Data Bootcamp Final Project Presentation

NIYO ENTERPRISE "DATA ANALYTICS AND PROJECT MANAGEMENT" 16 WEEKS EVENING BOOTCAMP

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About Me

Part-time Data Analyst for the British Red Cross after my Fast Track Digital Data Academy Graduation in March 2021 at the University of Salford.

In February 2022, I completed the Niyo Enterprise Data Analytics & Project Management Bootcamp.

With over 20 years' experience in Public Sector Financial Management; Public & Private sector Leisure Management including Operations, Sales/Marketing. Also delivering Education, Training and Development across all my job roles.

About the project

Gain a more in-depth Knowledge, Skills and Experience using Excel, SQL and Creating Data Analytics Power BI Dashboards.

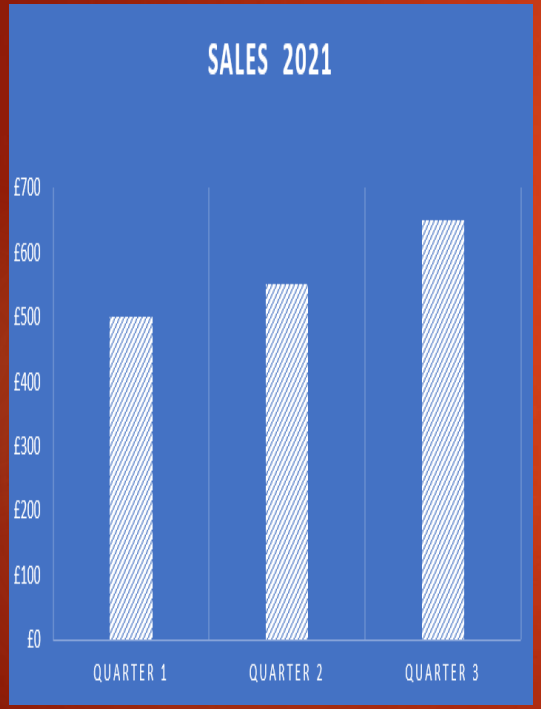
To showcase my skills using the above

How did I apply what I have learnt on the bootcamp

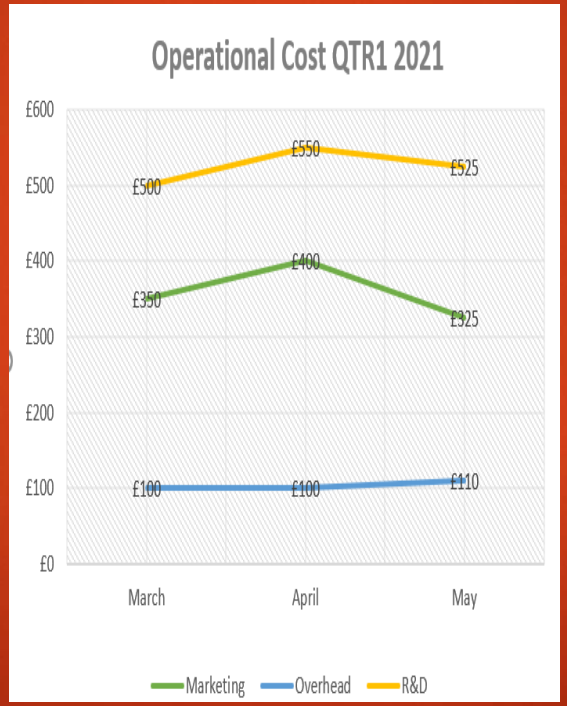
EXCEL	Power BI Desktop	MySQL

EXCEL - Charts

Bar Chart



Line Chart



Scatter Plot Chart

EXCEL - Data Analysis

H6 =XLOOKUP(LARGE($B$5:$B$20,1),$B$5:$B$20,$A$5:$A$20,"none",K10)

