Just IT

B2W group

Apprenticeships | Training | Recruitment

Data Technician

Name:

Course Date:

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Day 1: Task 1

Please research the different versions of Tableau, compare and contrast them below and explain the limited functionality on 'Tableau Public'.

Different Tableau versions

Version	Type	Use Case
Tableau Desktop	Installed	Create dashboards and visualizations
Tableau Public	Installed	Free, public visualizations
Tableau Server	On-prem	Share securely in organizations
Tableau Cloud	Cloud	Hosted version of Server
Tableau Mobile	Mobile App	View dashboards on the go
Tableau Prep	Installed	Clean and prepare data

□□ 1. Tableau Desktop

- **Purpose:** Primary tool for creating visualizations, dashboards,

and stories.

- **Users:** Data analysts and business users.
- **Key Features:**
  - Drag-and-drop interface
  - Connects to many data sources
  - Used to create and publish workbooks
- **Requires installation.**

2. Tableau Public

- **Purpose:** Free version of Tableau Desktop.
- **Users:** Individuals, students, bloggers, portfolio builders.
- **Key Features:**
  - Free to use
  - Must save workbooks to the public Tableau server (not private)
- **Great for learning or sharing visualizations publicly.**

3. Tableau Server

- **Purpose:** Share dashboards securely across an organization.
- **Users:** Teams and enterprises.
- **Key Features:**
  - Hosted **on-premises**
  - Controlled access to dashboards and reports
  - Centralized data governance
- **Requires IT setup and maintenance.**

4. Tableau Cloud (formerly Tableau Online)

- **Purpose:** Cloud-hosted version of Tableau Server.
- **Users:** Organizations that prefer cloud over on-premises.
- **Key Features:**
  - No need for local server setup
  - Accessible anywhere via browser
  - Fully managed by Tableau

5. Tableau Mobile

- **Purpose:** Access Tableau dashboards on mobile devices.
- **Users:** Executives, field workers, managers.
- **Key Features:**
  - Real-time updates
  - Touch-friendly interface
  - Secure access on the go

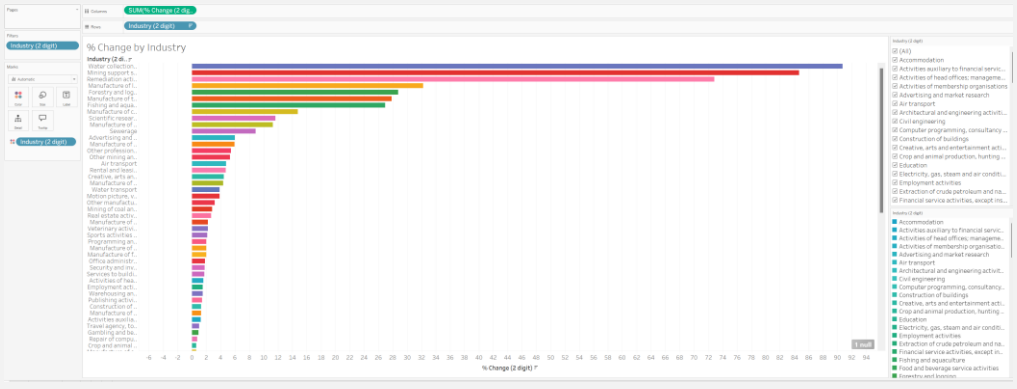
6. Tableau Prep

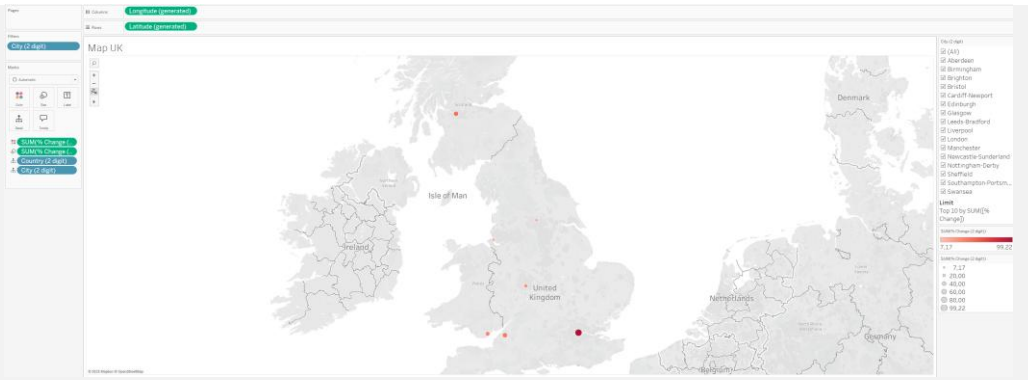
- **Purpose:** Data preparation (cleaning, reshaping, combining).
- **Users:** Analysts who need to wrangle messy data.
- **Key Features:**
  - Visual interface for cleaning data
  - Works well with Tableau Desktop
  - Includes Tableau Prep Builder and Conductor (for scheduling flows)

