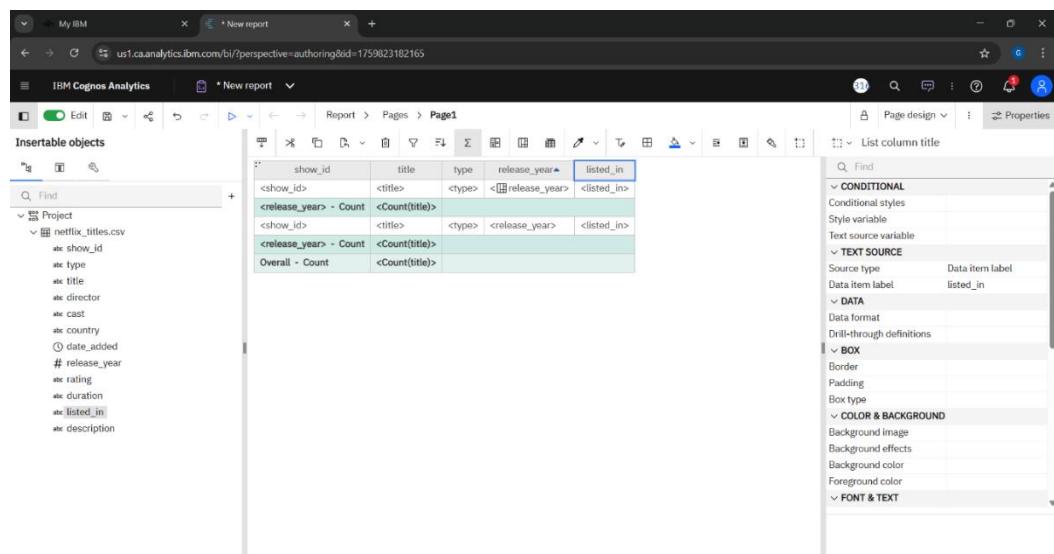
Solution:

Step 1: Click on the three dots in the left corner of your report to select the entire report.



The screenshot shows the IBM Cognos Analytics report design interface. A report titled 'Page1' is open. On the left, the 'Insertable objects' pane lists various data items from a 'netflix_titles.csv' file, including 'show_id', 'title', 'type', 'release_year', and 'listed_in'. In the center, a table is displayed with four rows. The first row contains columns for 'show_id', 'title', 'type', 'release_year', and 'listed_in'. The second row is a calculated item labeled '<show_id> - Count' with the formula '<Count(title)>'. The third row is another calculated item labeled '<show_id>' with the formula '<title>'. The fourth row is a calculated item labeled '<release_year> - Count' with the formula '<Count(title)>'. An 'Overall - Count' row at the bottom has the formula '<Count(title)>'. The right side of the screen shows the 'Properties' panel for the 'listed_in' column, which is currently selected. The properties panel displays settings for 'CONDITIONAL', 'DATA', 'GENERAL', and 'TEXT SOURCE'.

Step 2: Double-click on the listed_in option from the dataset to add a column to the report.



This screenshot shows the same report design interface as the previous one, but with a notable difference: the 'listed_in' column has been successfully added to the report. The table now includes an additional column next to 'release_year'. The right-hand 'Properties' panel is still open, showing the properties for the 'listed_in' column, specifically under the 'TEXT SOURCE' section where it is identified as a 'Data item label'.

Step 3: Click on Listed_in.

Step 4: Click on the Summarize option.

The screenshot shows the IBM Cognos Analytics interface with the 'Project report' page open. In the center, there is a list of items with a context menu open over the last item, which is labeled 'listed_in'. The menu has 'Summarize' selected. On the right side, the 'List column title' properties panel is visible, showing settings for the 'Data item label' set to 'listed_in'. The 'Source type' is listed as 'Data item label'.

Step 5: Select Count to count the genre.

The screenshot shows the same interface as above, but now the 'Summarize' option in the context menu has been expanded to show a list of summarization methods. The 'Count' option is selected. The 'List column title' properties panel remains on the right, showing the 'Data item label' still set to 'listed_in'.

Step 6 : Click on Group-to-group same genre from different rows into a single row.

The screenshot shows the IBM Cognos Analytics interface. On the left, there's an 'Insertable objects' pane with a tree view of a project named 'Project' containing a file 'netflix_titles.csv'. The main area displays a table with four columns: 'show_id', 'title', 'Group / Ungroup', and 'listed_in'. The 'Group / Ungroup' column contains the formula '<group or ungroup selected data in a list.' The 'listed_in' column contains the formula '<Count(listed_in)>'. The properties panel on the right is open, showing settings for the 'listed_in' data item, including 'Source type: Data item label' and 'Data item label: listed_in'.

Step 7: Click on the Sort option.

This screenshot is similar to the previous one but shows the 'Sort' option being used. The 'Group / Ungroup' column now contains the formula 'Sort selected data.' and the 'listed_in' column contains the formula '<list_in>'. The properties panel remains the same, showing the 'listed_in' data item settings.

GROUP NUMBER: 1

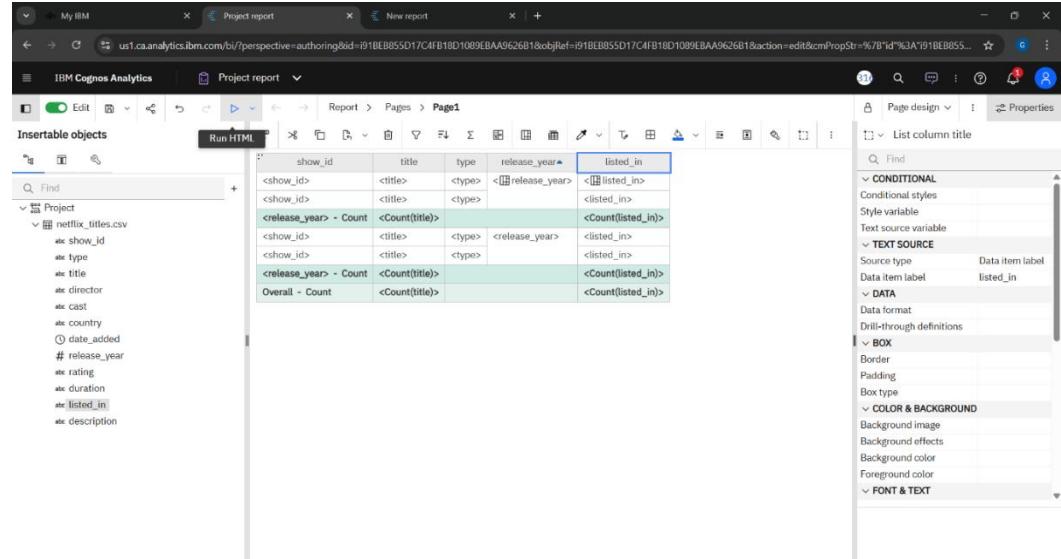
Step 8 : Select Descending. It will show the most common genres at the top.

The screenshot shows the IBM Cognos Analytics interface with a report titled 'Project report'. A context menu is open over the 'listed_in' column header, specifically over the 'Sort in Layout' dropdown. The dropdown menu has three options: 'Ascending', 'Descending', and 'T1 Don't sort'. 'Descending' is highlighted with a blue background. Below the dropdown, there is a section titled 'Other Sort Options' with a 'Edit layout sorting...' button. To the right of the report area is the 'Properties' panel, which is currently expanded to show settings for the 'listed_in' column, such as 'Data item label' set to 'listed_in' under the 'TEXT SOURCE' section.

Step 9 : Click on the save icon  (under the IBM Cognos Analytics) to save the report.

This screenshot is identical to the previous one, showing the same report structure and sort order dialog. However, the 'Save' icon in the toolbar at the top left of the interface is now highlighted with a black rectangle, indicating it is the active button to save the changes made to the report.

Step 10 : Now, click on the run icon ▶ (under the name of your report) to run the report.



The screenshot shows the IBM Cognos Analytics Report Designer interface. A table is being designed on the canvas. The table has four columns: show_id, title, type, and release_year. The last column, release_year, contains a formula <Count(listed_in)>. The table is currently selected, indicated by a blue border around its cells. To the left of the canvas is an 'Insertable objects' pane containing various data items like show_id, title, type, director, cast, country, date_added, rating, duration, listed_in, and description. On the right side of the screen is a 'Properties' panel, which is currently expanded to show the 'List column title' section. Under 'Text source variable', the 'Data item label' is set to 'listed_in'. Other sections visible in the properties panel include 'Text Source', 'Data', 'Box', 'Color & Background', and 'Font & Text'.

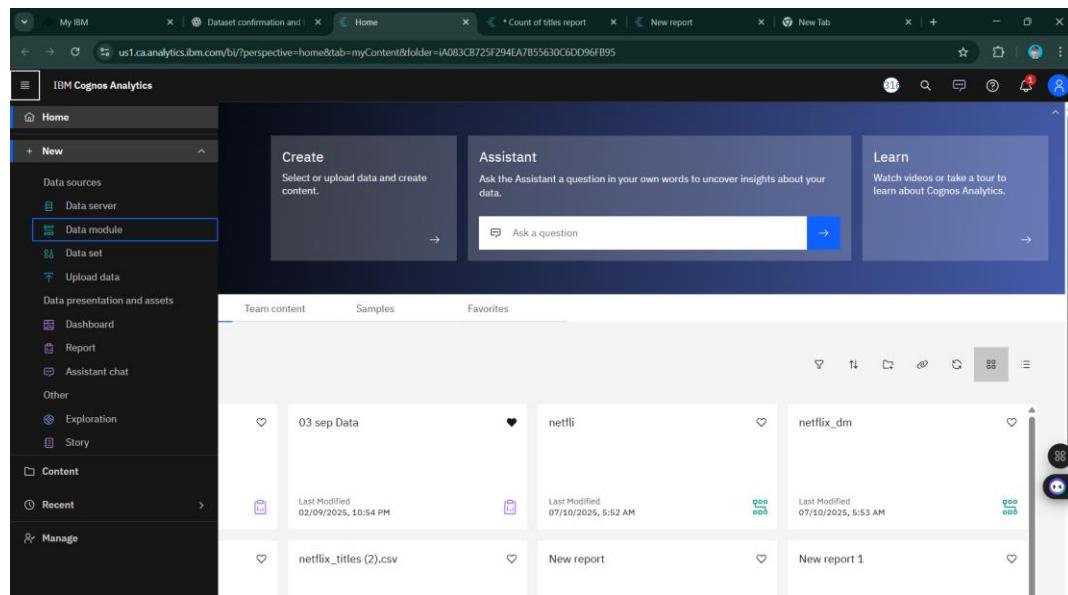
Step 11: It's done. Now you can see how many times each genre appears to identify the most common genre or category.

PROJECT

Problem Statement - 05: - List each rating category (like TV-MA, PG-13, etc.) with total number of titles under each.

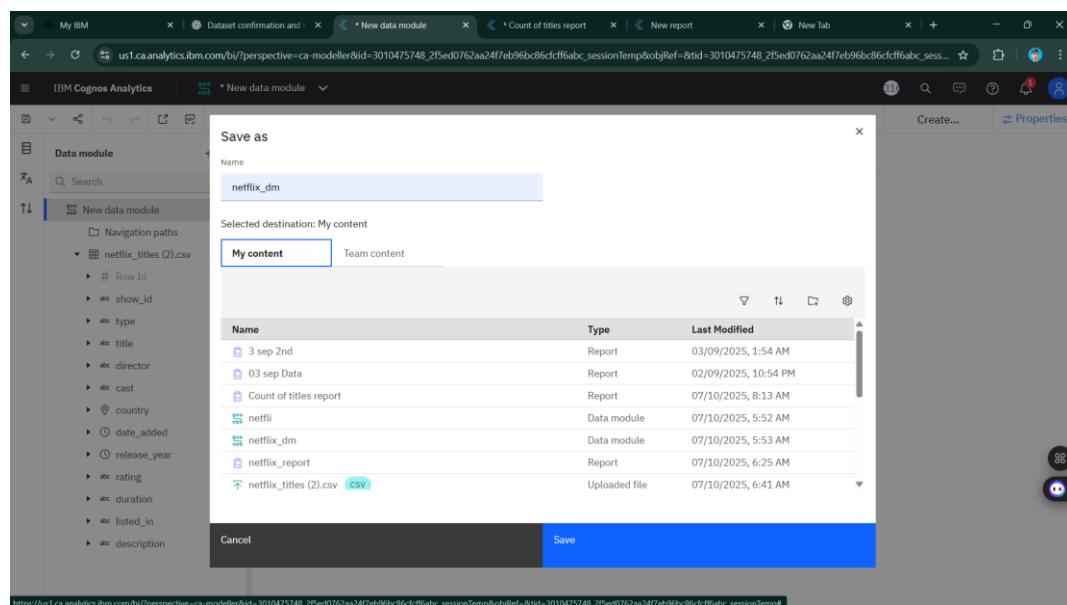
Solution:

Step 1: - Then click on the **menu** and then click on **new**. Now, click **Data Module** and Upload “netflix_titles.csv” dataset.



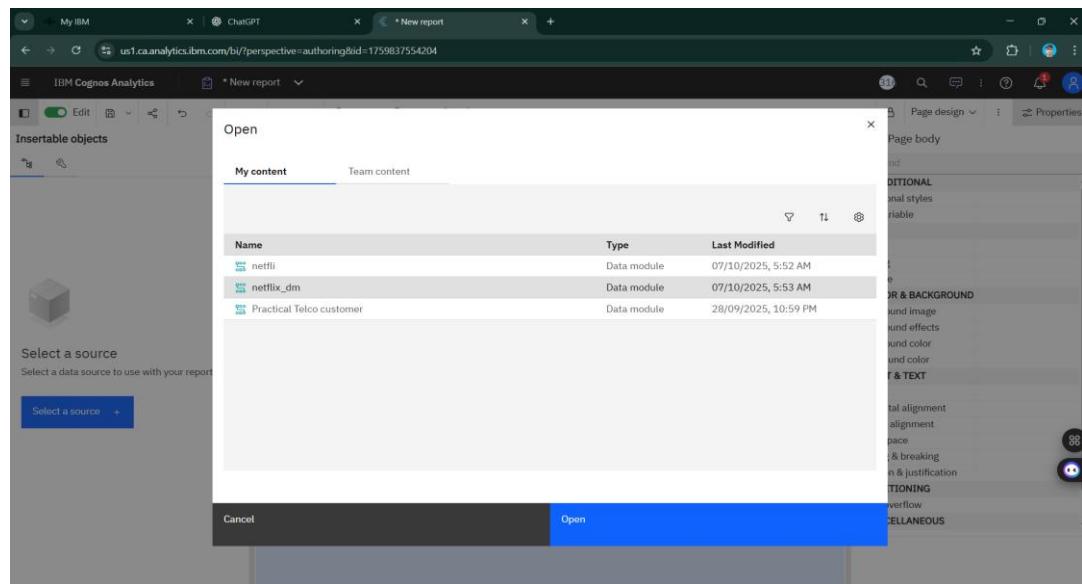
The screenshot shows the IBM Cognos Analytics interface. On the left, the navigation menu is open, showing "Data module" selected under "Data sources". The main area displays a "Create" panel with the sub-instruction "Select or upload data and create content." Below it is an "Assistant" panel with a search bar and a "Learn" panel. The central workspace shows a grid of items, including "03 sep Data", "netflix", and "netflix_dm" (which is highlighted). At the bottom, there are tabs for "Team content", "Samples", and "Favorites".

Step 2: After uploading the dataset ‘netflix_titles.csv’, save it as “netflix_dm”.
So the **data module** was created.



The screenshot shows the "Save as" dialog box in IBM Cognos Analytics. It has a "Name" field set to "netflix_dm". Below it, "Selected destination: My content" is chosen, with "My content" selected. A preview pane shows a list of existing items: "3 sep 2nd", "03 sep Data", "Count of titles report", "netflix", "netflix_dm" (highlighted in blue), "netflix_report", and "netflix_titles (2).csv". At the bottom are "Cancel" and "Save" buttons.

Step 3:- Now go Home page and click on **New** And Create a **Blank List Report** and add the “**netflix_dm**” data module from **my content**.



Step 4: Now Add ‘rating’ and ‘titles’ column from ‘netflix_dm’ data module.

The screenshot shows the IBM Cognos Analytics report builder interface. A 'List' object is currently selected on the canvas. In the 'Insertable objects' pane, under the 'netflix_dm' category, the 'netflix_titles (2).csv' file is expanded, revealing its structure. The 'rating' and 'title' columns are visible within this structure. The 'Properties' pane on the right provides various configuration options for the 'List' object, such as 'Conditional', 'Data', 'General', and 'Box' properties. The 'General' section shows 'No data contents' and 'No Data Available'.

Step 5: After adding ‘rating’ and ‘title’ columns. Now right click on ‘rating’ column and on the top bar, click on the **Group/Ungroup** button. It makes a group of all rating data.

The screenshot shows the IBM Cognos Analytics interface. In the center, there's a report builder window titled 'Page1'. On the left, the 'Insertable objects' pane shows a tree structure with 'netflix_dm' expanded, containing 'netflix_titles (2).csv' which has several columns listed under it. In the main area, a 'rating' column is selected, highlighted with a blue border. To the right, the 'Properties' panel is open, showing the 'DATA ITEM' section. Under 'Name', it says 'rating'. In the 'Expression' field, the code '[C].[C_.netflix_dm].[net...]' is visible. Below this, 'Detail aggregation' is set to 'None' and 'Summary aggregation' is also set to 'None'. At the bottom of the properties panel, there's a 'Summary aggregation' section with a detailed description: 'Specifies the type of aggregation to apply to summarized values. These values appear at the higher levels of lists and crosstabs. For OLAP data'.

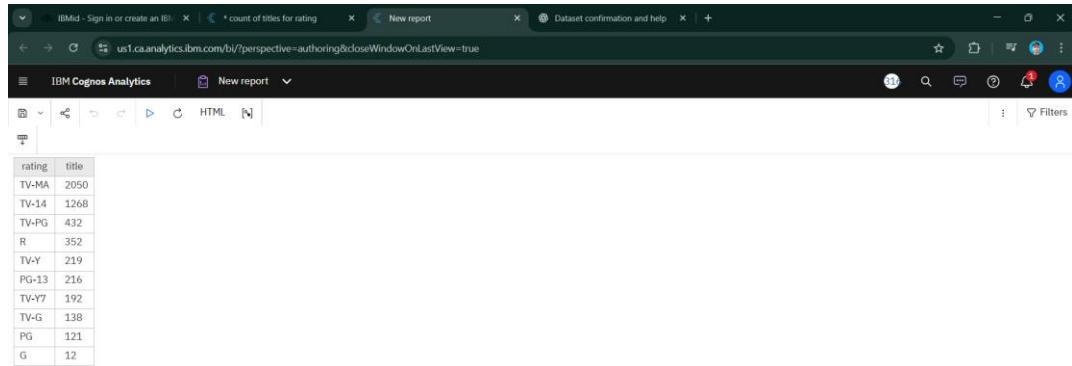
Step 6: And then right-click on the ‘title’ column and click the properties icon below the profile picture, then go to the ‘DATA ITEM’ section and set name = ‘total titles’ and detail aggregation = ‘count’

This screenshot is similar to the previous one but focuses on the 'title' column. The 'title' column is selected and highlighted with a blue border. In the 'Properties' panel, the 'DATA ITEM' section is open, showing the 'Name' as 'total titles'. The 'Expression' field now contains '[C].[C_.netflix_dm].[net...]' and 'Detail aggregation' is set to 'Count'. The 'Summary aggregation' dropdown menu is open, showing 'Count' as the selected option. The 'Summary aggregation' section in the properties panel also includes the same descriptive text as in the previous screenshot.

Step 7: Now click on ‘<total title>’ into the “total title” column and then click on the sort icon and then sort it in descending order. We will get the greatest number of titles first.

Step 8: After Applying All the filters, save it by clicking the save button or ‘ctrl + s’ with the name of “count of titles report” in My content.

Step 9:- After applying all the filters and saving it as '**count of titles report**' name, now click run as HTML, and a new tab will open and show all ratings with the most titles first.