Data Analysis

Student Names	Exam Scores English	Maths	Science	Variance Analysis
Ciara	12	44	91	79
John	85	63	84	22
Katy	27	21	83	63
Lisa	99	90	81	18
Sophia	6	50	78	72
Thomas	29	39	71	42
Simon	50	71	65	21
Junior	2	12	65	63
Funke	93	7	50	87
Sally	91	77	46	46
Annie	8	59	38	51
William	53	54	27	27
Greg	35	47	16	31
Lily	35	18	12	23
Ben	40	90	12	78
Maria	14	29	4	25

Draw some key analysis in this dataset

	Student 1	Student 2	Student 3	
What are the names of the top three highest performing students for English	Lisa	Funke	Sally	English
What are the names of the top three highest performing students for Maths	Ben	Lisa	Sally	Maths
What are the names of the top three highest performing students for Science	Ciara	John	Katy	Science

Find the average English score: 43

Find the student(s) with the highest variance of scores: Funke

With the information above, write a few lines on the overall analysis of the dataset

The table below shows the name of the top 3 highest performing students in each subject

Student 1	Student 2	Student 3	
Lisa	Funke	Sally	English
Ben	Lisa	Sally	Maths
Ciara	John	Katy	Science

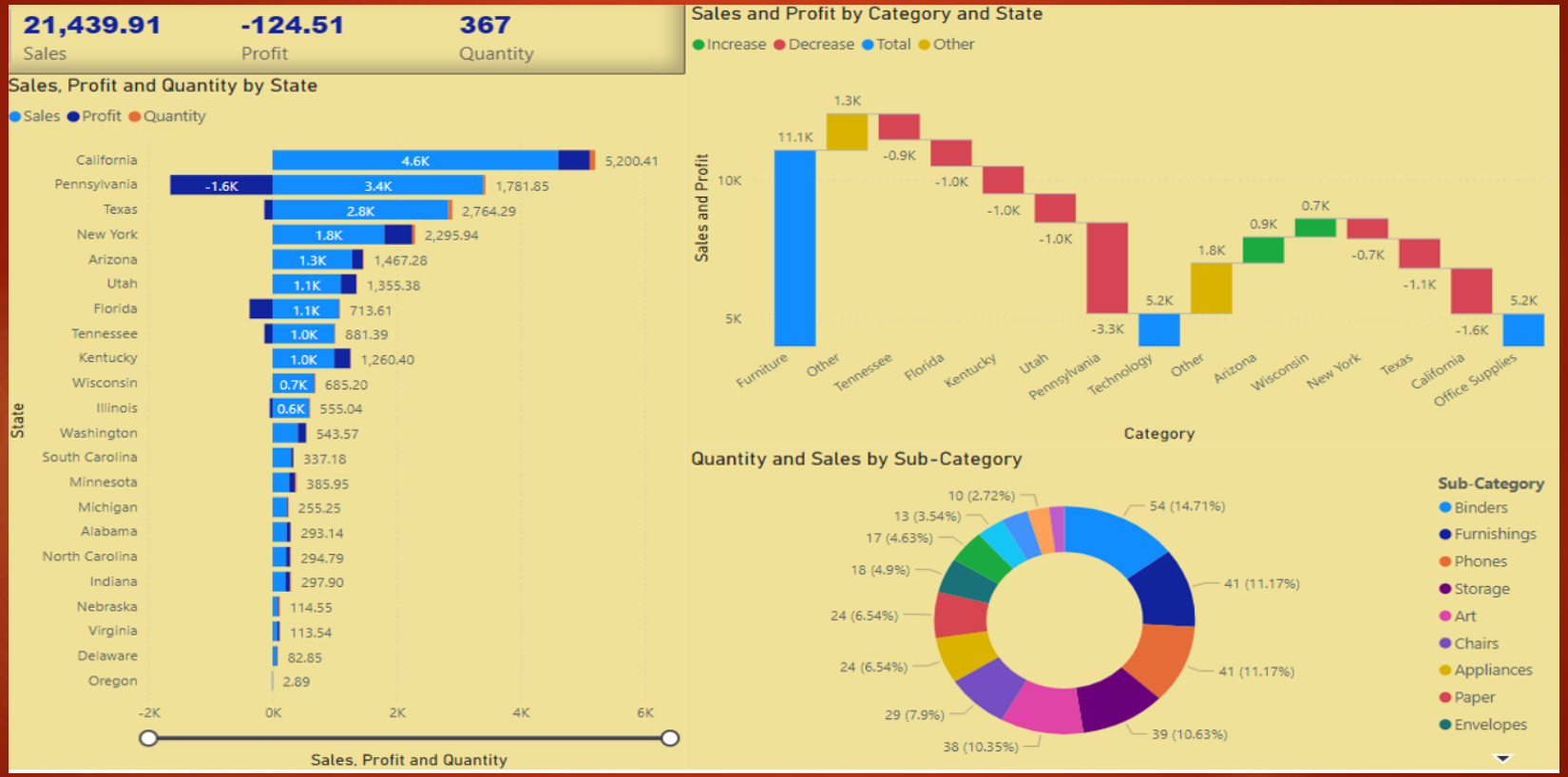
- Lisa is ranked 1st in English and 2nd in Maths and 4th in Science.
- Sally is ranked 3rd in both English and Maths, but 13th in Science.
- Funke has the largest variance in scores only achieving 7 marks in Maths, 50 marks in Science compared to being ranked 2nd highest in English.
- All above are ranked in the top 3 in English, but only Lisa and Sally in Maths.