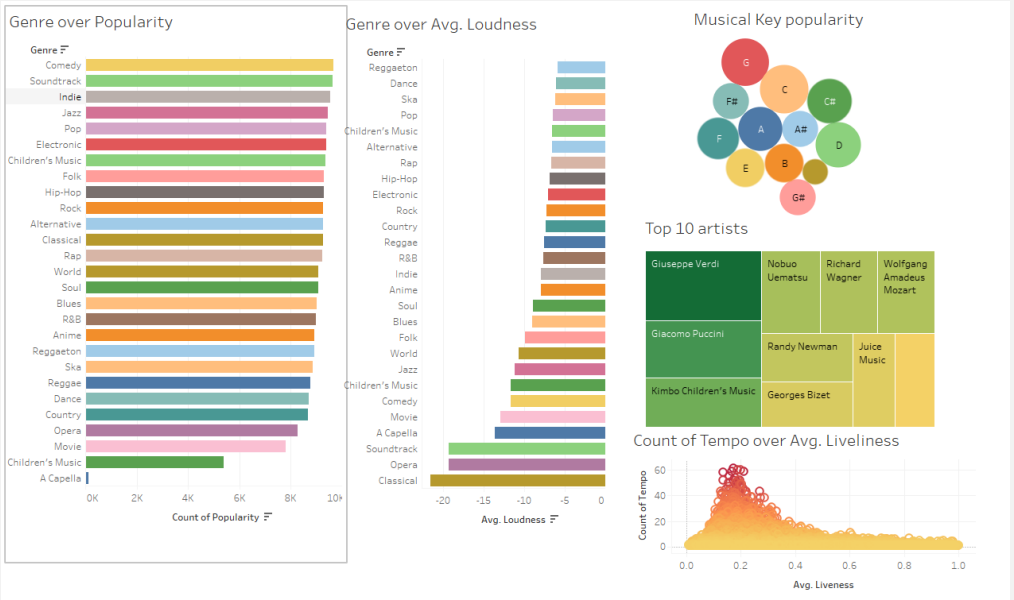
Day 1: Task 2

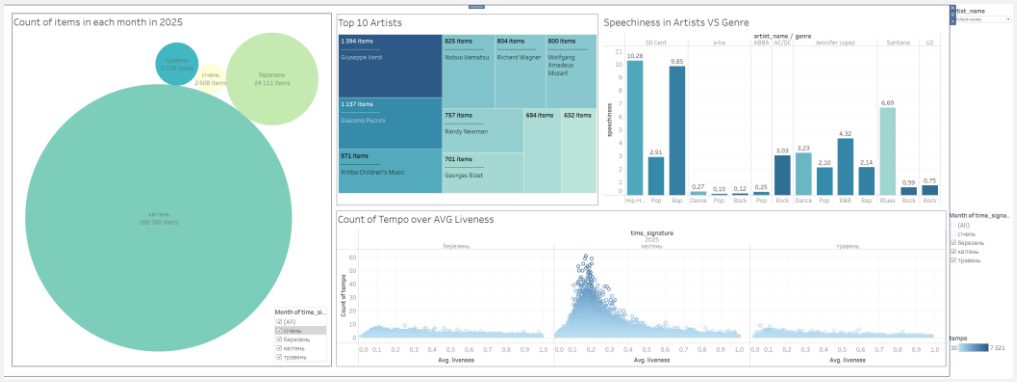
Using the *EMSI_JobChange_UK* dataset, create your own dashboard, I want to see a bar chart showing percentage change and a UK based map showing the key city locations impacted.