The screenshot shows a browser window with the URL us1.ca.analytics.ibm.com/bi/?perspective=authoring&closeWindowOnLastView=true. The page title is "IBMid - Sign in or create an IBM ID". The main content area displays a table titled "New report" with the following data:

rating	title
TV-MA	2050
TV-14	1268
TV-PG	432
R	352
TV-Y	219
PG-13	216
TV-Y7	192
TV-G	138
PG	121
G	12

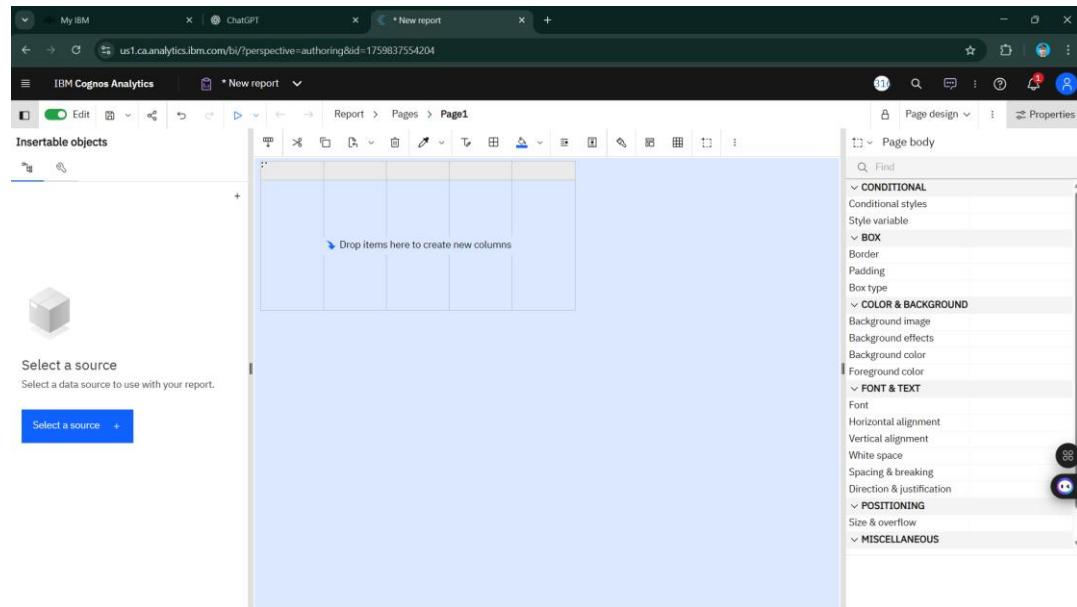
-
- And In Final Output you will get **number of titles** for Each **rating** category.

PROJECT

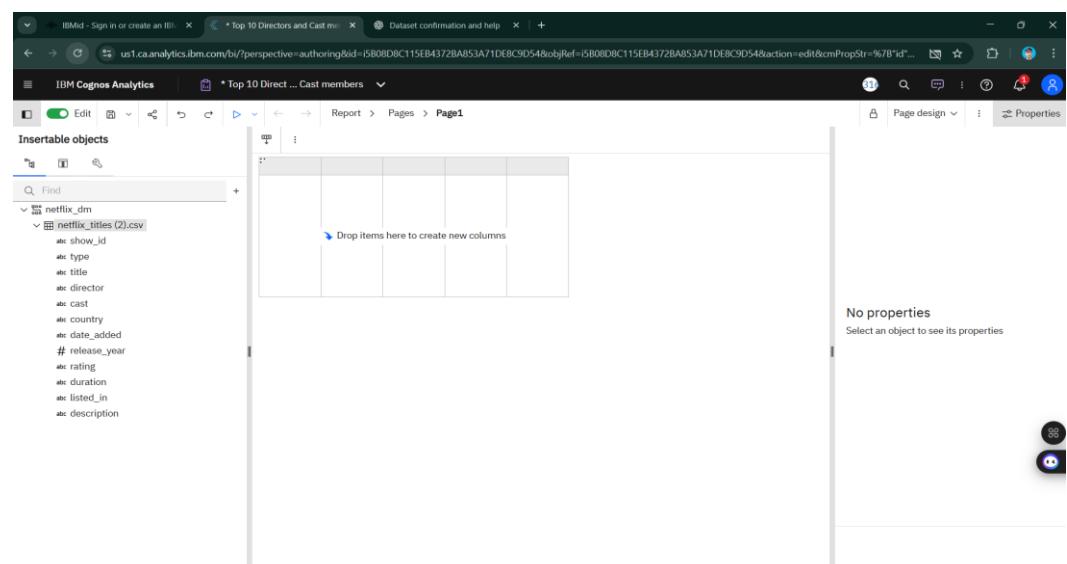
Problem Statement - 06: Find Movies vs TV shows, which category has the most titles.

Solution:

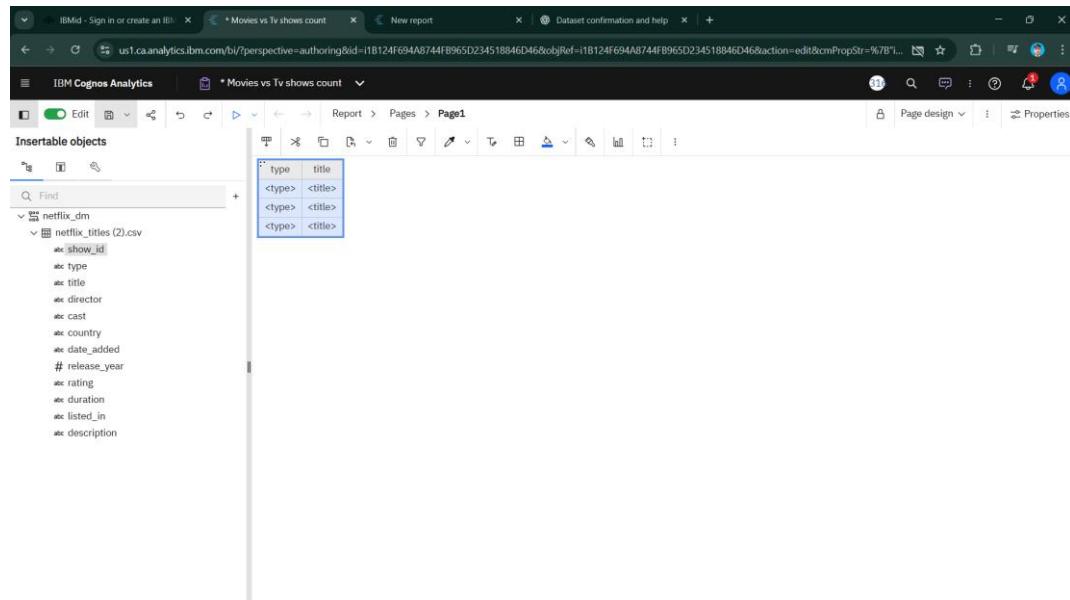
Step 1 : On menu, click new, then Report, and Create a Blank List report.



Step 2:- Now, click Select source to add 'netflix_dm' data module. Which was created by the “netflix_titles.csv” dataset.

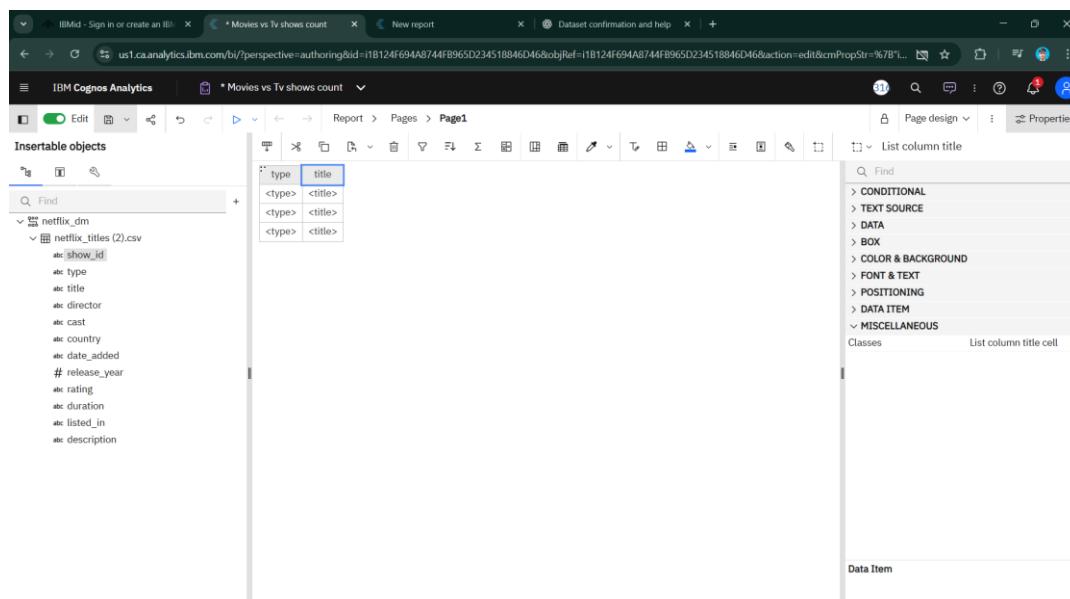


Step 3 : Now, first click ‘type’ and ‘title’ columns from the netflix_dm data module, and it will automatically add to the report screen.



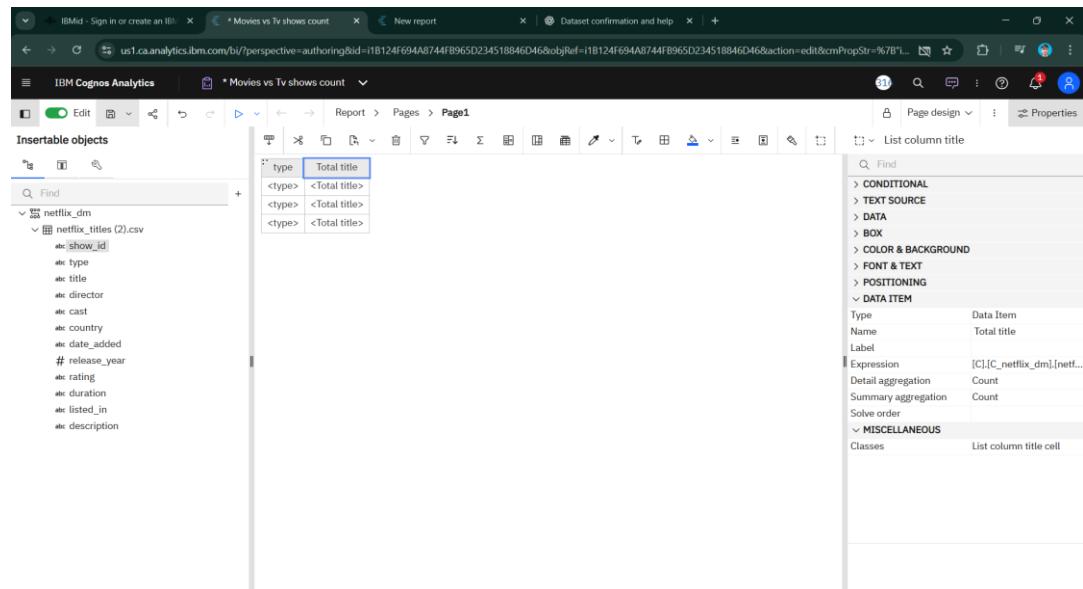
The screenshot shows the IBM Cognos Analytics interface. In the top navigation bar, there are tabs for 'IBMid - Sign in or create an IBMi', 'Movies vs Tv shows count', 'New report', 'Dataset confirmation and help', and other options. Below the navigation is a toolbar with various icons. On the left, the 'Insertable objects' pane is open, showing a tree structure of data modules and their contents. Under 'netflix_dm', the 'show_id' node is expanded, showing fields like 'type', 'title', 'director', etc. Two specific columns, 'type' and 'title', are highlighted with a blue selection box. The main workspace is currently empty, showing a placeholder for a report page.

Step 4 :- Now, click on the ‘title’ column and then click top right side of the property’s icon.

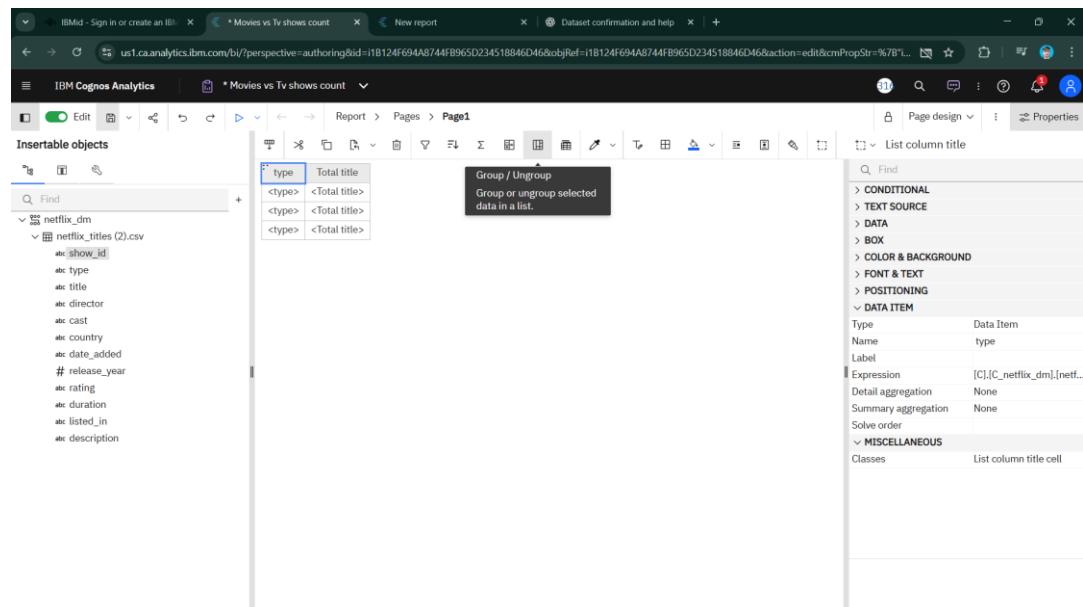


This screenshot continues from the previous one, showing the 'Properties' panel open on the right side of the interface. The 'title' column is selected in the 'Insertable objects' pane, and its properties are displayed in the 'Properties' panel. The 'List column title' section is expanded, showing options like 'CONDITIONAL', 'TEXT SOURCE', 'DATA', 'BOX', 'COLOR & BACKGROUND', 'FONT & TEXT', 'POSITIONING', 'DATA ITEM', and 'MISCELLANEOUS'. A tooltip 'List column title cell' is visible near the bottom of the properties panel. The main workspace remains empty.

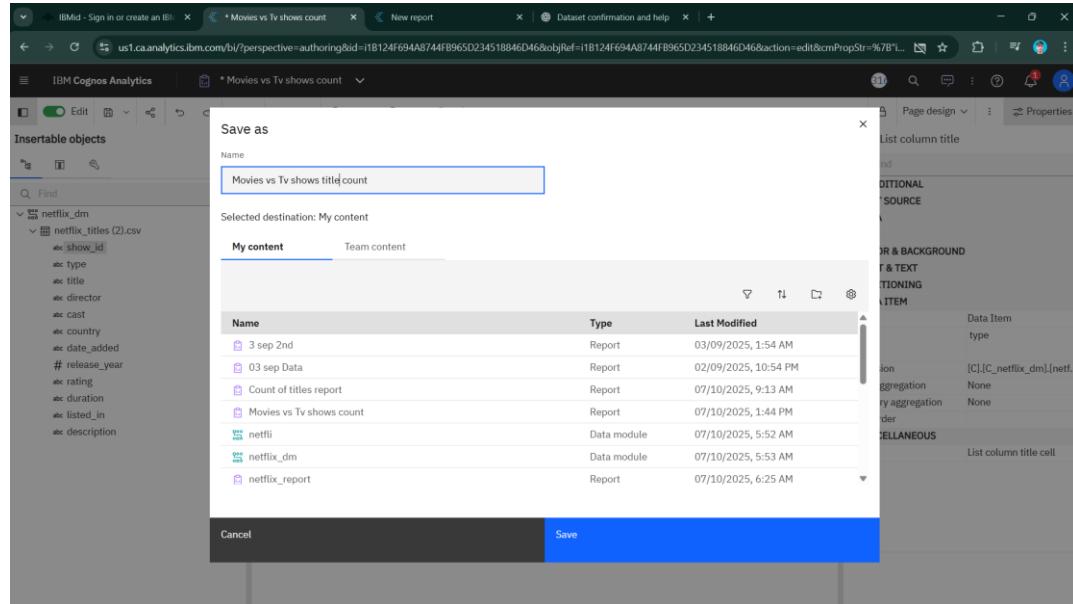
Step 5 : Now click on ‘DATA ITEM’ and then set name = Total title and detail aggregation = none to count, summary aggregation = none to count.



Step 6: Now, click on the type of column and then click Apply Group Filter by clicking the group icon from the top bar.



Step 7 : Now, click on the Save As button and save it in My content and set the name = “Movies vs TV shows Title Count”



Step 8 : After saving the report, click on run and run it as HTML, and you will get Your final output.

type	title
TV Show	1789
Movie	3211

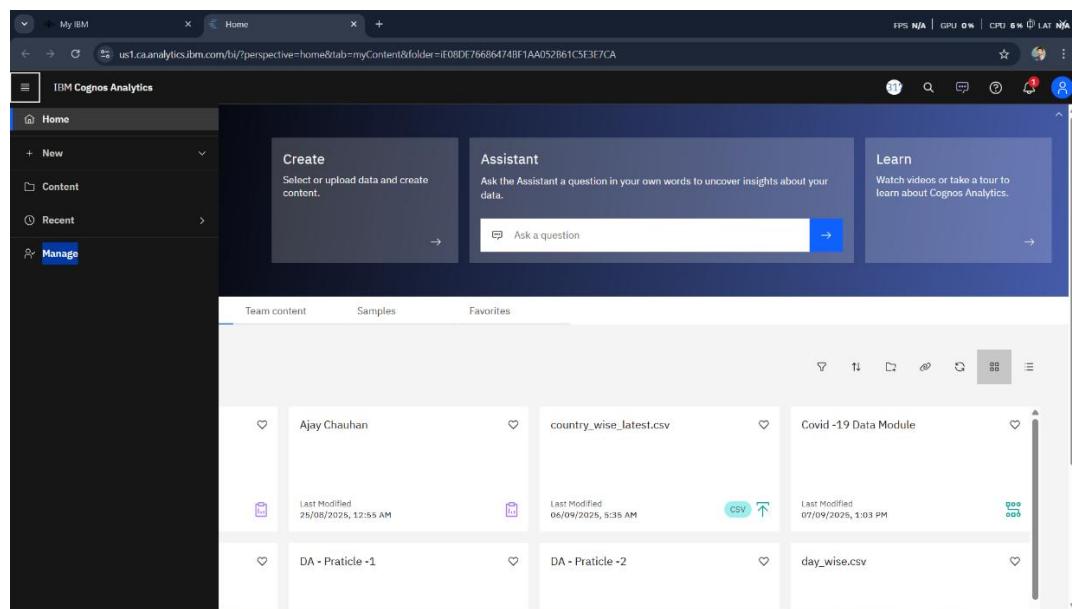
- This is the Final Output where 'Tv Shows' has '**1789**' titles and Movies has 'Movies' has '**3211**' titles .

PROJECT

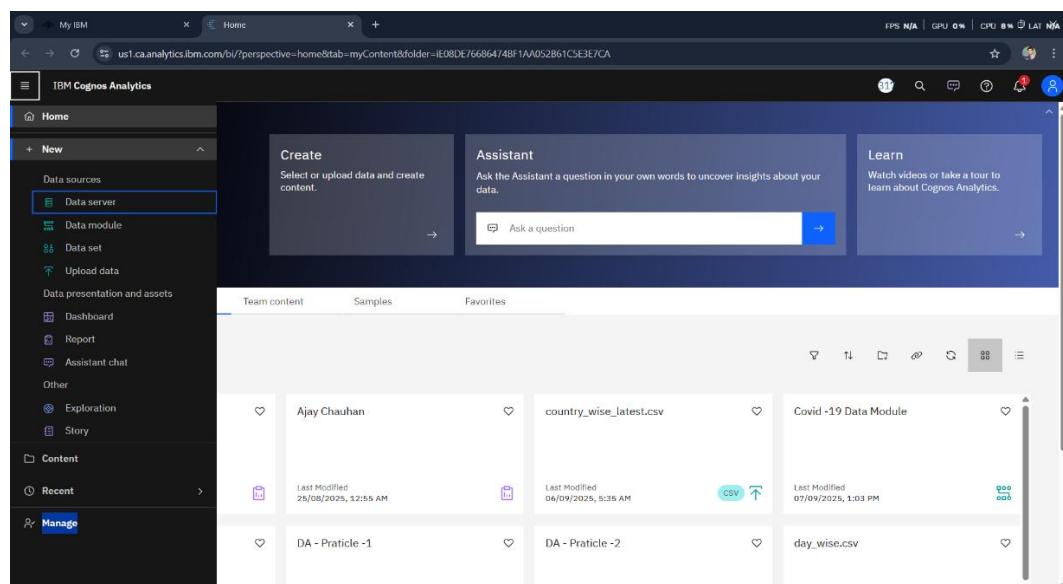
Problem Statement - 07: Using Exploration in IBM Cognos Analytics, create a List a visualization that shows the total number of Netflix titles “(show_id)” released each year “(release_year)”.