Therefore, over all 3 subjects the above brief analysis shows

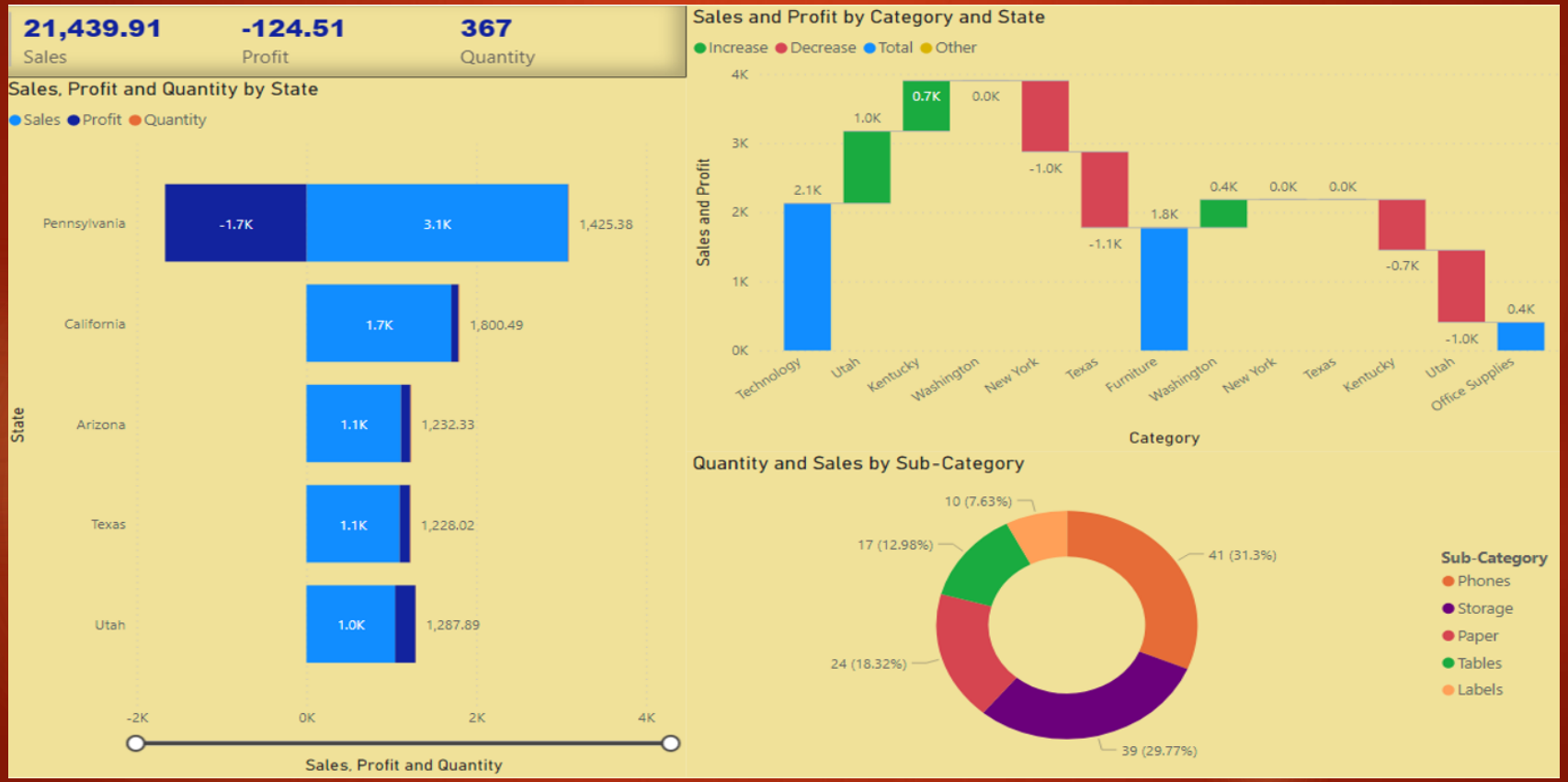
- Lisa is a very high performer, compared to
- Lisa who is around the average
- Funke who is below average