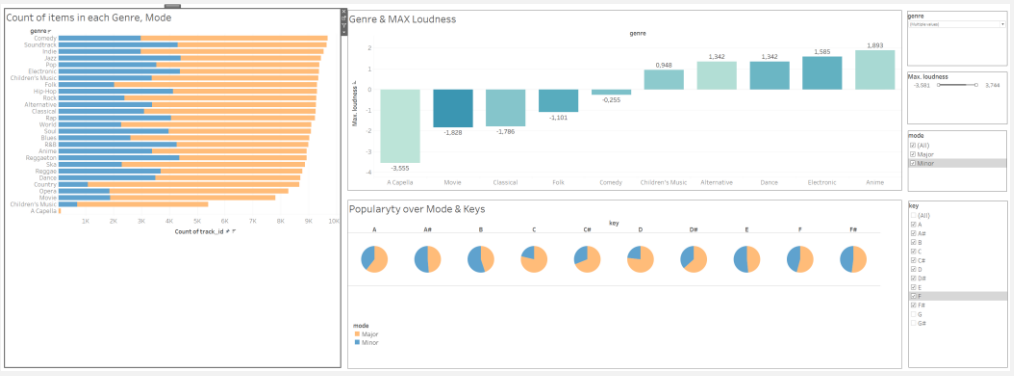
Paste your print screen here




Map UK
Isle of Man
Ireland
United Kingdom
Netherlands
Denmark
Germany
Belgium


Genre over Popularity
Genre
Comedy
Soundtrack
Indie
Jazz
Pop
Electronic
Children's Music
Folk
Hip-Hop
Rock
Alternative
Classical
Rap
World
Soul
Blues
R&B
Anime
Reggaeton
Ska
Reggae
Dance
Country
Opera
Movie
A Capella
0K
2K
4K
6K
8K
10K
Count of Popularity
Genre over Avg. Loudness
Genre
Reggaeton
Dance
Ska
Pop
Children's Music
Alternative
Rap
Hip-Hop
Electronic
Rock
Country
Reggae
R&B
Indie
Anime
Soul
Blues
Folk
World
Jazz
Children's Music
Comedy
Movie
A Capella
Soundtrack
Opera
Classical
-20
-15
-10
-5
0
Avg. Loudness
Musical Key popularity
G
C
C#
F#
A
A#
F
D
E
B
G#
Top 10 artists
Giuseppe Verdi
Nobuo Uematsu
Richard Wagner
Wolfgang Amadeus Mozart
Giacomo Puccini
Randy Newman
Juice Music
Kimbo Children's Music
Georges Bizet
Count of Tempo over Avg. Liveliness
Count of Tempo
60
40
20
0
0.0
0.2
0.4
0.6
0.8
1.0
Avg. Liveness

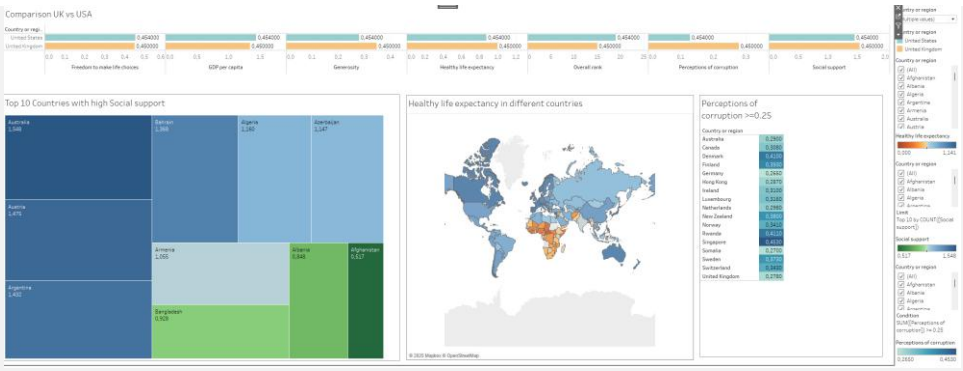

Count of items in each month in 2025
Top 10 Artists
Speechiness in Artists VS Genre
Count of Tempo over AVG Liveness


Count of items in each Genre, Mode
Genre & MAX Loudness
Popularyty over Mode & Keys

Day 2: Task 1

Using the Spotify data set, conduct an analysis to find trends and key information that could be used by an organisation for future projects.