Solution:

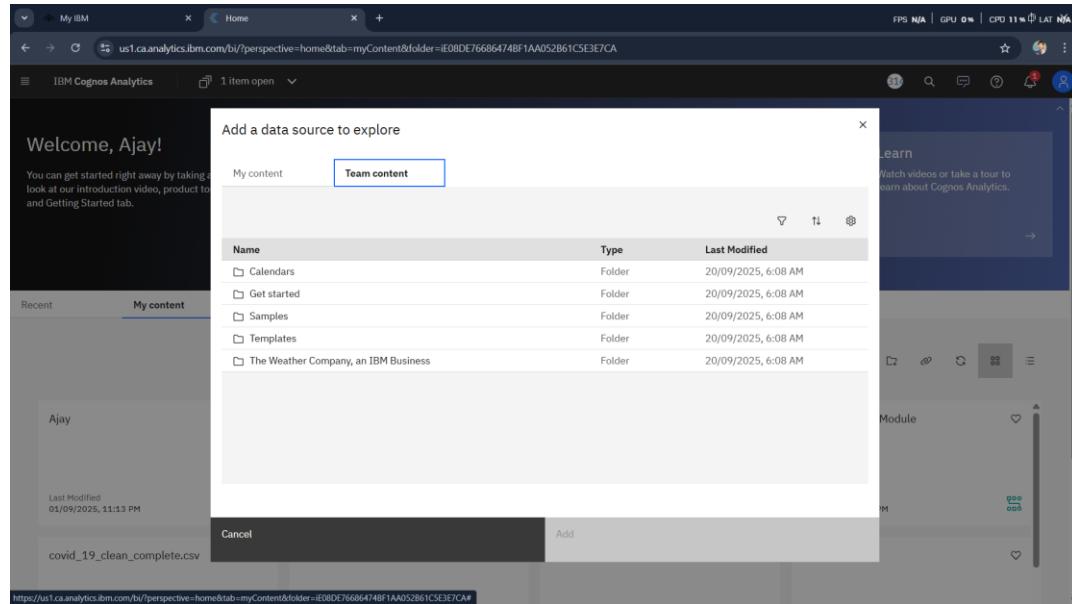
Step 1: - Click on the three lines (Open menu) icon at the top left corner in IBM Cognos homepage.



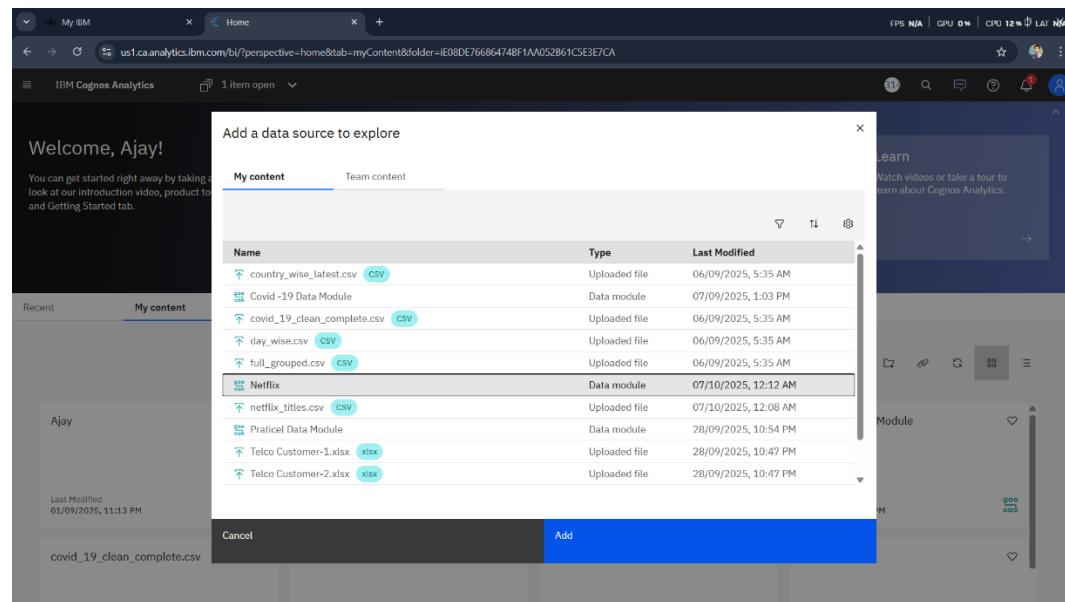
Step 2: - After the “Open menu” opens, click + New icon.



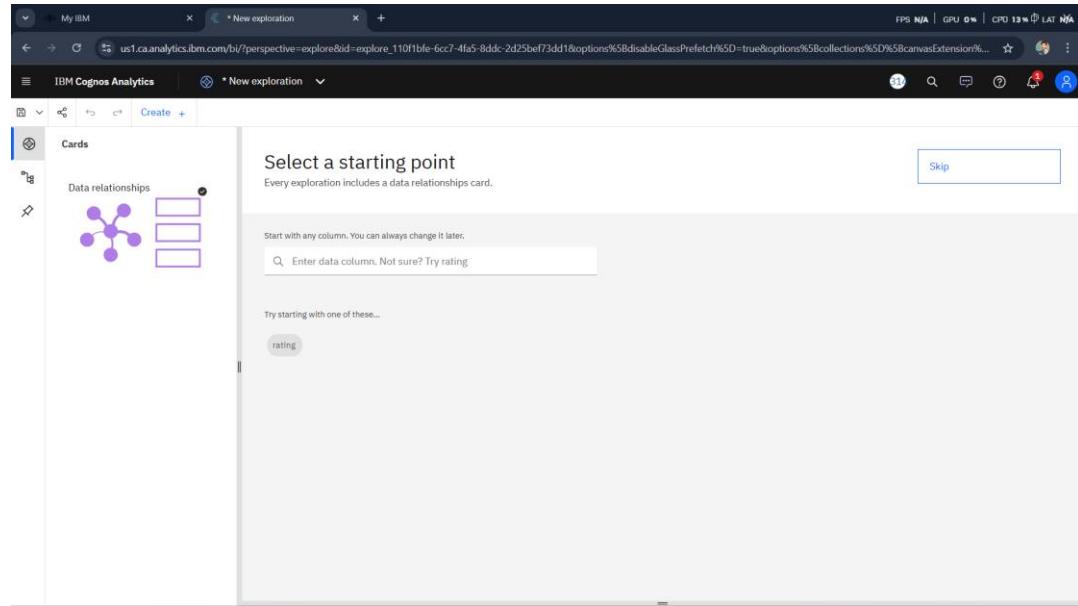
Step 3: - After clicking the “New icon”, from the menu, click the  Exploration icon for visualization.



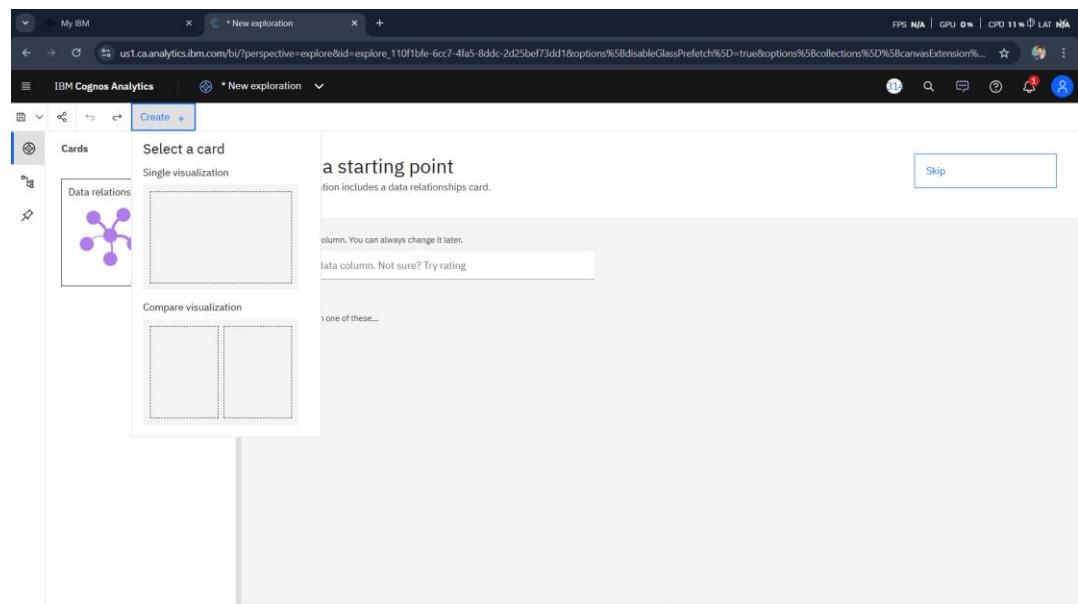
Step 4: - After clicking the exploration icon, open an “add a data source to explore” and click on my content. Then choose your data-module, then click  Add to upload your data-module.



- After clicking add display looks like this.



Step 5: - Click icon to choose a template.



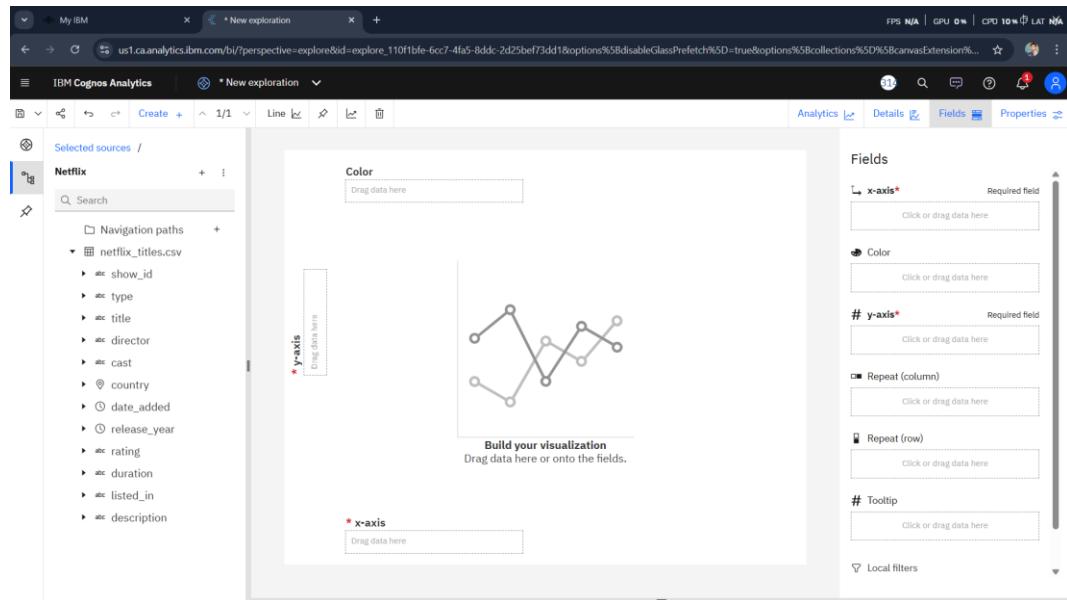
Step 6: - After that, click “Single visualization”. Looks like this.

The screenshot shows the IBM Cognos Analytics interface. On the left, there's a sidebar with 'Cards' and 'Data relationships'. In the center, a large white area has the heading 'Create a visualization' with the sub-instruction 'Drag and drop fields or choose visualization type'. Below this is a blue button labeled 'Choose a type'. On the right, there's a section titled 'Fields' with a single cube icon and the message 'No visualization created. Create a visualization to manage the field settings.'

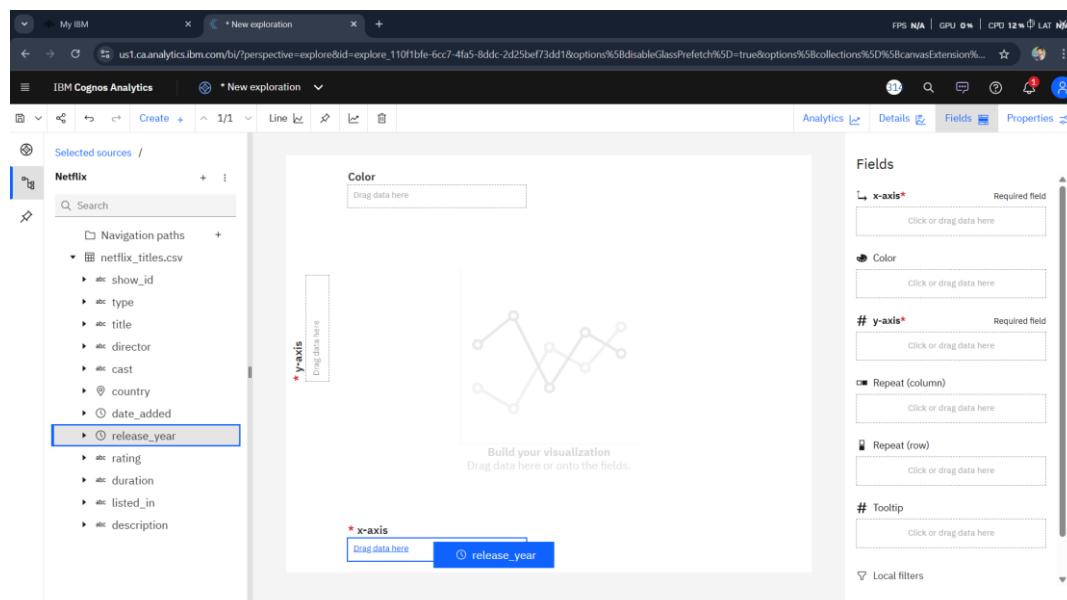
Step 7: - Click **Choose a type** icon, then open the types of visualizations.

This screenshot shows the 'Choose visualization type' dialog box from the IBM Cognos Analytics interface. The dialog is divided into several sections: 'Comparison' (Bar, Bullet, Column, Dual-axis column, Dual-axis line, Heat map, Line and column, Marimekko, Radar, Radial, Stacked bar), 'Parts to whole' (Hierarchy bubble, Packed bubble, Pie, Tree map), 'Trend' (Area, Box plot, Dual-axis column, Dual-axis line, Line, Line and column, Point, Radial, Tornado, Waterfall), and 'Relationships' (LO, Bar, QoV, I:O, Line chart, Point chart, Radar chart, Waterfall chart). At the bottom of the dialog, there are tabs for 'Tables and summary'.

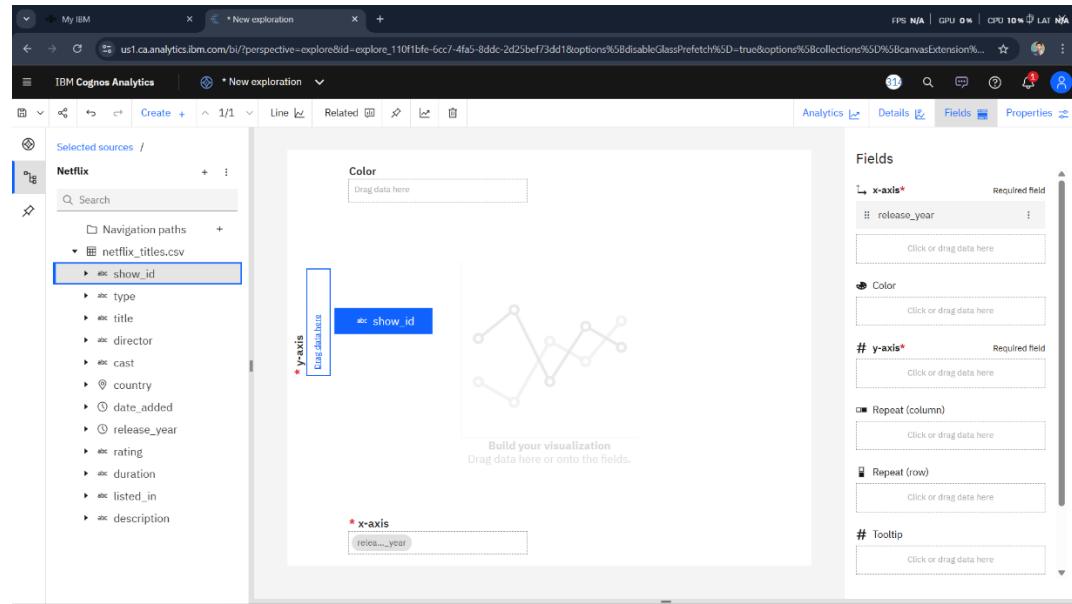
Step 8: - Click  icon, then open a line-chart. After clicking the line chart, the display looks like this.



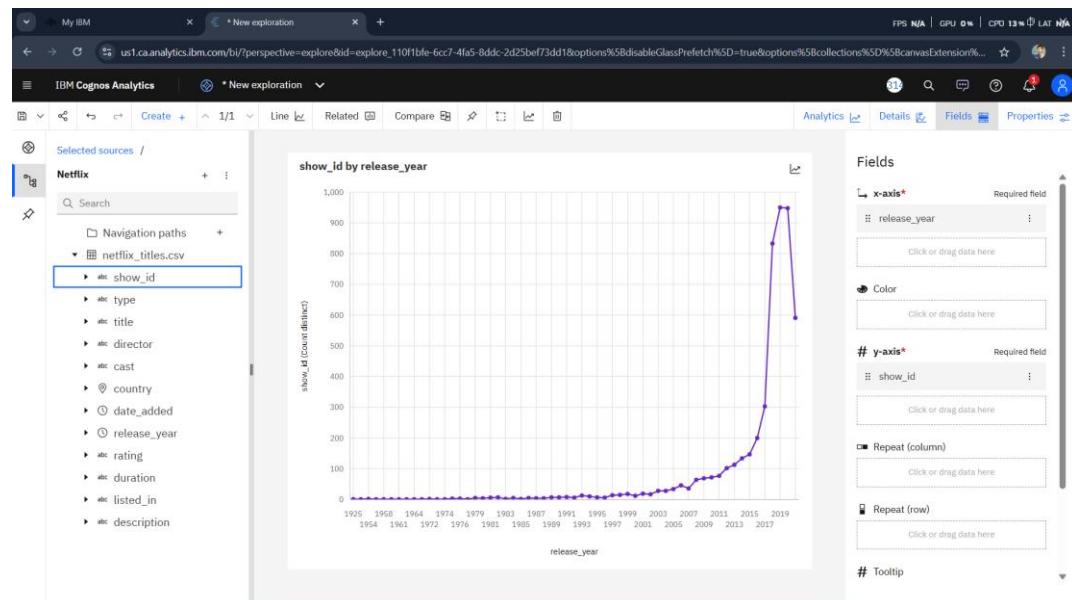
Step 9: - From the left side, drag  release_year "release_year" on the x-axis.



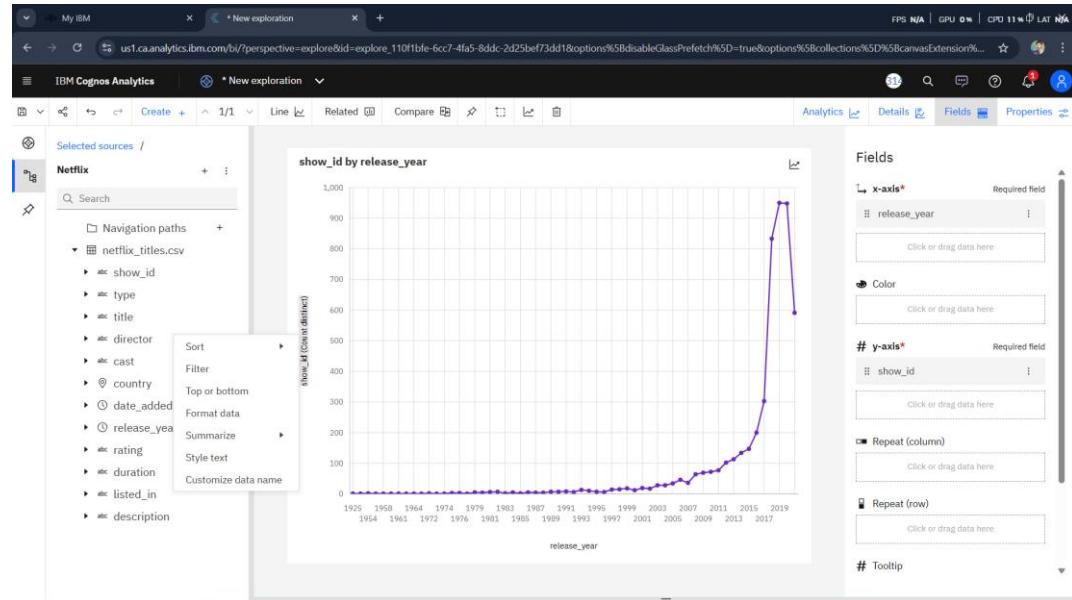
Step 10: - From the left side, drag **show_id** "show_id" on the y-axis.



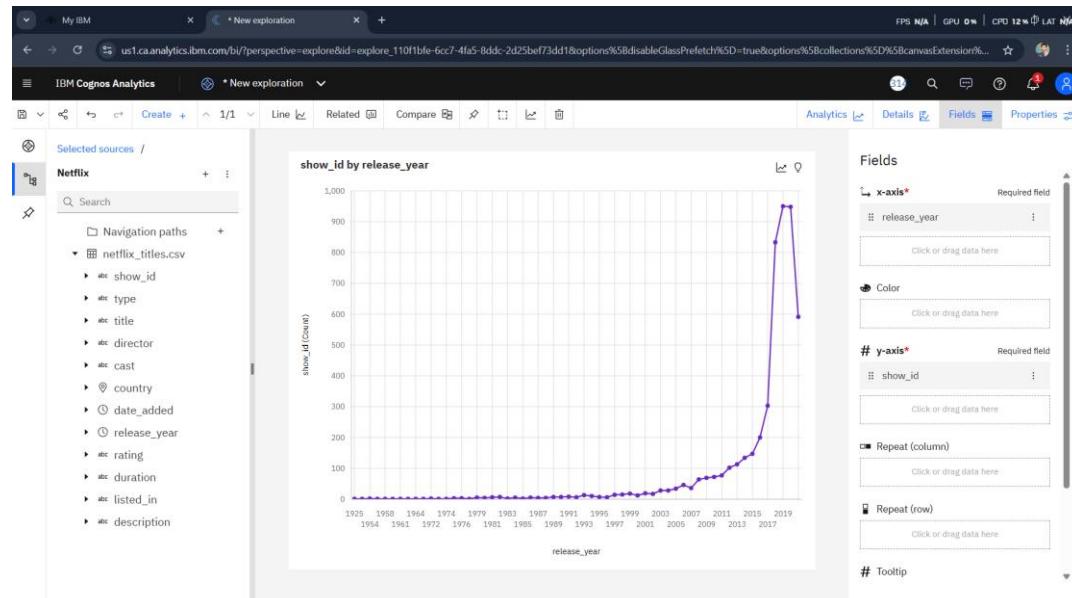
- After adding the x-axis and the y-axis, the display looks like this.