There is no set scope for the analysis, simply to find trends and document them below:

Paste your print screens here	
What did you find?	1. Comparison UK vs USA 2. Top 10 Countries with high Social support 3. Healthy life expectancy in different countries 4. Perceptions of corruption >=0.25

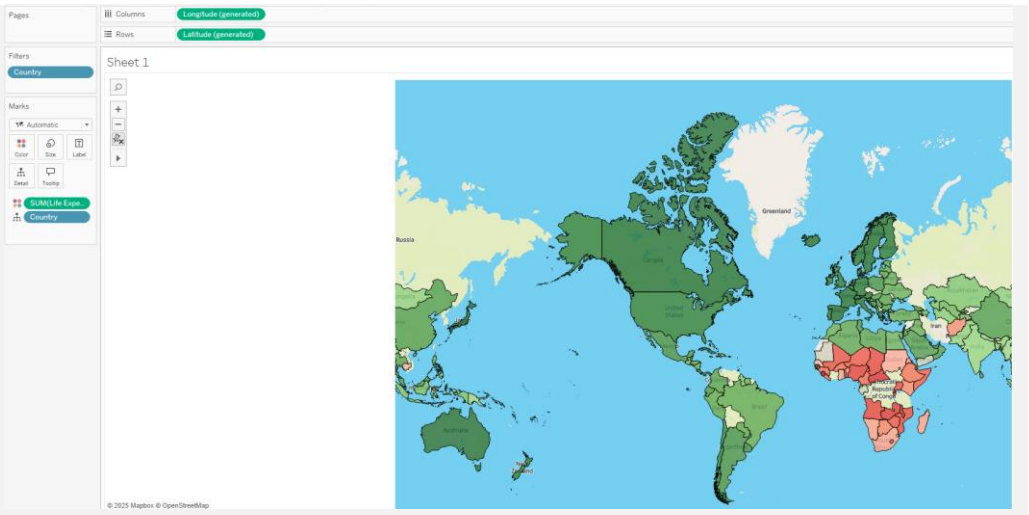
Day 2: Task 2

Using the Health data set, conduct an analysis to find trends and key information that could be used by an organisation for future support.

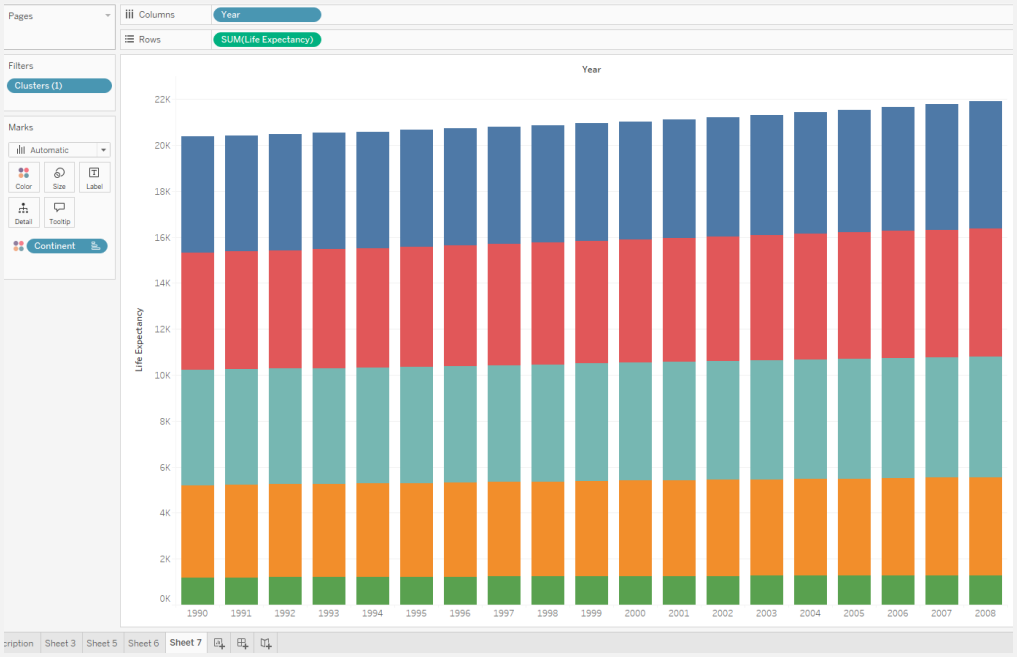
There is no set scope for the analysis, simply to find trends and document them below.

- Data can be lifesaving and is being used more within the NHS, reflect on how this data could support decision making for the NHS.

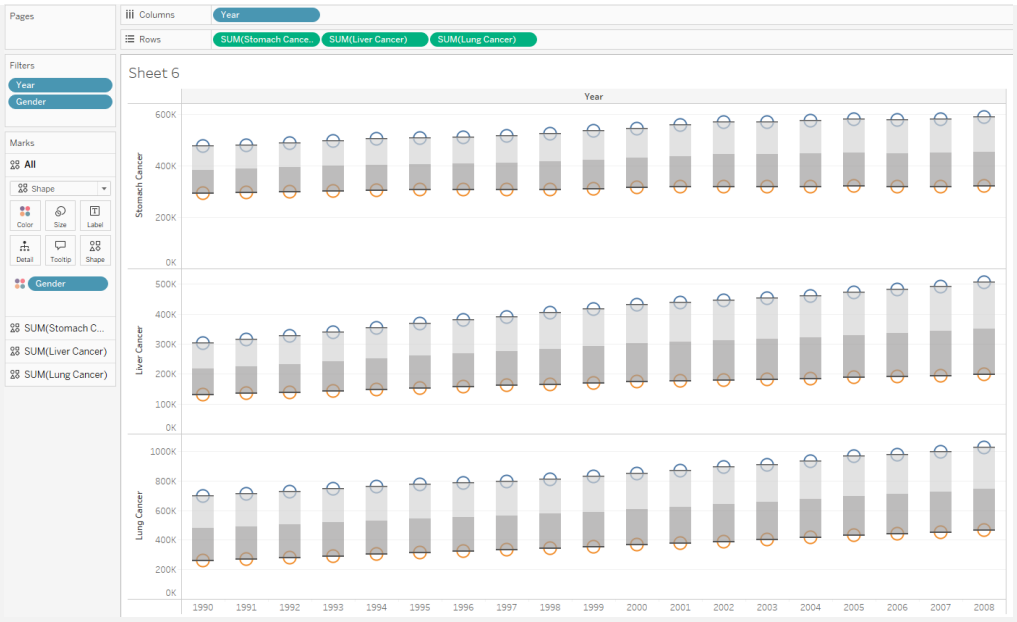
Paste your print screens here	1.


Pages
Columns
Longitude (generated)
Rows
Latitude (generated)
Filters
Country
Sheet 1
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Life Expe..
Country
Greenland
Russia
© 2025 Mapbox © OpenStreetMap

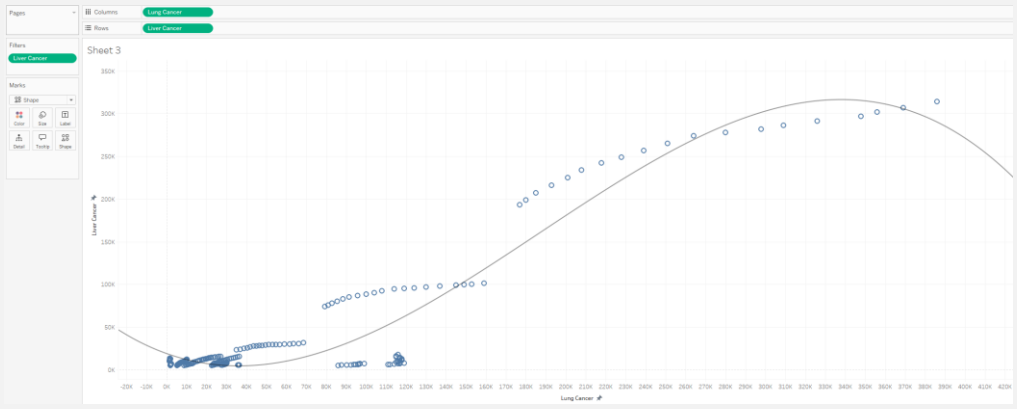
2.


Pages
Columns
Year
Rows
SUM(Life Expectancy)
Filters
Clusters (1)
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Continent
Year
Life Expectancy
22K
20K
18K
16K
14K
12K
10K
8K
6K
4K
2K
0K
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
Sheet 3
Sheet 5
Sheet 6
Sheet 7

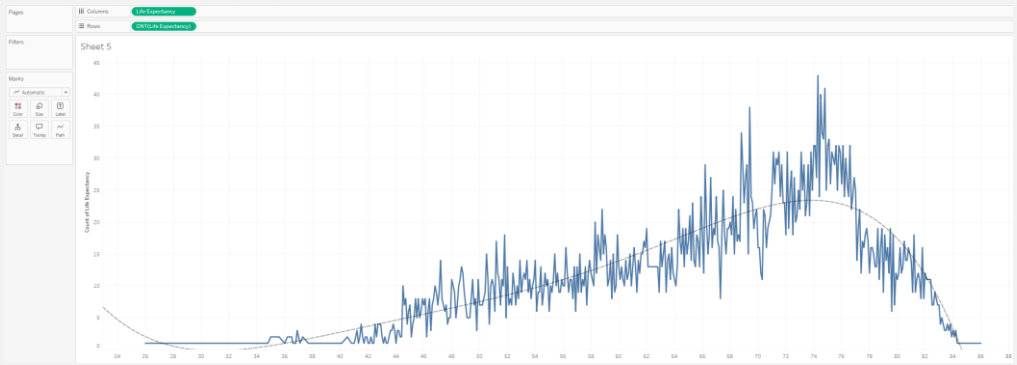
3.