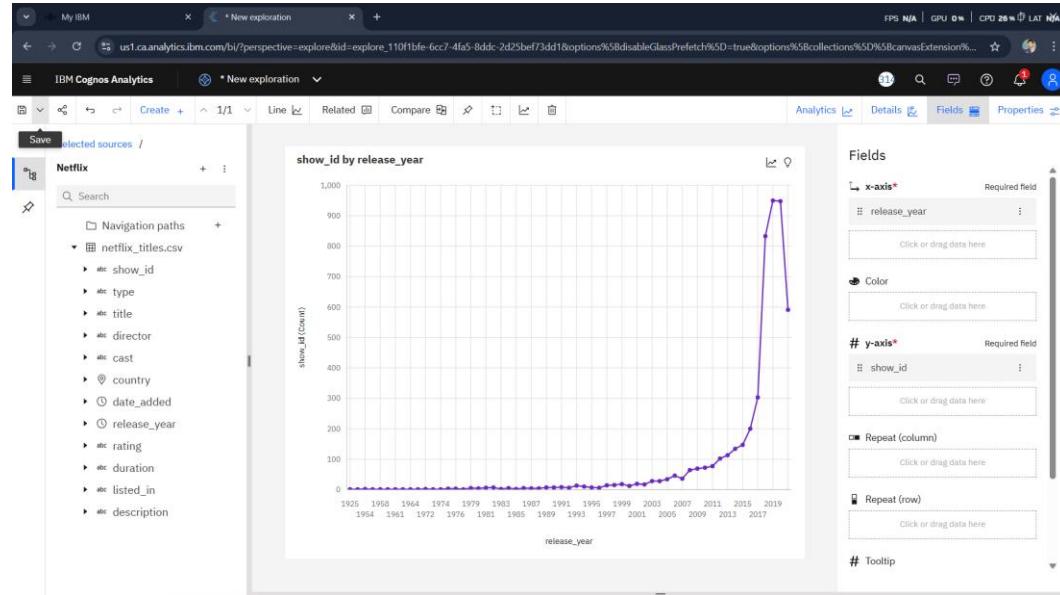
Step 11: - For applying summarizing on `show_id` (`Count distinct`), Mouse right click then open multiple summarize options.



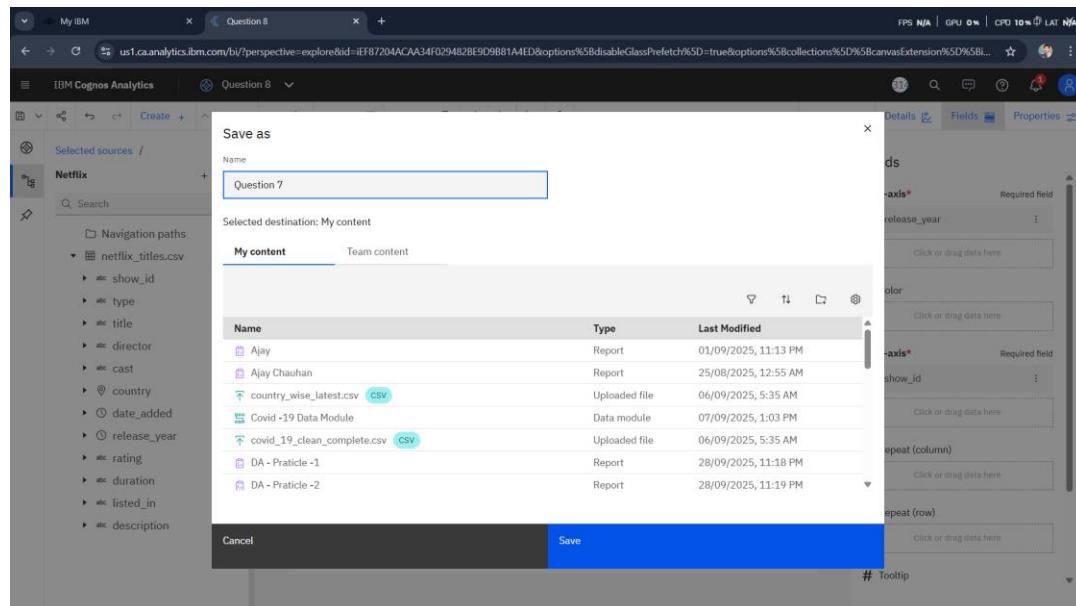
Step 12: - Click on the summarize, then click `Count` count. After that, the display looks like this.



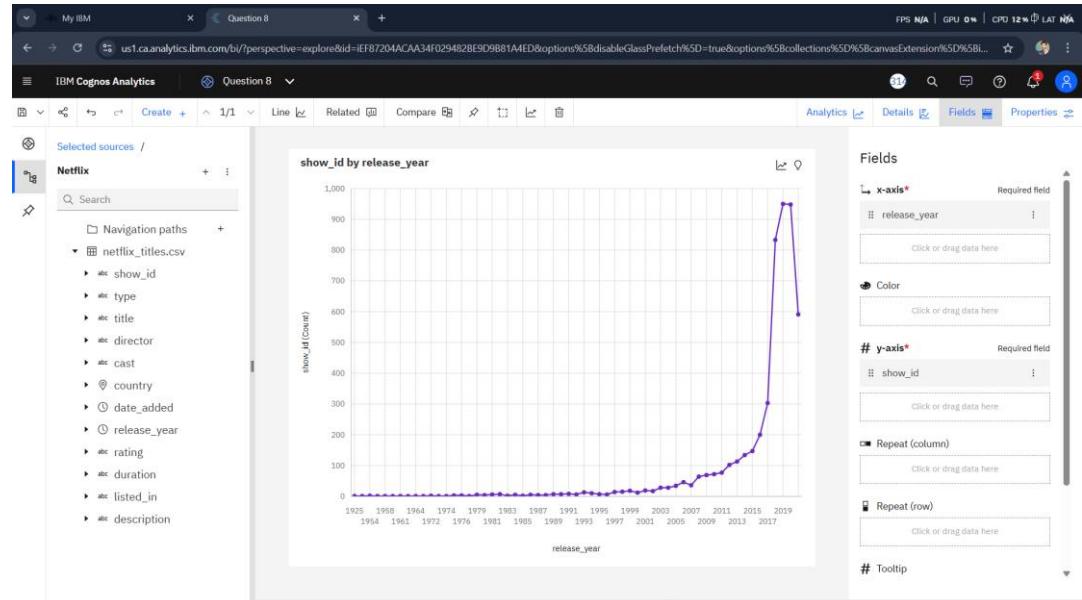
Step 13: - To save the report, click the small arrow  next to the Save icon (beside Edit). Select  Save As... "Save as".



Step 14: - After clicking on the Save As, they open a Save As box, and now choose My content. Enter the name of the report ("Question-07"), then click  icon.



-  This shows how Netflix added more content over the years.

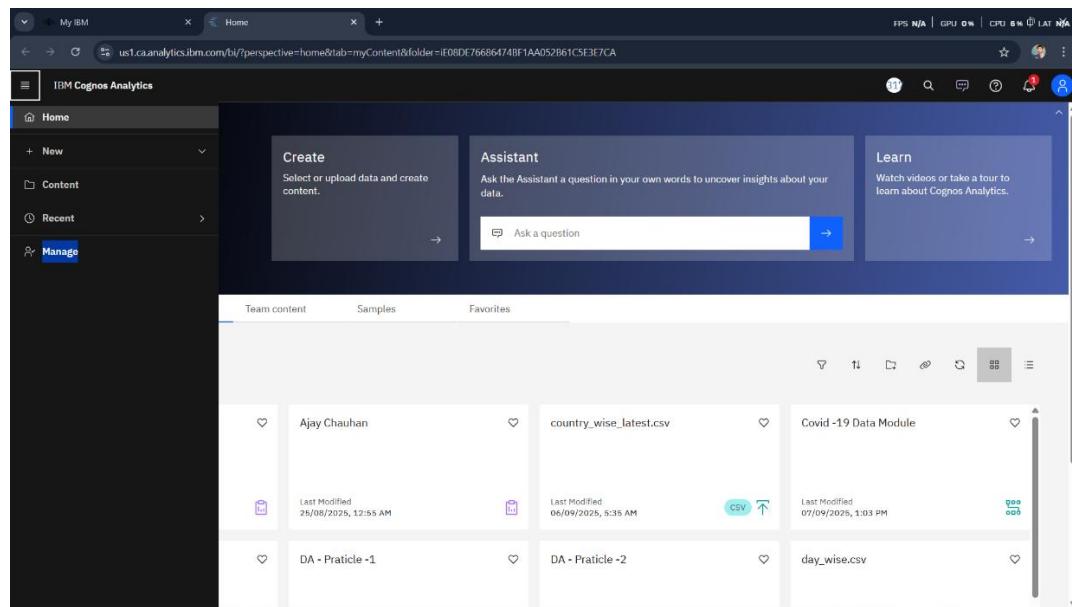


PROJECT

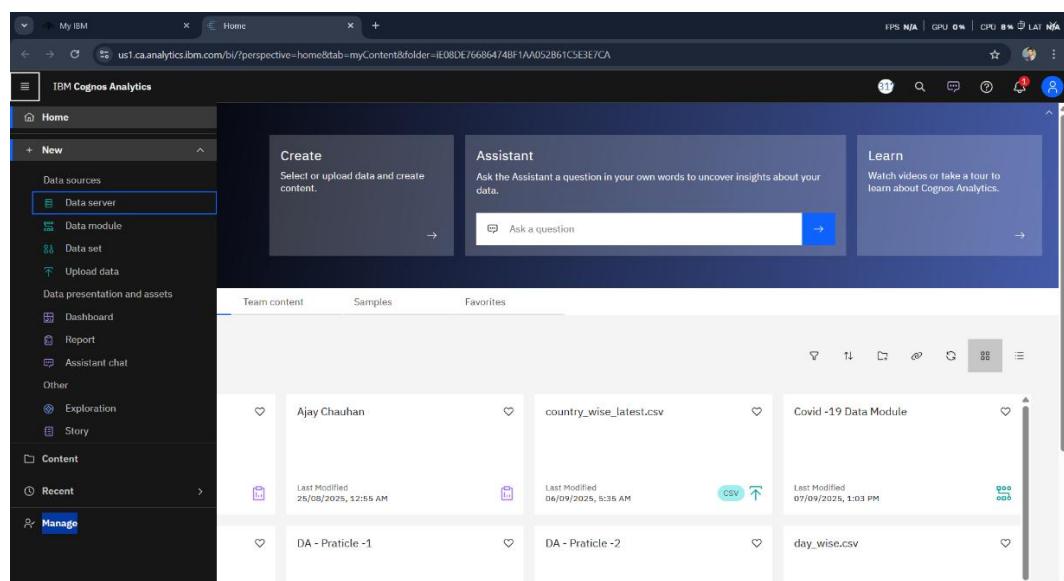
Problem Statement - 8: - Analyse the relationship between the release year and the description length of Netflix titles using a Scatter Chart.

Solution:

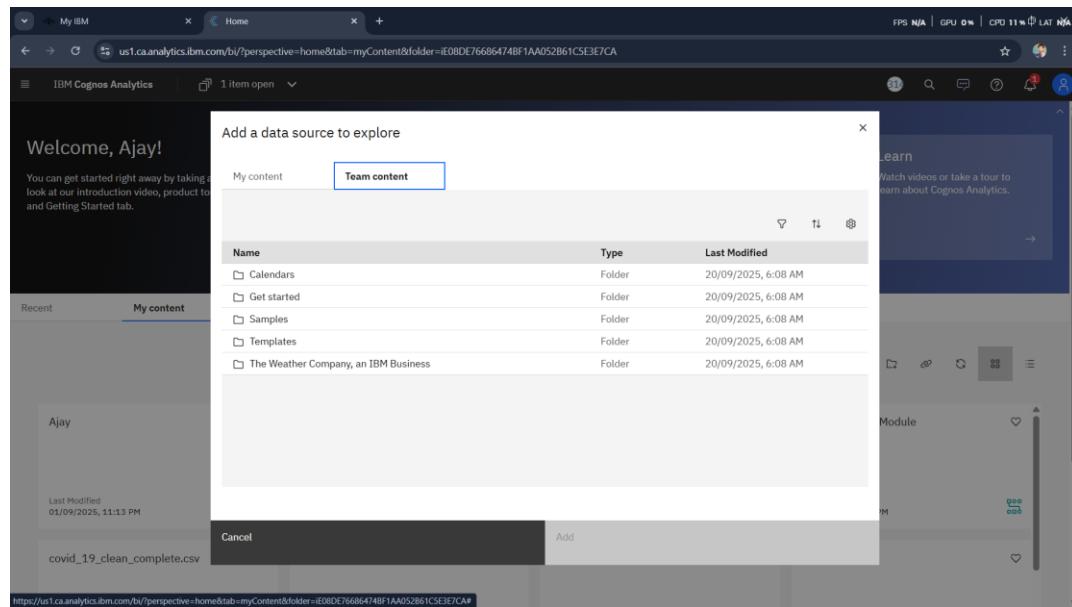
Step 1: - Click on the three lines (Open menu) icon at the top left corner in IBM Cognos homepage.



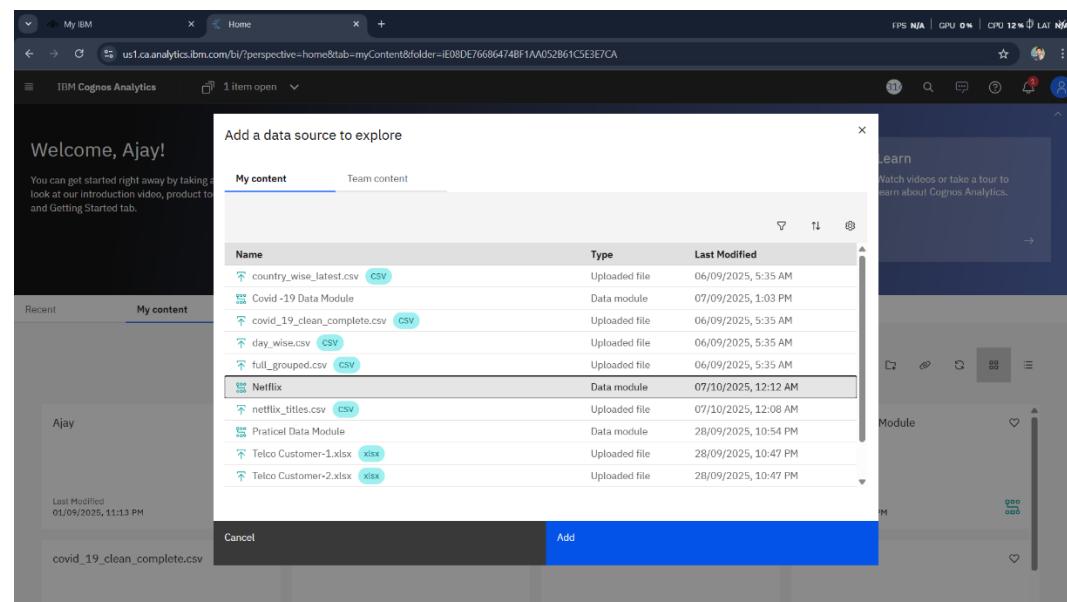
Step 2: - After the “Open menu” opens, click + New icon.



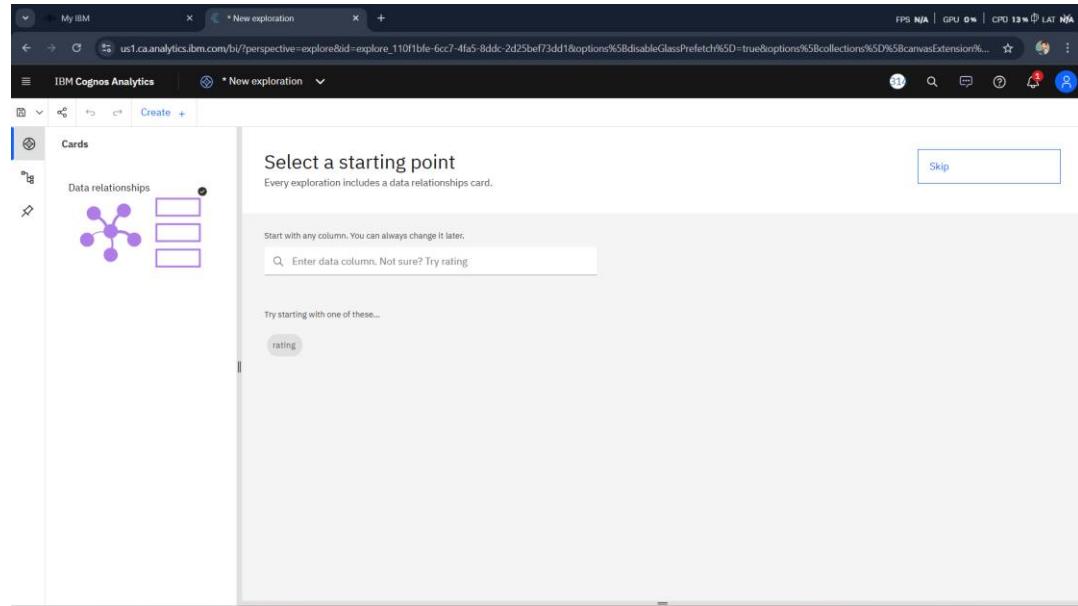
Step 3: - After clicking the “New icon”, from the menu, click the  Exploration icon for visualization.



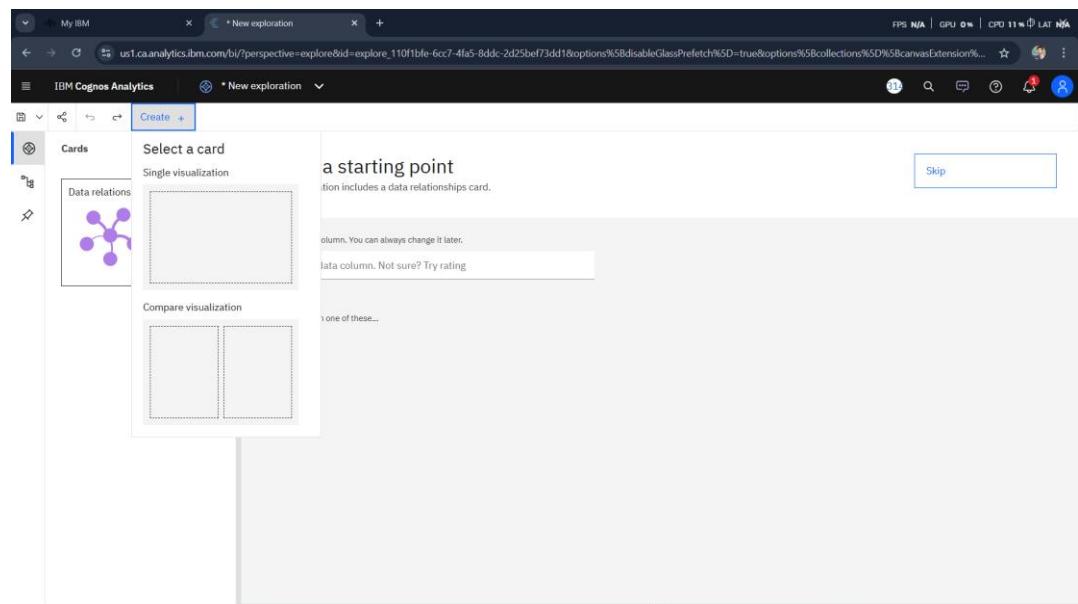
Step 4: - After clicking the exploration icon, open an “add a data source to explore” and click on my content. Then choose your data-module, then click  Add to upload your data-module.



- After clicking add display looks like this.



Step 5: - Click icon to choose a template.



Step 6: - After that, click “Single visualization”. Looks like this.