4.



5.



What did you find and any reflections on how the NHS could use

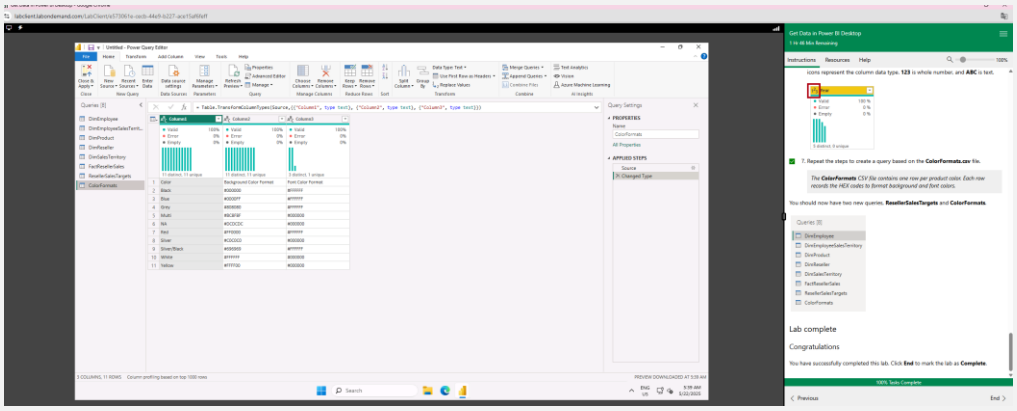
1. Life expectancy in different countries
2. Life expectancy by country and years
3. Stomach cancer, liver cancer and lung cancer by age and sex
4. Lung cancer VS Liver cancer

this?	5. Life expectancy and count of people in this age.

Day 3: Task 1

Please complete Lab 1 ‘Get Data in Power Bi Desktop’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

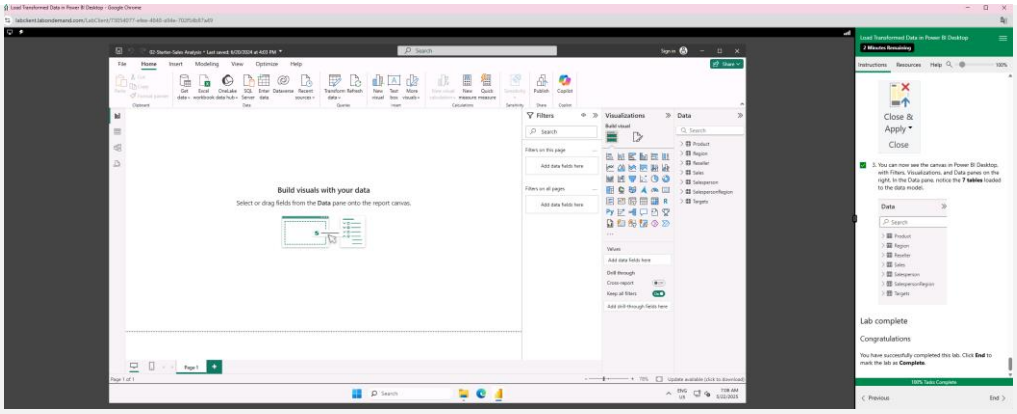
Paste your completed lab here	

Day 3: Task 2

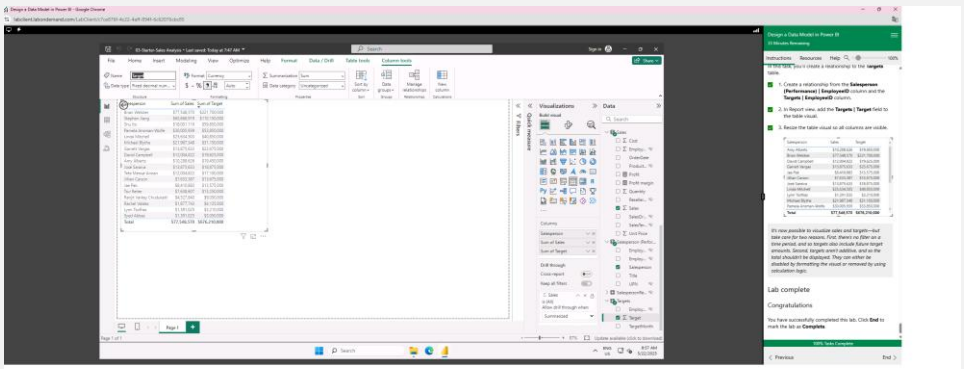
Please complete Lab 2 ‘Load Transformed Data in Power BI Desktop’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