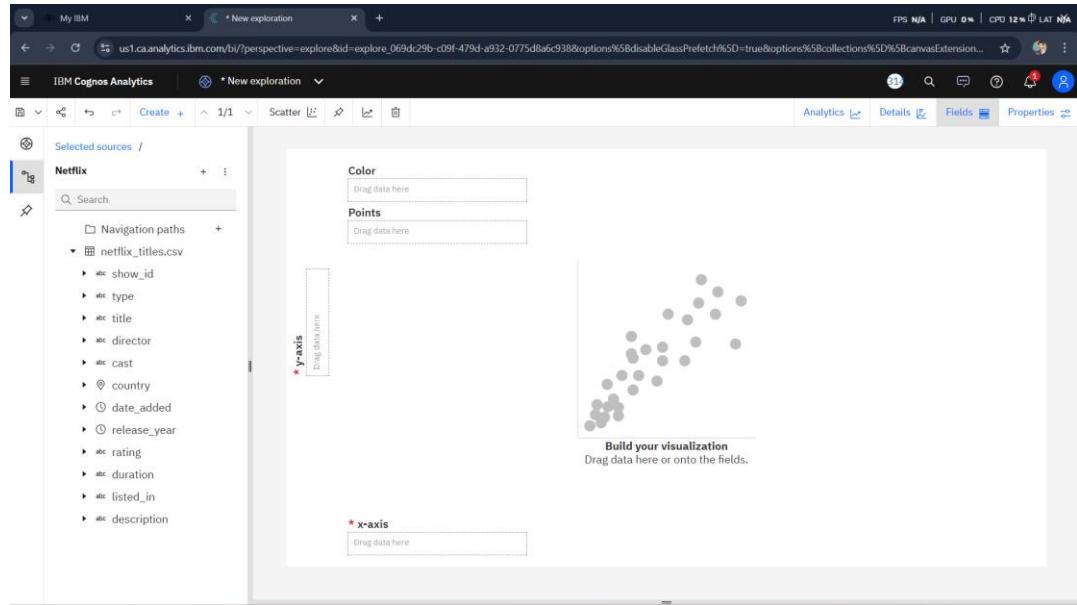
The screenshot shows the IBM Cognos Analytics interface. On the left, there's a sidebar with 'Cards' and 'Data relationships'. In the center, a large white area has the heading 'Create a visualization' with the sub-instruction 'Drag and drop fields or choose visualization type'. Below this is a blue button labeled 'Choose a type'. On the right, there's a section titled 'Fields' with a single cube icon and the message 'No visualization created. Create a visualization to manage the field settings.'

Step 7: - Click **Choose a type** icon, then open the types of visualizations.

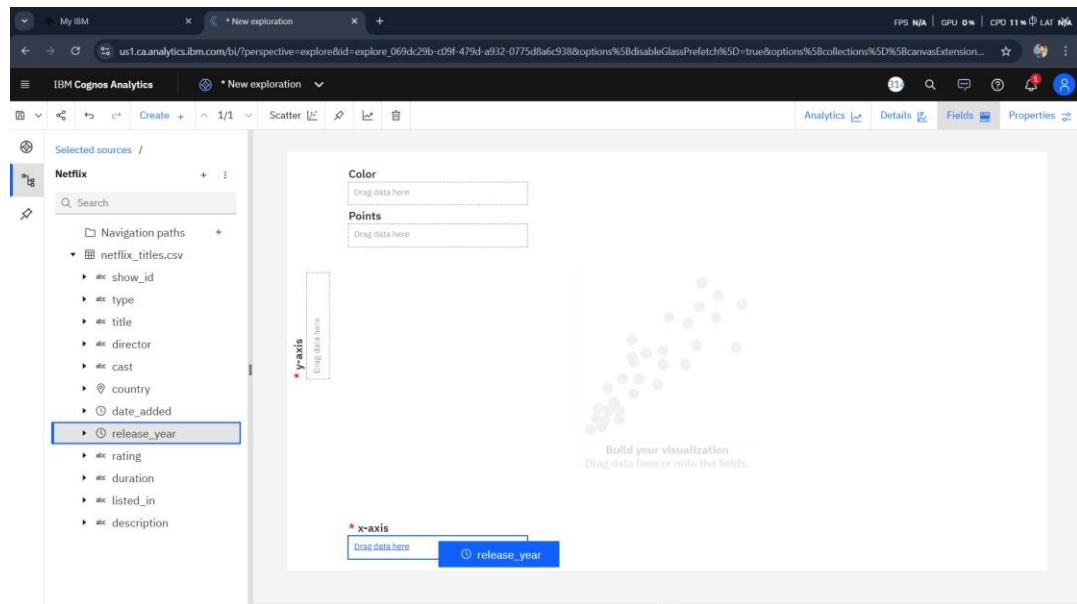
This screenshot shows the 'Choose visualization type' dialog box from the IBM Cognos Analytics interface. The dialog is divided into several sections: 'Comparison' (Bar, Bullet, Column, Dual-axis column, Dual-axis line, Heat map, Line and column, Marimekko, Radar, Radial, Stacked bar, Stacked column, Tornado, Word cloud), 'Parts to whole' (Hierarchy bubble, Packed bubble, Pie, Tree map), 'Trend' (Area, Box plot, Dual-axis column, Dual-axis line, Line, Line and column, Point, Radial, Tornado, Waterfall), and 'Relationships' (LO, Bar, QoV, I:O, Line chart, Point chart, Radar chart, Waterfall chart). At the bottom, there are tabs for 'Tables and summary'.

GROUP NUMBER: 1

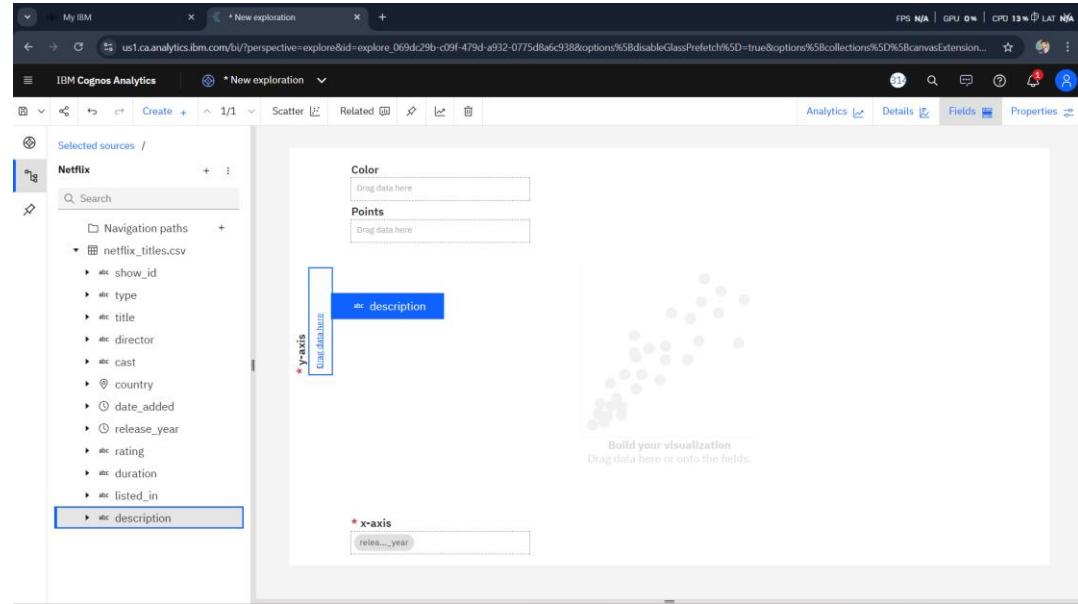
Step 8: - Scroll the screen, then click  icon, then open a line-chart. After clicking the scatter chart, the display looks like this.



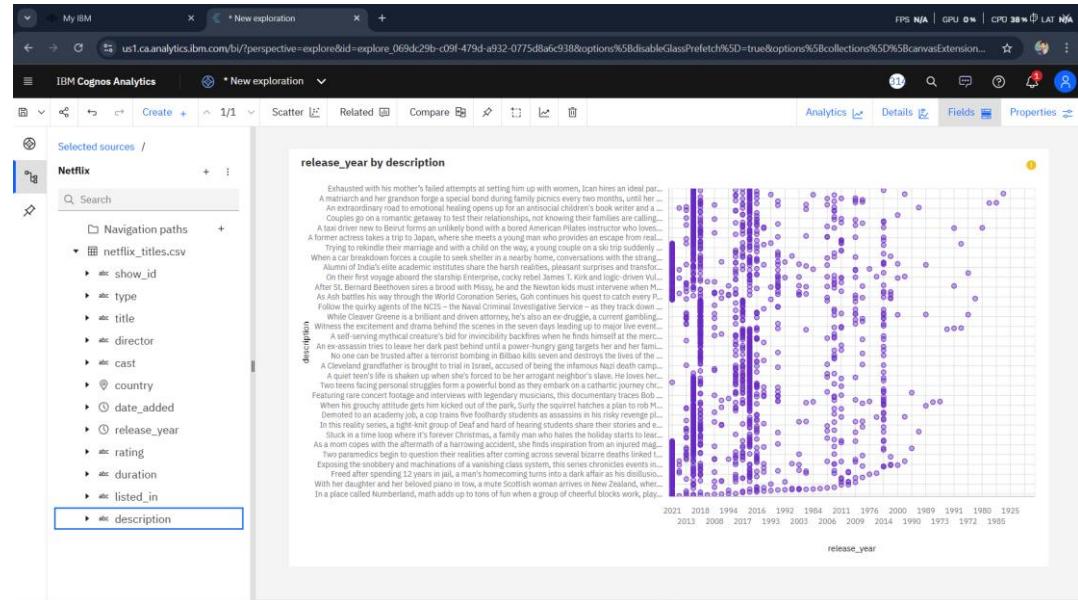
Step 9: - From the left side, drag  release_year "release_year" on the x-axis.



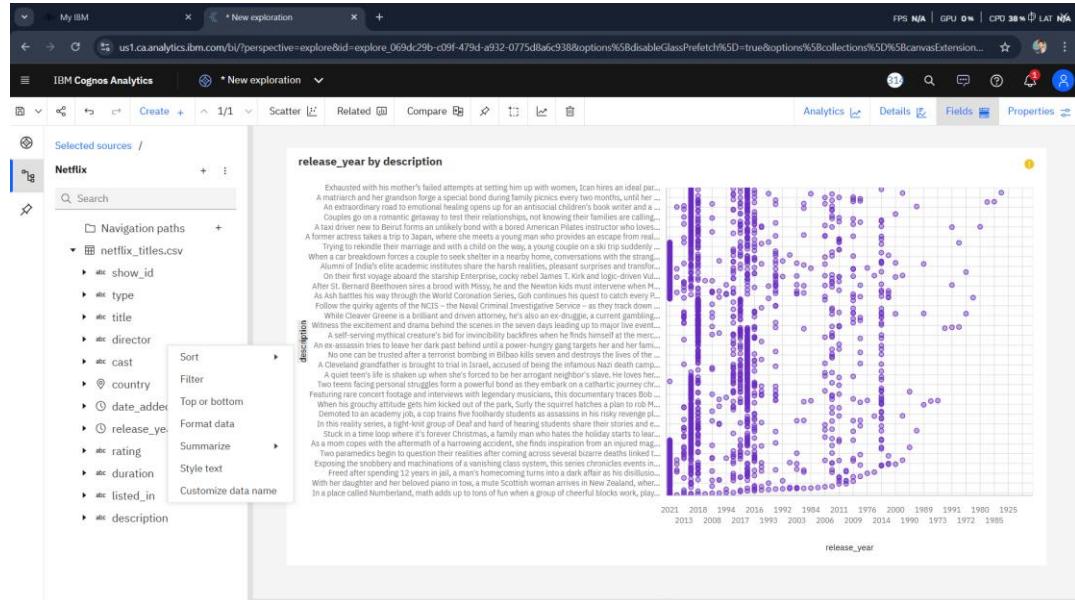
Step 10: - From the left side, drag "description" on the y-axis.



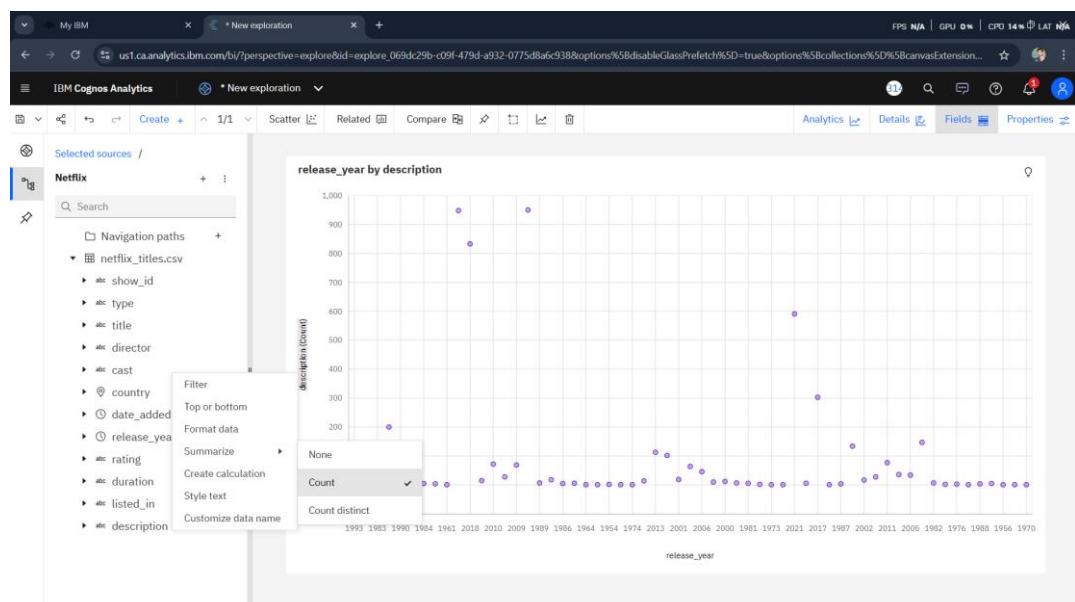
○ After adding the x-axis and the y-axis, the display looks like this.



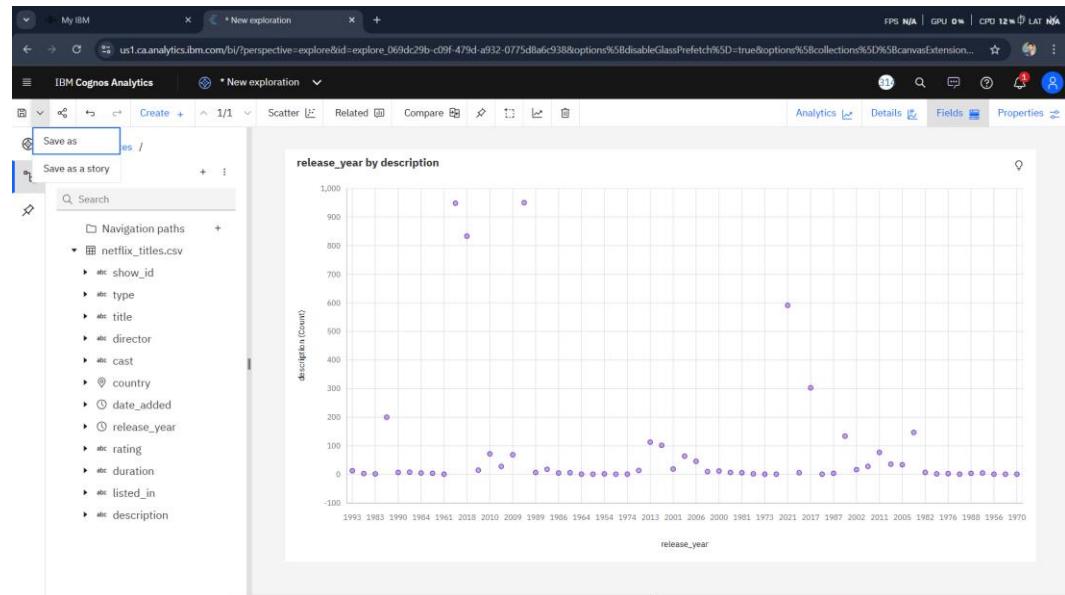
Step 11: - For applying summarizing on **description**, Mouse right click then open multiples summarize options.



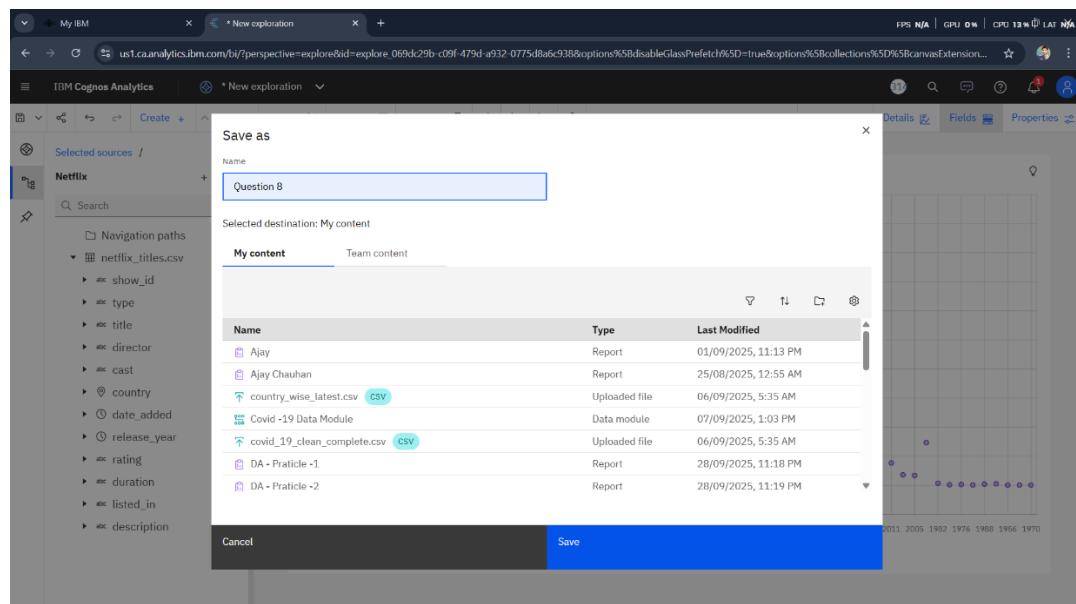
Step 12: - Click on the summarize, then click **Count** count. After that, the display looks like this.



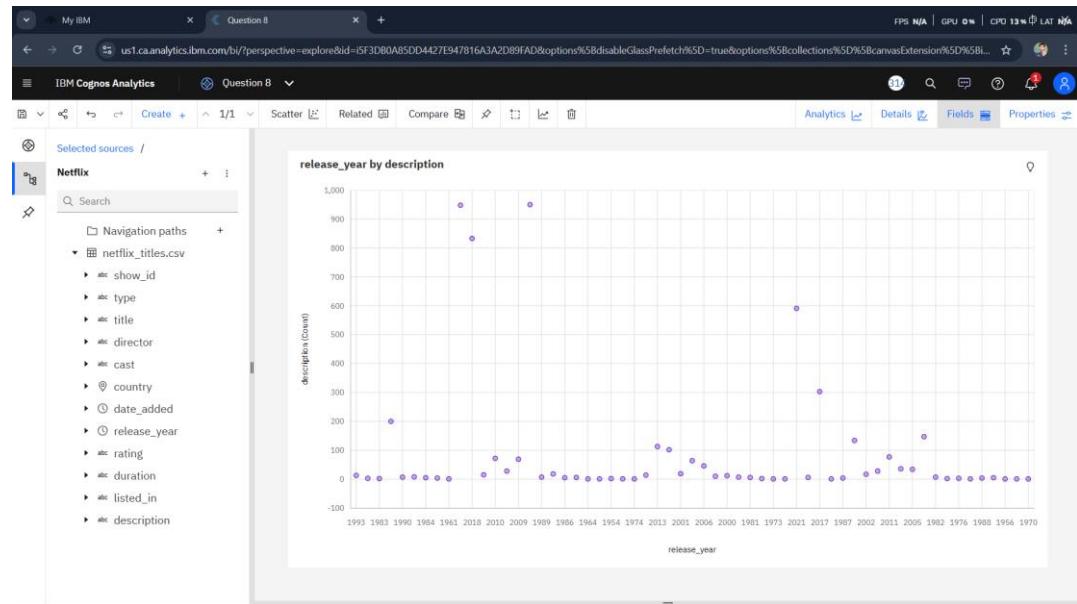
Step 13: - To save the report, click the small arrow  next to the Save icon (beside Edit). Select  Save As... “Save as”.



Step 14: - After clicking on the Save As, they open a Save As box, and now choose My content. Enter the name of the report (“Question-07”), then click  icon.



- After that show the points will move upward year by year → meaning Netflix added **more content** each year.

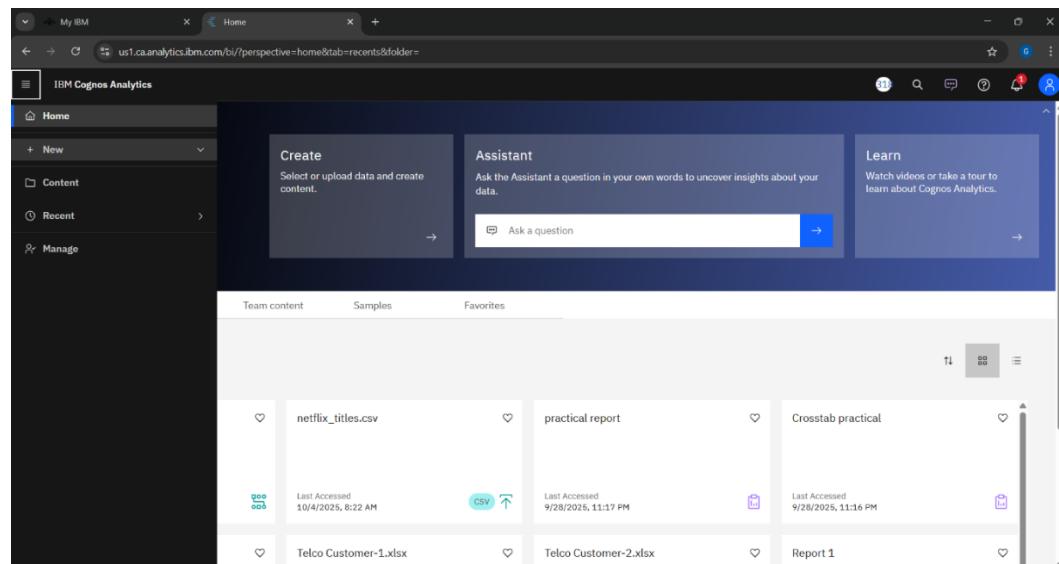


PROJECT

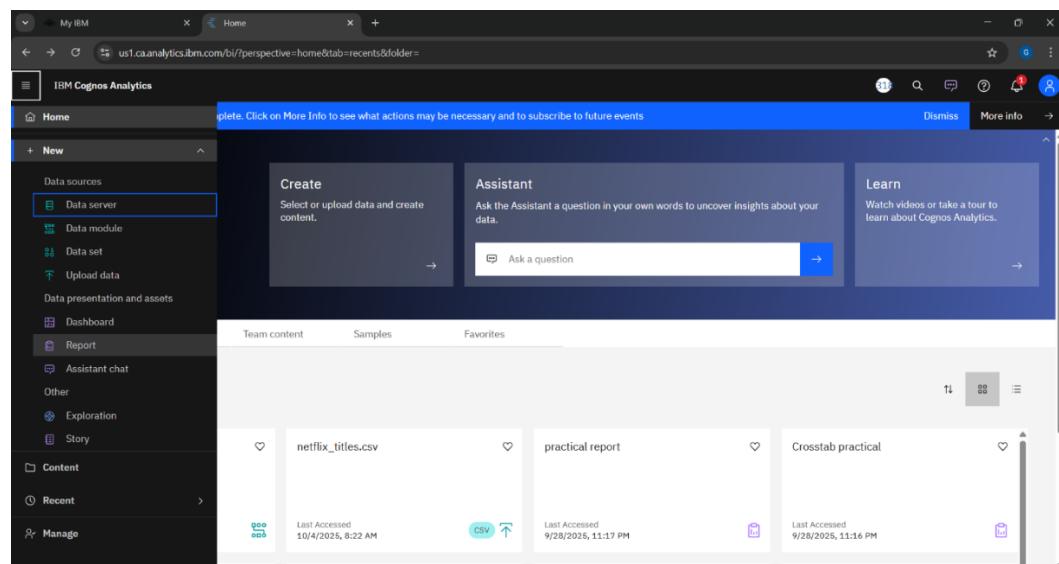
Problem Statement - 09: - Generate a list report using a Table Report showing each country and the total number of titles produced.

Solution:

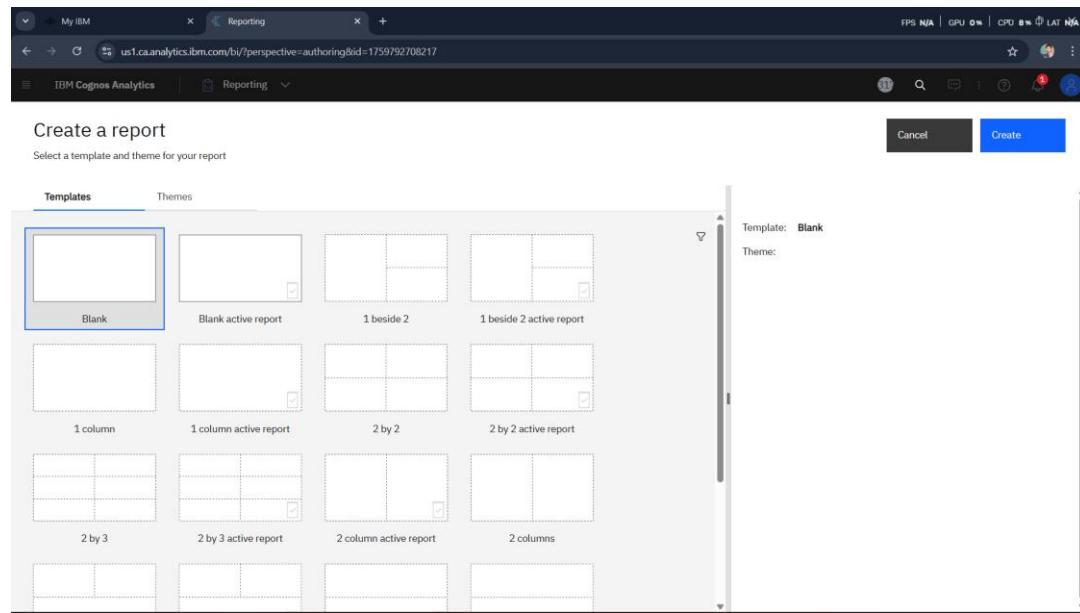
Step 1: - After creating the data module, click on  (open menu) and select New.



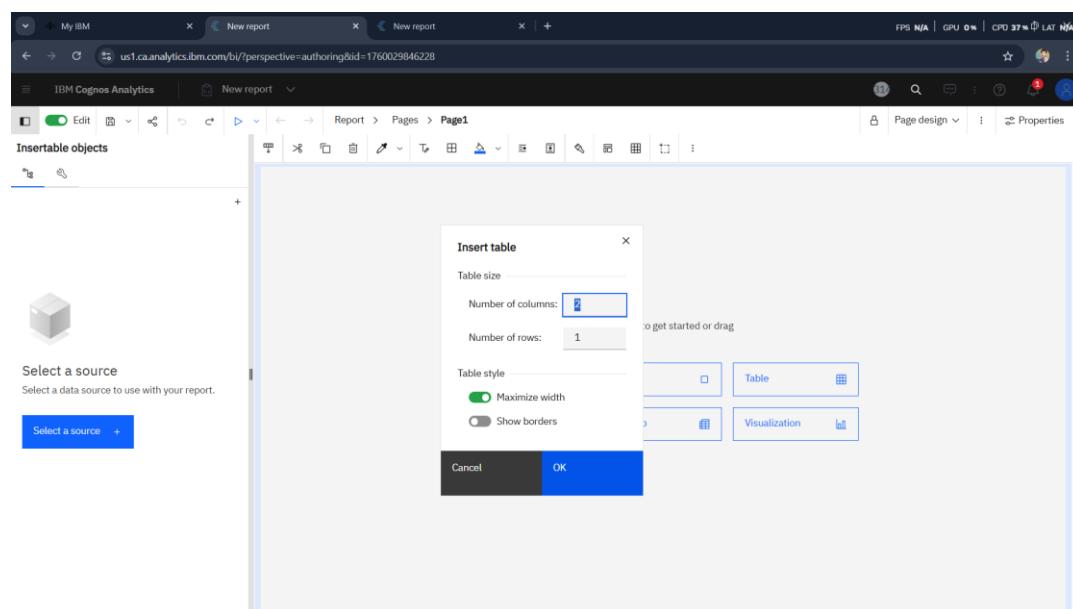
Step 2: - Select Report.



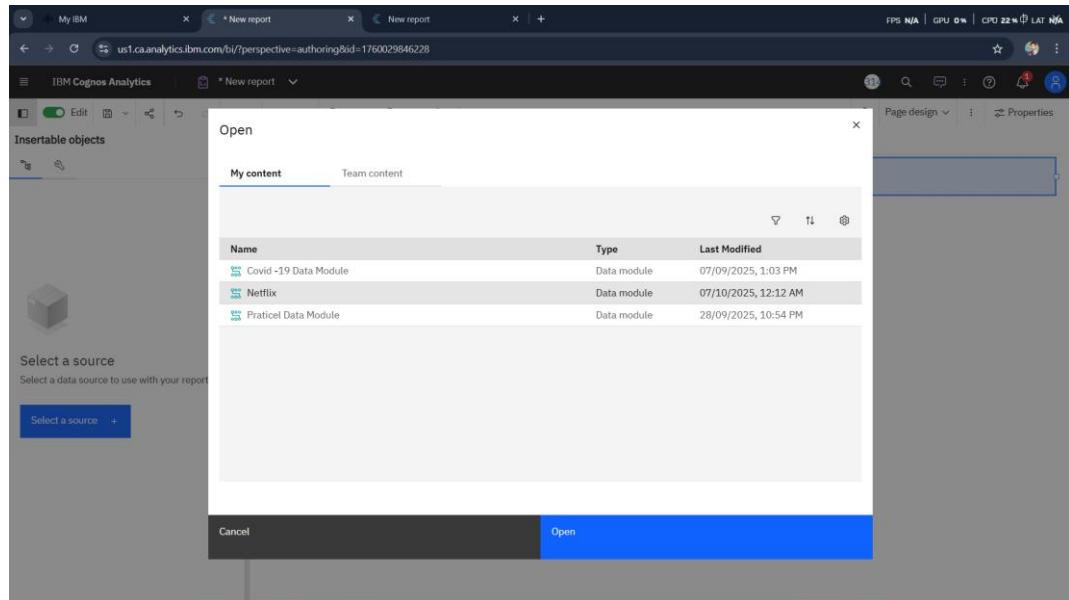
Step 3: - After clicking Report, check if Blank (Blank) is already selected — if it is, click Create icon; if not, choose first Blank, then click Create.



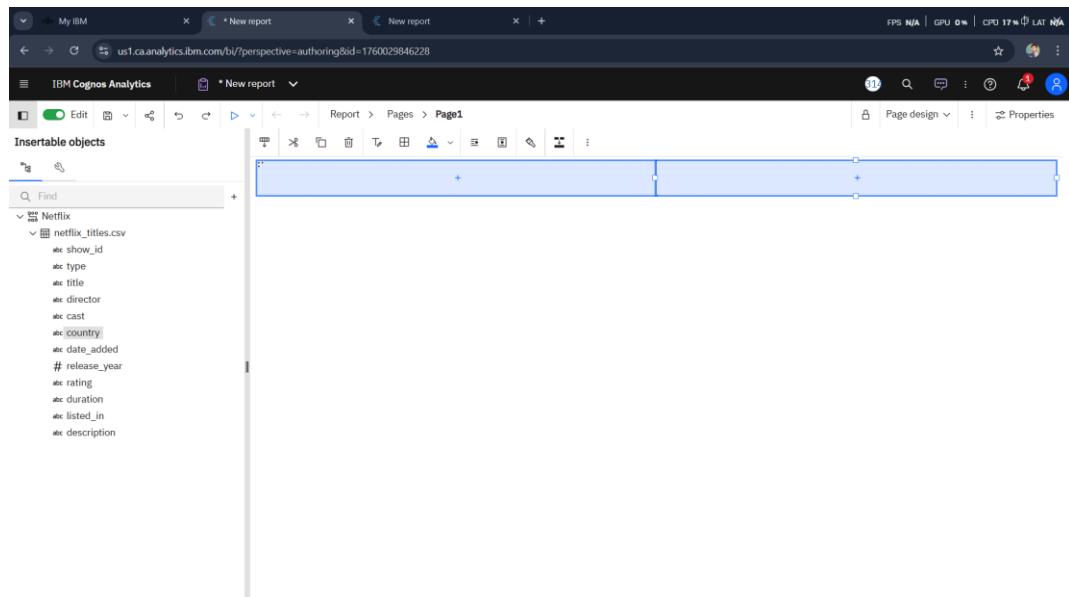
Step 4: - After clicking Create, the **Templates** dialog box appears. From the list of templates, select the Table (List) icon, and then click the table to open an “insert table box”. Fill number of columns is 2, and the number of rows is 1, then click on the OK icon to proceed.



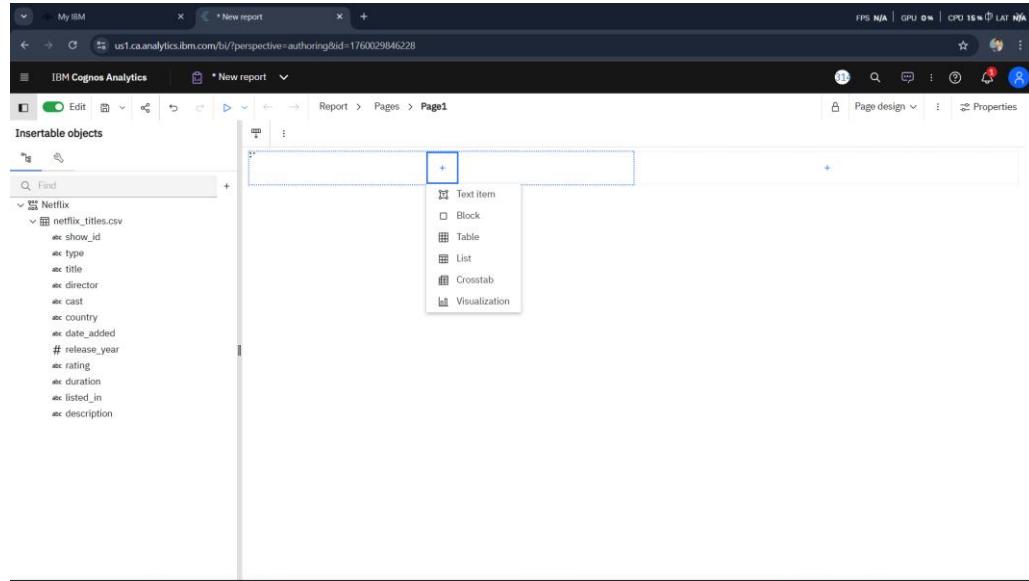
Step 5: - On the left side, click **Select a source** + (Select a Source) → Choose Data Module (Netflix) in “my content” → Click **Open** “Open” icon.



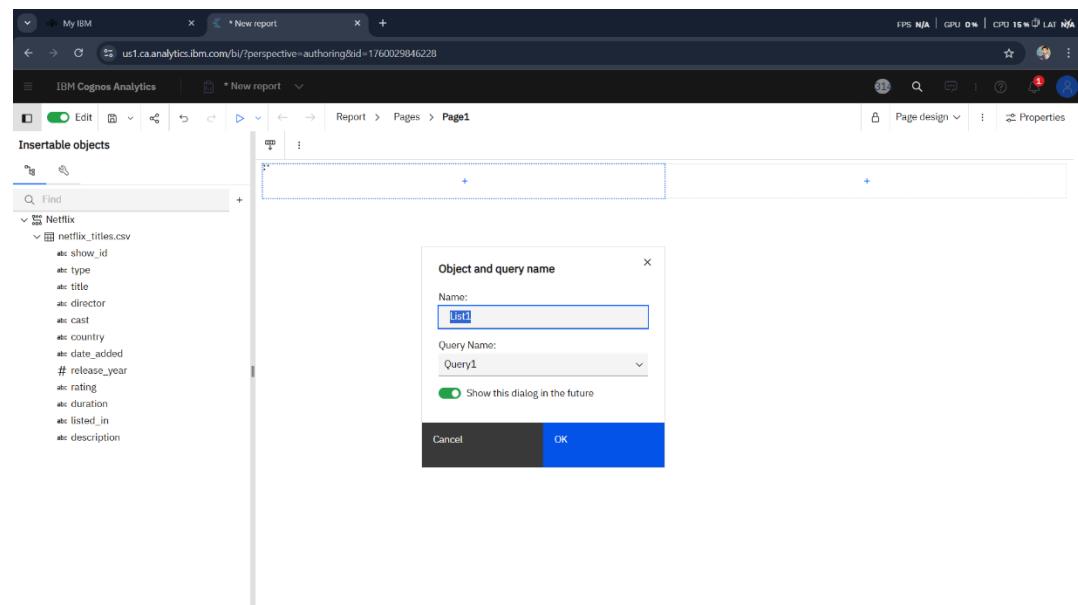
Step 6: - After the data loads, you will see your data module. Click on the > for expand your data item. After that, you look (e.g., show_id, title, country, listed_in, release_year, etc.) in the **Data Items** pane.



Step 7: - Now, click on the “+” insert icon on column 1. Click on the list.



Step 8: - After that, click on the icon, then generate the List report.



- After generating list report display look like this.

The screenshot shows the IBM Cognos Analytics interface. On the left, there is a sidebar titled "Insertable objects" containing a tree view of data sources. Under "Netflix", there is a "netflix_titles.csv" node expanded, showing columns such as show_id, type, title, director, cast, country, date_added, release_year, rating, duration, listed_in, and description. The main workspace is a grid with the placeholder text "Drop items here to create new columns". The top navigation bar includes tabs for "Report", "Pages", and "Page1". The status bar at the bottom right shows system metrics: FPS N/A, GPU 0%, CPU 30%, and LAT N/A.

Step 9: - Now double-click on the `country` "country". Then add the country column in the List report.

This screenshot is similar to the previous one, but the "country" item under the "netflix_titles.csv" node in the "Insertable objects" sidebar is now highlighted with a blue selection box. The main workspace grid still has the placeholder text "Drop items here to create new columns". The rest of the interface, including the top navigation and status bar, remains the same.

Step 10: - Now, double-click on the `show_id` “show_id”. Then add the country column in the List report.

The screenshot shows the IBM Cognos Analytics interface. On the left, there is an 'Insertable objects' tree view under the 'Netflix' node, with 'show_id' selected. In the center, a list report is displayed with two columns: 'country' and 'show_id'. The 'show_id' column contains three rows: '<country> <show_id>', '<country> <show_id>', and '<country> <show_id>'.

Step 11: - Click any value in “show_id’s”, click on the Σ icon, and click on the `# Count`. Apply the count summary to the “show_id” column.

The screenshot shows the same IBM Cognos Analytics interface as before, but now the 'show_id' column has a summary applied. A context menu is open over the first row of the 'show_id' column, with the '# Count' option highlighted. A tooltip for '# Count' is visible, showing it as a 'Default summary'.

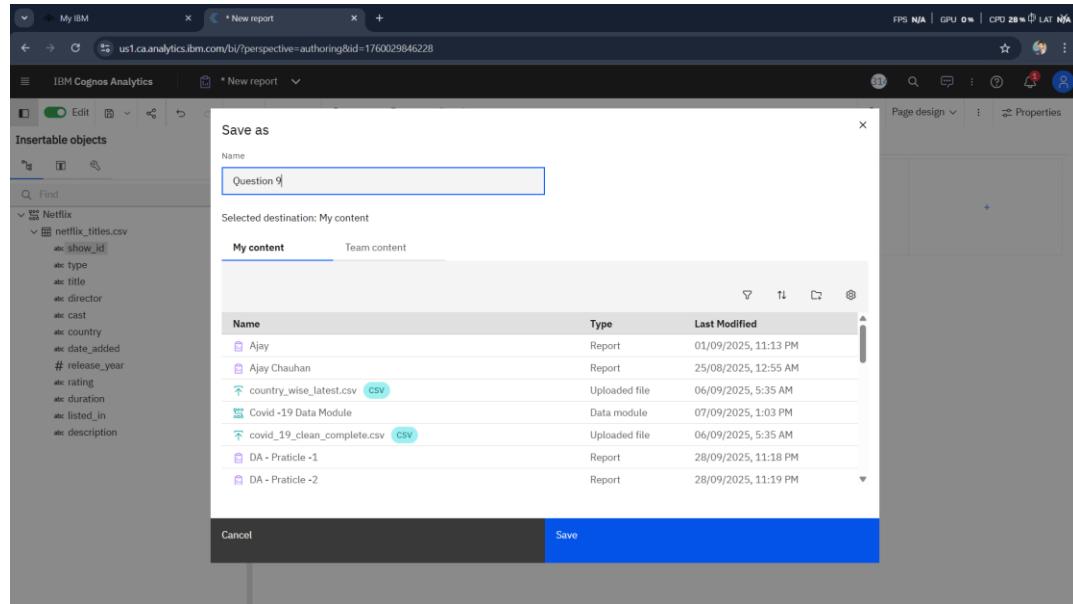
- After applying the summary, the display looks like this.

The screenshot shows the IBM Cognos Analytics report editor interface. On the left, there's an 'Insertable objects' pane with a tree view of a 'Netflix' dataset, including tables like 'netflix_titles.csv' and its columns such as 'show_id', 'type', 'title', etc. The main workspace displays a table with three rows: 'country' and 'show_id'. The third row is highlighted with a blue border and contains the text 'Overall - Count <Count(show_id)>'. The top right of the screen shows system status: FPS N/A, GPU 0%, CPU 19%, and LAT N/A.