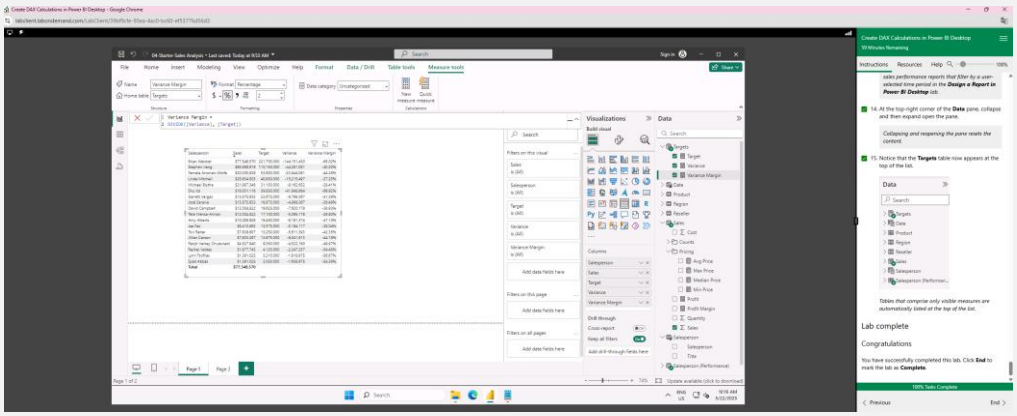
Paste your completed lab here	Lab 2



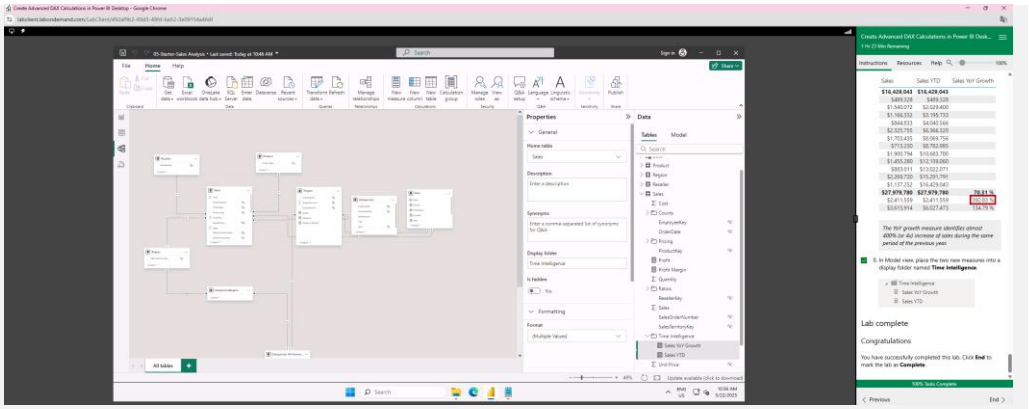
Lab 3



Lab 4



Lab 5

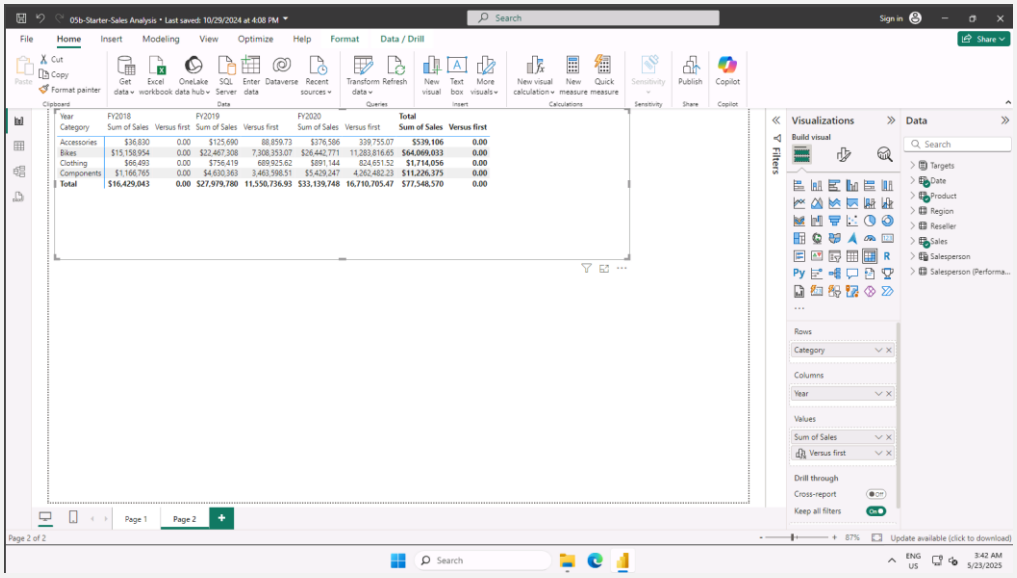


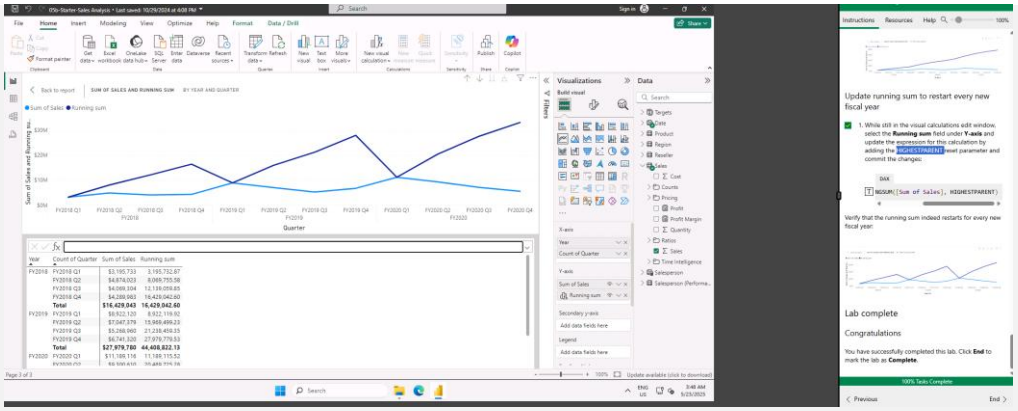
Day 4: Task 1

Please complete Lab 6 ‘Design a Report in Power BI Desktop’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

Paste your completed lab here



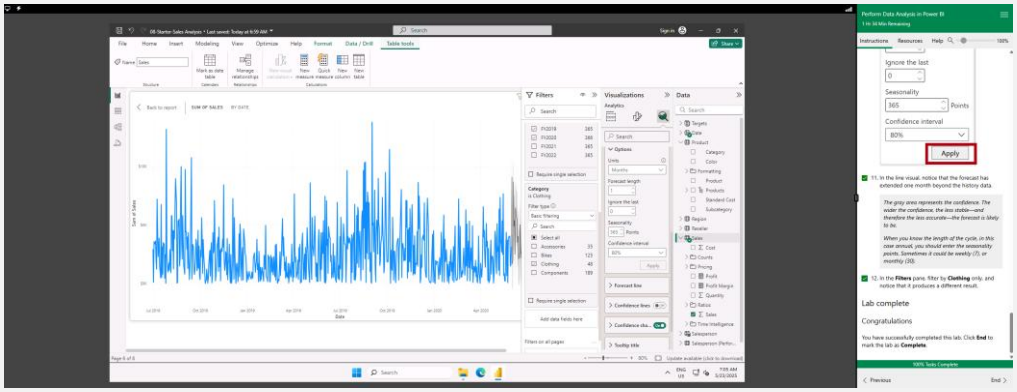

Update running sum to restart every new fiscal year
Lab complete
Congratulations

Day 4: Task 2

Please complete Lab 9 ‘Create a Power BI Dashboard’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

Paste your completed lab here



Course Notes

It is recommended to take notes from the course, use the space below to do so, or use the revision guide shared with the class:

We have included a range of additional links to further resources and information that you may find useful, these can be found within your revision guide.

END OF WORKBOOK

Please check through your work thoroughly before submitting and update the table of contents if required.

Please send your completed work booklet to your trainer.