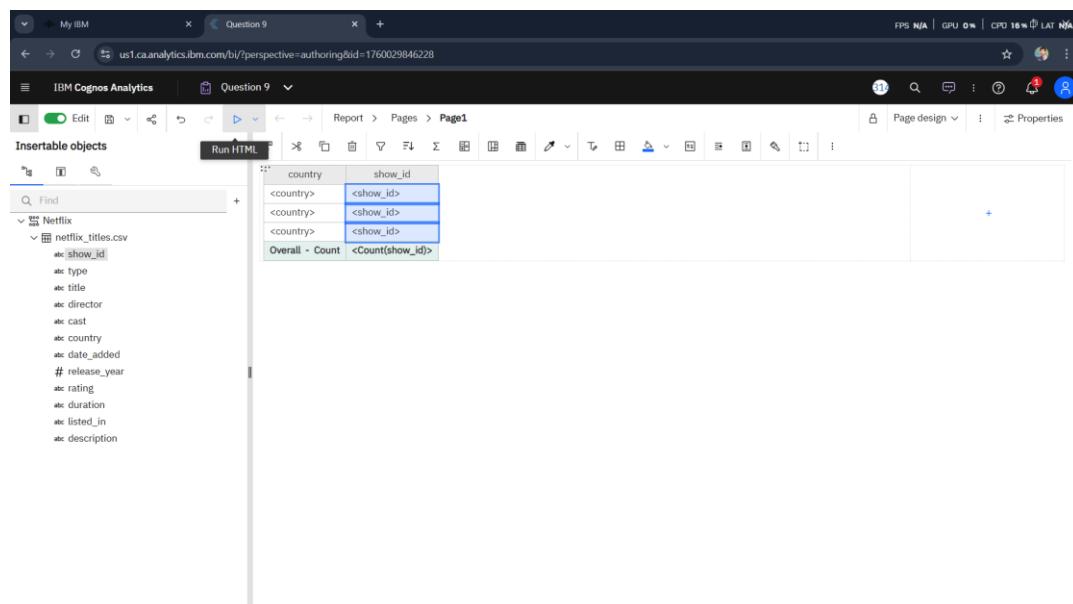
Step 12: To save the report, click the small arrow next to the Save icon (beside Edit).
Select "Save as".

This screenshot is similar to the previous one but shows a context menu open over the 'Edit' button in the toolbar. The menu has three options: 'Convert to Template', 'Convert to Active Report', and 'Save As...'. The 'Save As...' option is highlighted with a blue background. The rest of the interface and data structure are identical to the first screenshot.

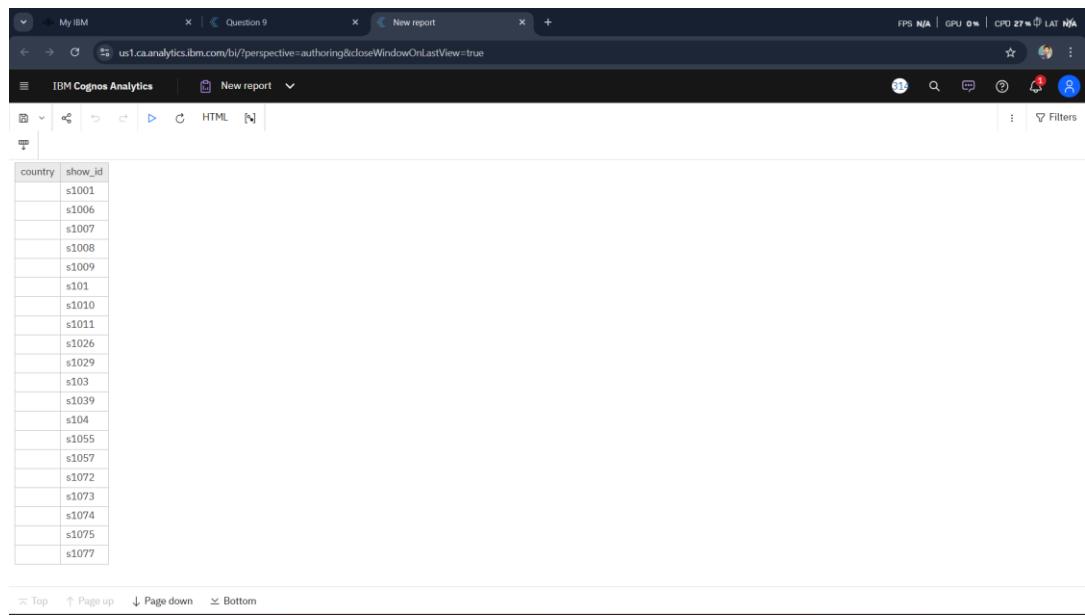
Step 13: - After clicking on the Save As, they open a Save As box, and now choose My content. Enter the name of the report (“Question-9”), then click **Save** icon.



Step 14: - After saving, to run the report, click the Run icon, which is just below the report name.



- After running, show the report like this.

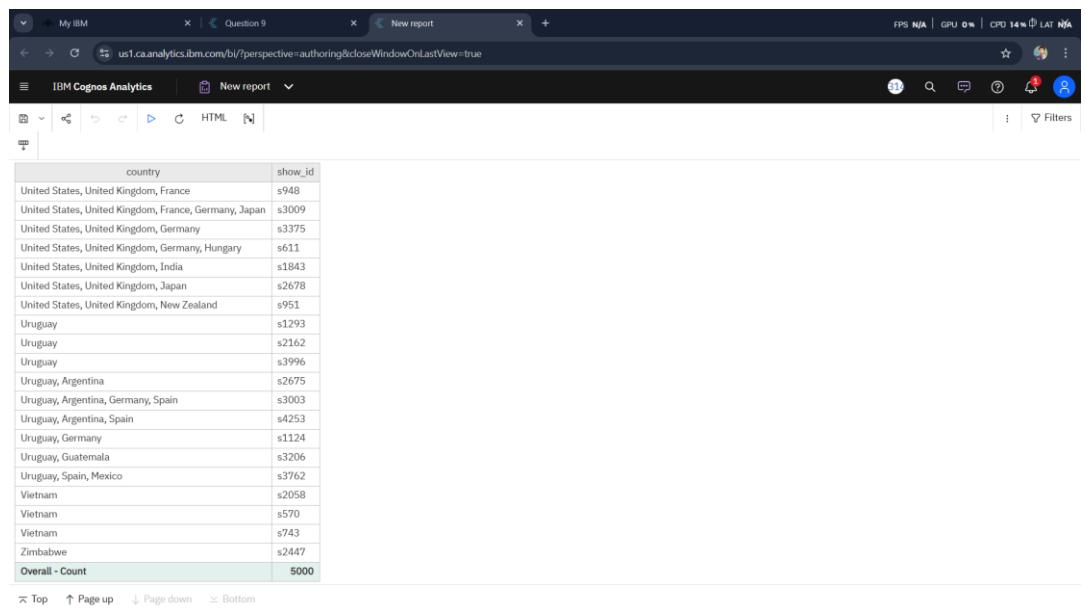


A screenshot of a web browser displaying an IBM Cognos Analytics report. The report consists of a single table with two columns: 'country' and 'show_id'. The data rows are as follows:

country	show_id
	s1001
	s1006
	s1007
	s1008
	s1009
	s101
	s1010
	s1011
	s1026
	s1029
	s103
	s1039
	s104
	s1055
	s1057
	s1072
	s1073
	s1074
	s1075
	s1077

At the bottom of the table, there are navigation links: Top, Page up, Page down, and Bottom.

- Click Bottom, then show the overall – count.



A screenshot of a web browser displaying an IBM Cognos Analytics report. The report consists of a table with two columns: 'country' and 'show_id'. The data rows are as follows:

country	show_id
United States, United Kingdom, France	s948
United States, United Kingdom, France, Germany, Japan	s3009
United States, United Kingdom, Germany	s3375
United States, United Kingdom, Germany, Hungary	s611
United States, United Kingdom, India	s1843
United States, United Kingdom, Japan	s2678
United States, United Kingdom, New Zealand	s951
Uruguay	s1293
Uruguay	s2162
Uruguay	s3996
Uruguay, Argentina	s2675
Uruguay, Argentina, Germany, Spain	s3003
Uruguay, Argentina, Spain	s4253
Uruguay, Germany	s1124
Uruguay, Guatemala	s3206
Uruguay, Spain, Mexico	s3762
Vietnam	s2058
Vietnam	s570
Vietnam	s743
Zimbabwe	s2447
Overall - Count	5000

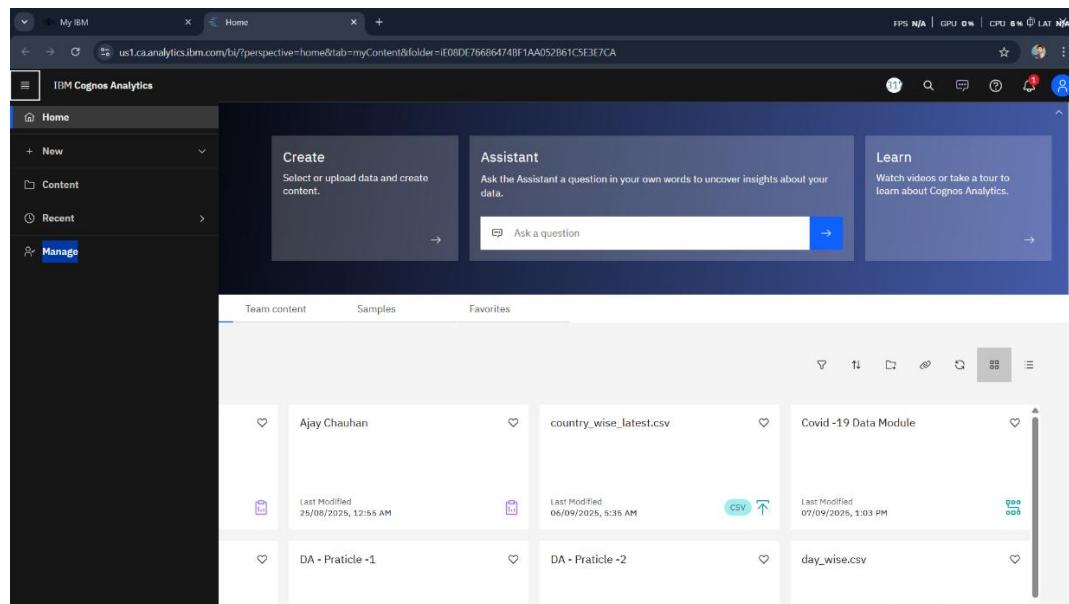
At the bottom of the table, there are navigation links: Top, Page up, Page down, and Bottom.

PROJECT

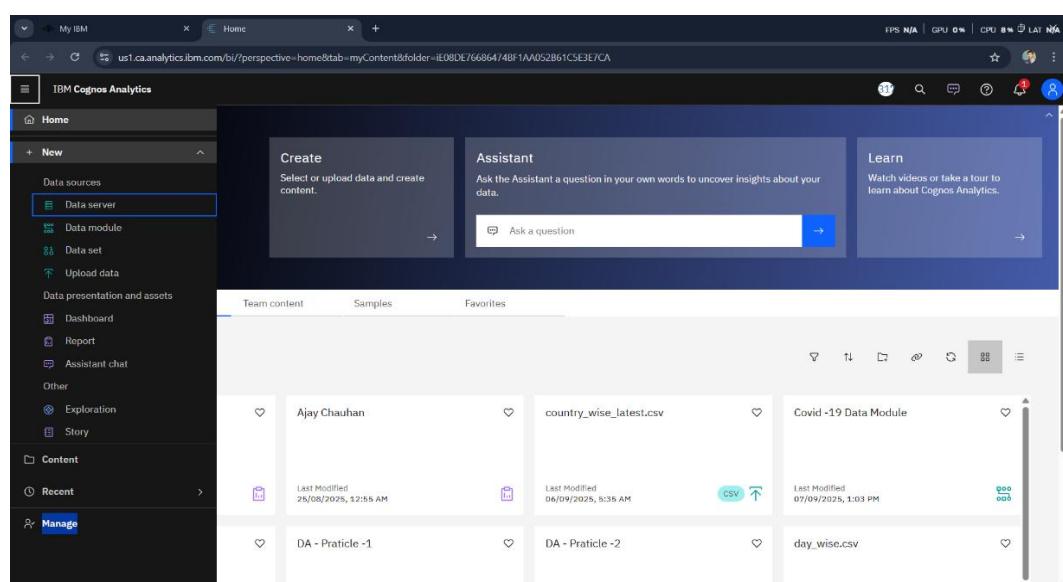
Problem Statement - 10: - Analyse the Total Count and Percentage Share of Movies and TV Shows using a Pie Chart.

Solution:

Step 1: - Click on the three lines (Open menu) icon at the top left corner in IBM Cognos homepage.



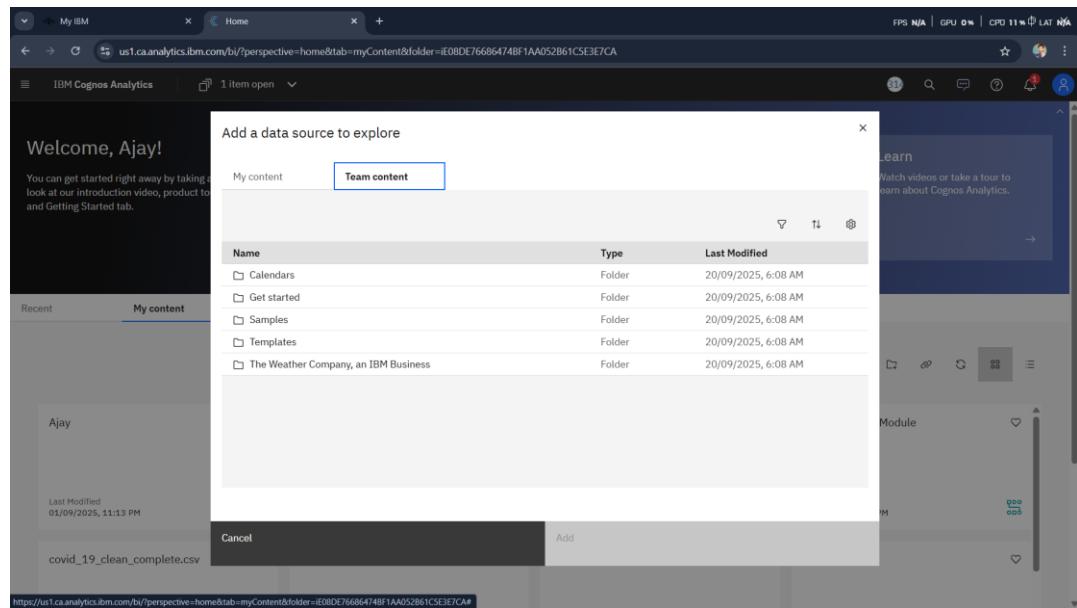
Step 2: - After the “Open menu” opens, click on the “new” + **New** icon.



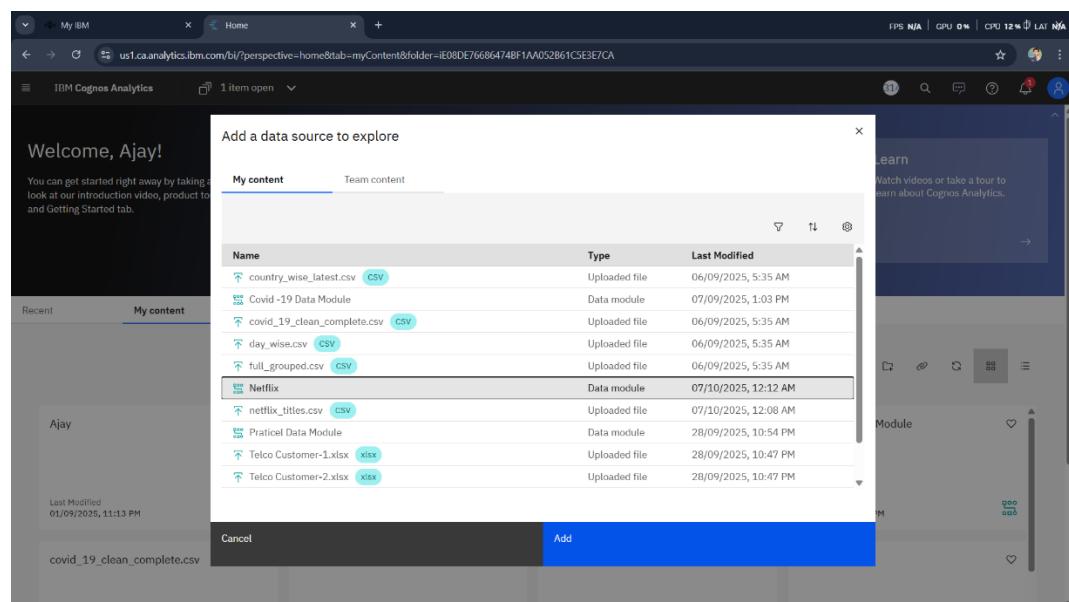
Step 3: - After clicking the “New icon”, from the menu, click the Exploration icon for

GROUP NUMBER: 1

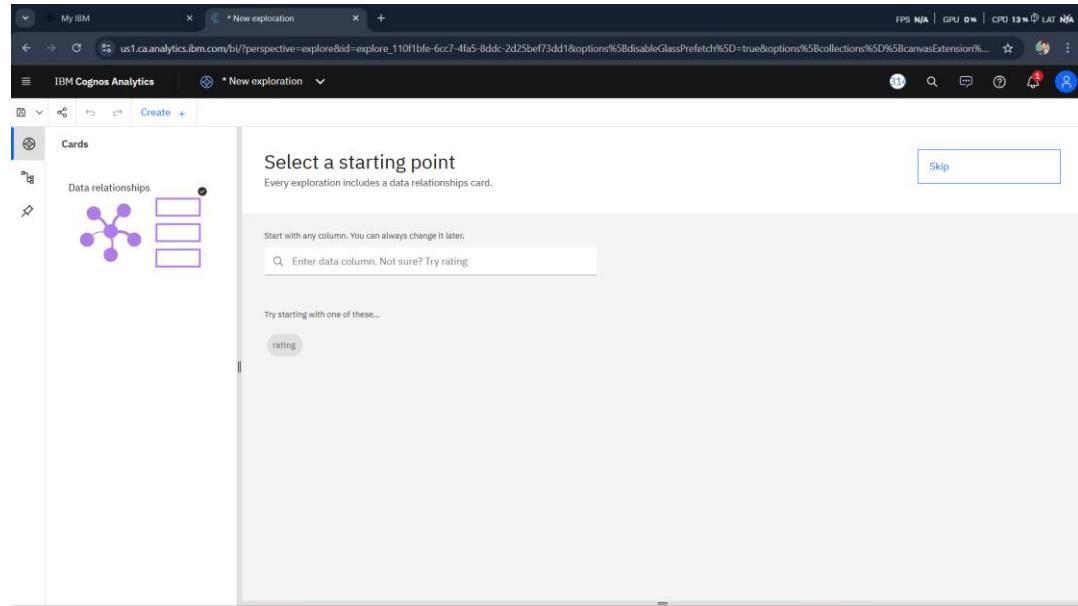
visualization.



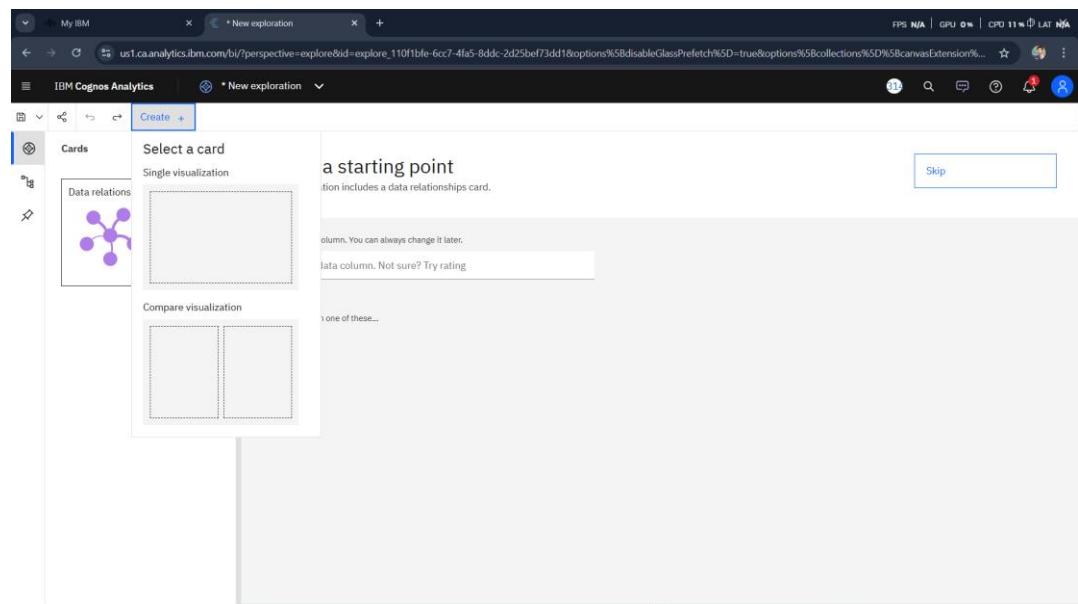
Step 4: - After clicking the exploration icon, open an “add a data source to explore” and click on my content. Then choose your data-module, then click **Add** to upload your data-module.



- After clicking add display looks like this.



Step 5: - Click icon to choose a template.



Step 6: - After that, click “Single visualization”. Looks like this.

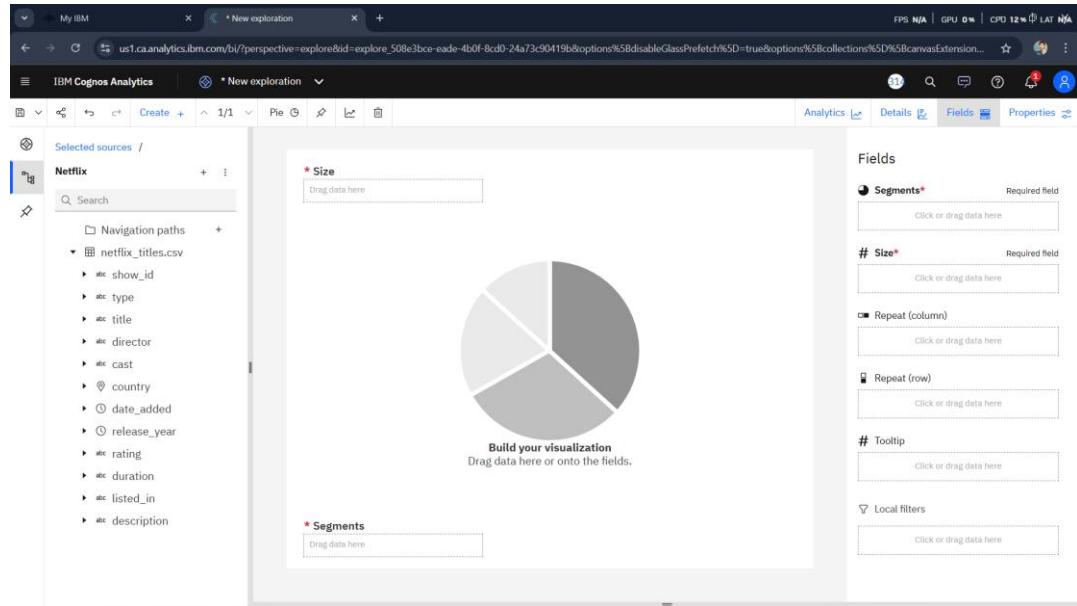
The screenshot shows the IBM Cognos Analytics interface. On the left, there's a sidebar with 'Cards' and 'Data relationships'. In the center, a large white area has the heading 'Create a visualization' with the sub-instruction 'Drag and drop fields or choose visualization type'. Below this is a blue button labeled 'Choose a type'. On the right, there's a section titled 'Fields' with a single cube icon and the message 'No visualization created. Create a visualization to manage the field settings.'

Step 7: - Click **Choose a type** icon, then open the types of visualizations.

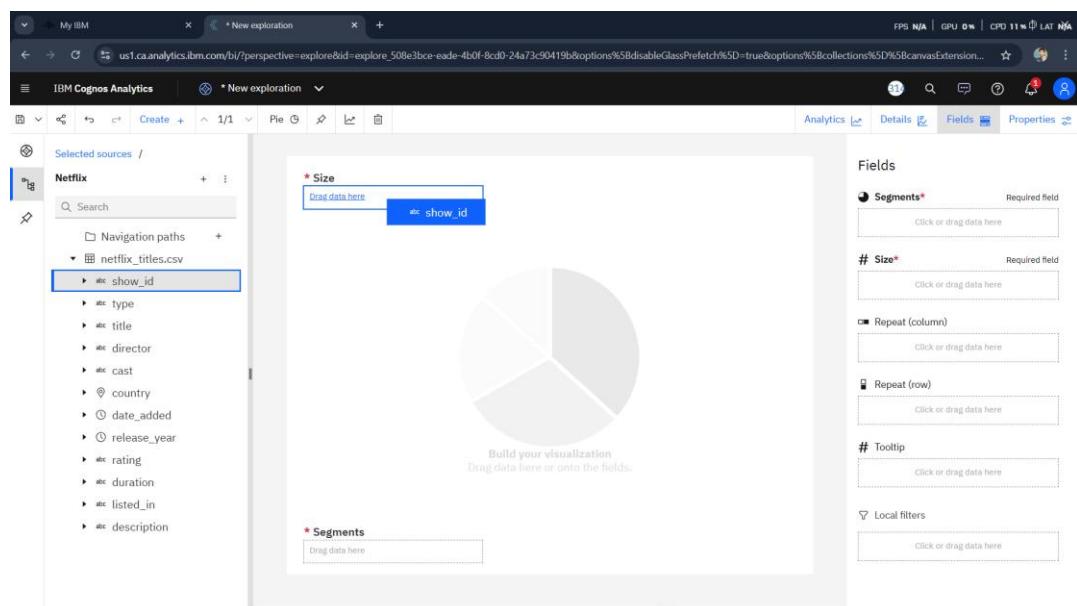
This screenshot shows the 'Choose visualization type' dialog box from the IBM Cognos Analytics interface. The dialog is divided into several sections: 'Comparison' (Bar, Bullet, Column, Dual-axis column, Dual-axis line, Heat map, Line and column, Marimekko, Radar, Radial, Stacked bar), 'Parts to whole' (Hierarchy bubble, Packed bubble, Pie, Tree map), 'Trend' (Area, Box plot, Dual-axis column, Dual-axis line, Line, Line and column, Point, Radial, Tornado, Waterfall), and 'Relationships' (LO, Bar, QoV, I:O, Line chart, Point chart, Radar chart, Waterfall chart). At the bottom of the dialog, there are tabs for 'Tables and summary'.

GROUP NUMBER: 1

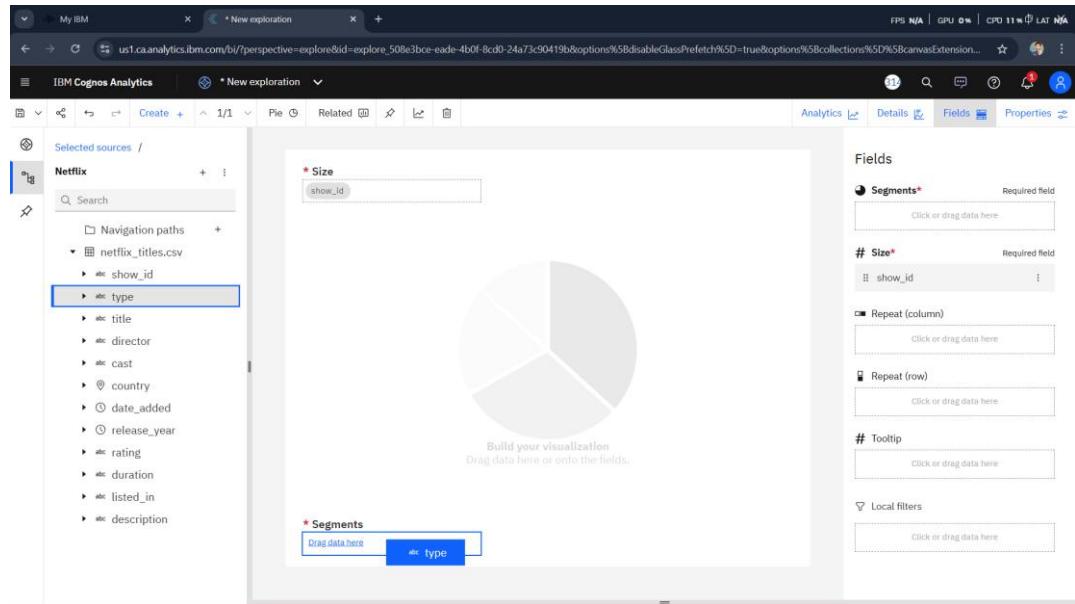
Step 8: - Scroll the screen, then click  icon, then open a line-chart. After clicking the scatter chart, the display looks like this.



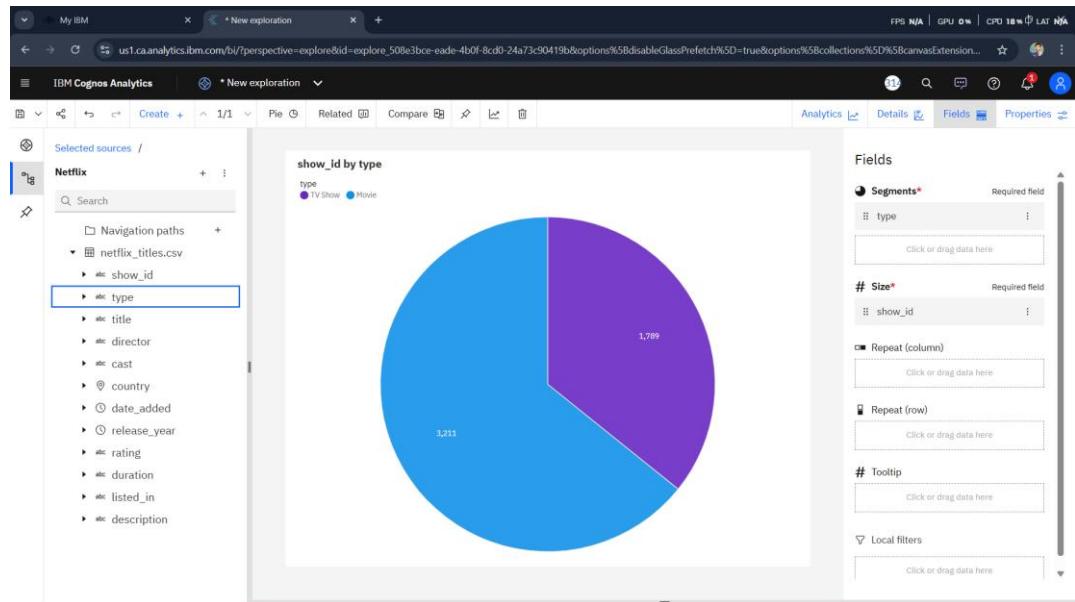
Step 9: - From the left side, drag  'show_id' "show_id" on the size for measure.



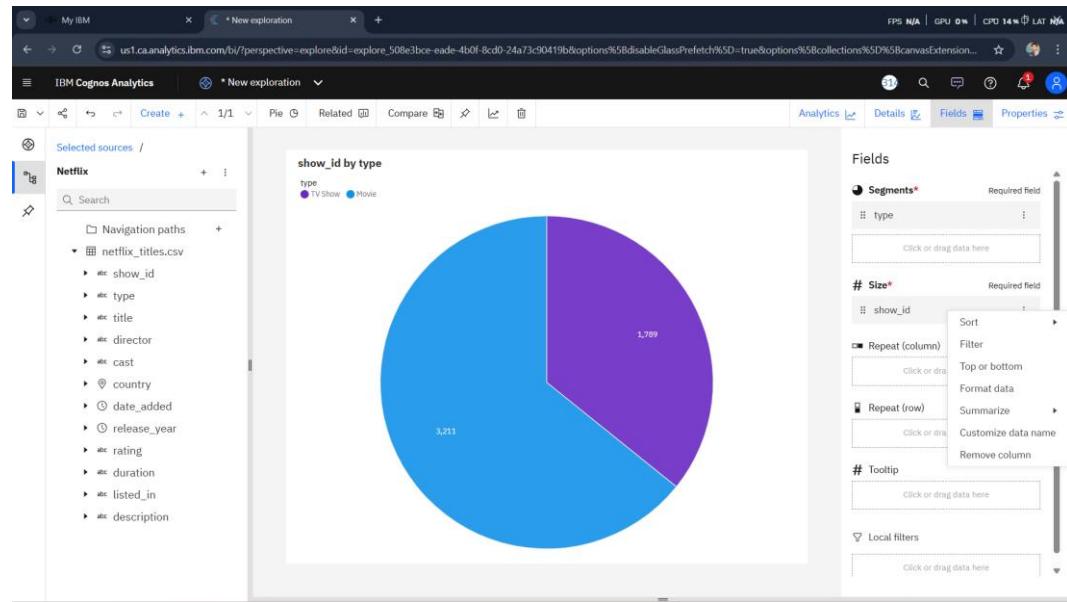
Step 10: - From the left side, drag ^{abc} type “type” on the segment for category.



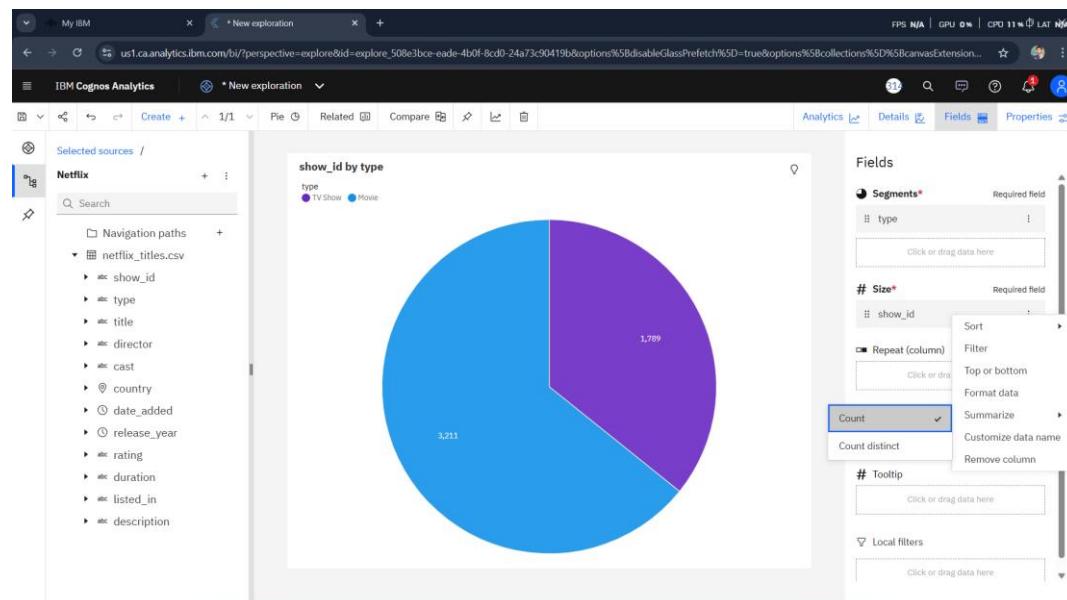
- After adding the x-axis and the y-axis, the display looks like this.



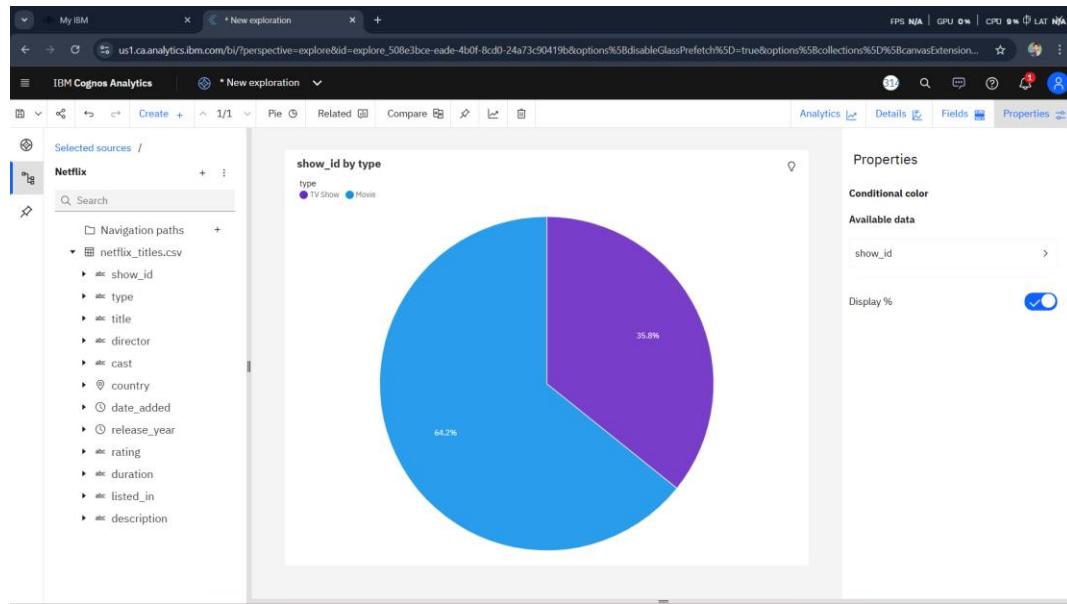
Step 11: - For applying summarizing on right-click on the three dots on the right-side of the page, Then open multiple summarize options.



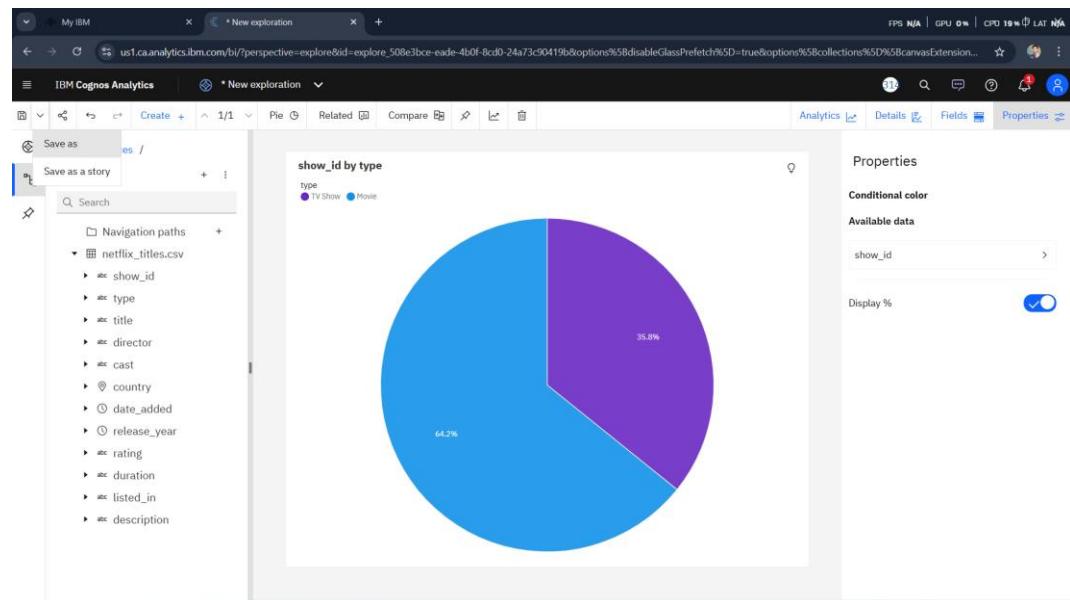
Step 12: - Click on the summarize, then click **Count** count. After that, the display looks like this.



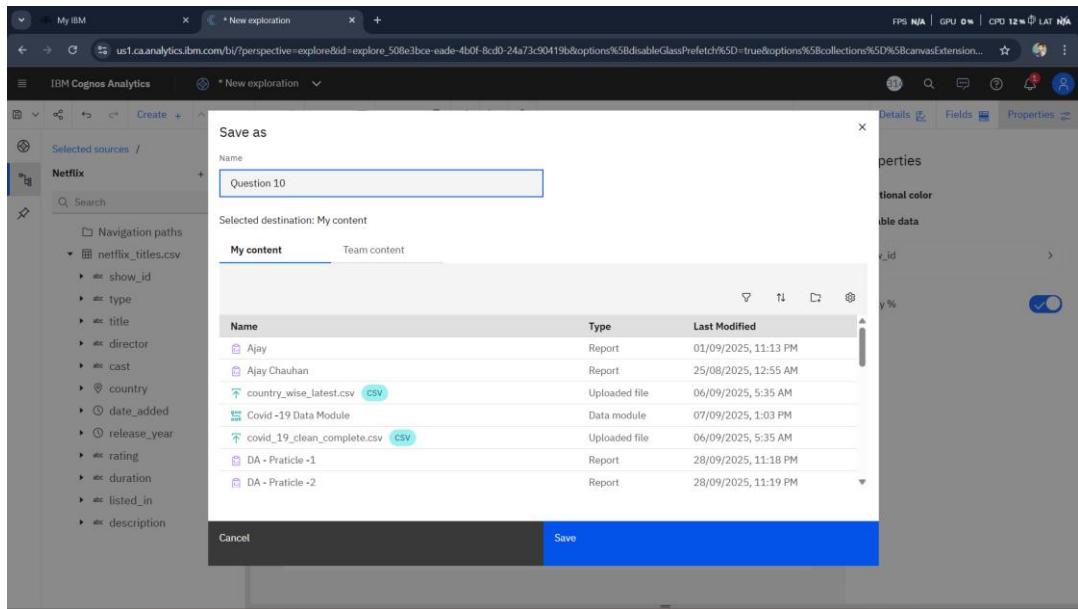
Step 13: - On the right side, click on the properties. Then click the toggle switch icon of the “display %”. Switch this.



Step 14: - To save the report, click the small arrow next to the Save icon (beside Edit). Select "Save as".



Step 15: - After clicking on the Save As, they open a Save As box, and now choose My content. Enter the name of the report ("Question-10"), then click icon.



- The Movie slice will cover about 35.8% of the pie, and TV Show around 64.2%,