Also, English has an average score of 43.

POWER BI - Ryan's Sales & Profit Analysis Dashboard



Power BI Drill-down - Ryan's Sales & Profit Analysis Dashboard



SQL Data Analytics

```sql
-- 3.
-- I am really interested in English movies, e.g., variety/how many in english, genre
-- 3a. First, will show wide variety of lanuages available
SELECT * FROM Project.netflix_movies
GROUP BY language;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Title	Genre	Premiere	Runtime	Language
Enter the Anime	Documentary	August 5, 2019	58	English/Japanese
Dark Forces	Thriller	August 21, 2020	81	Spanish
The App	Science fiction/Drama	December 26, 2019	79	Italian
The Open House	Horror thriller	January 19, 2018	94	English
Kaali Khuhi	Mystery	October 30, 2020	90	Hindi
Leyla Everlasting	Comedy	December 4, 2020	112	Turkish
The Call	Drama	November 27, 2020	112	Korean
Whipped	Romantic comedy	September 18, 2020	97	Indonesian
All Because of You	Action comedy	October 1, 2020	101	Malay

```sql
-- 3b. Find all Movie Titles available in "English"
SELECT * FROM Project.netflix_movies
WHERE language LIKE '%English%'

-- 4. To show total No. of Movies in "English"
SELECT COUNT(Language) AS 'Total No. of English Movies' FROM project.netflix_movies
WHERE Language LIKE '%English%';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Title	Genre	Premiere	Runtime	Language
Enter the Anime	Documentary	August 5, 2019	58	English/Japanese
The Open House	Horror thriller	January 19, 2018	94	English
The Last Days of American Crime	Heist film/Thriller	June 5, 2020	149	English
Paradox	Musical/Western/Fantasy	March 23, 2018	73	English
Searching for Sheela	Documentary	April 22, 2021	58	English
Mercy	Thriller	November 22, 2016	90	English
The Last Thing He Wanted	Political thriller	February 21, 2020	115	English
Death Note	Horror thriller	August 25, 2017	100	English
Hello Privilege. It's Me, Chelsea	Documentary	September 13, 2019	64	English

SQL Data Analytics -continued

```sql
-- 6b. JOINS: INNER JOIN combine the 2 datasets together based on movie "Titles" BUT
-- only showing Title once, with IMDB Score column e.g. useful to "Create a View".
SELECT nm.Title, nm.Genre, nm.Premiere, nm.Runtime, nm.Language,
s.imdb_score
FROM Project.netflix_movies nm
INNER JOIN Project.imdb_scores s
ON nm.Title = s.Title;

-- 6c. only showing 6b. above for all Movies available in English
SELECT nm.Title, nm.Genre, nm.Premiere, nm.Runtime, nm.Language,
s.imdb_score
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

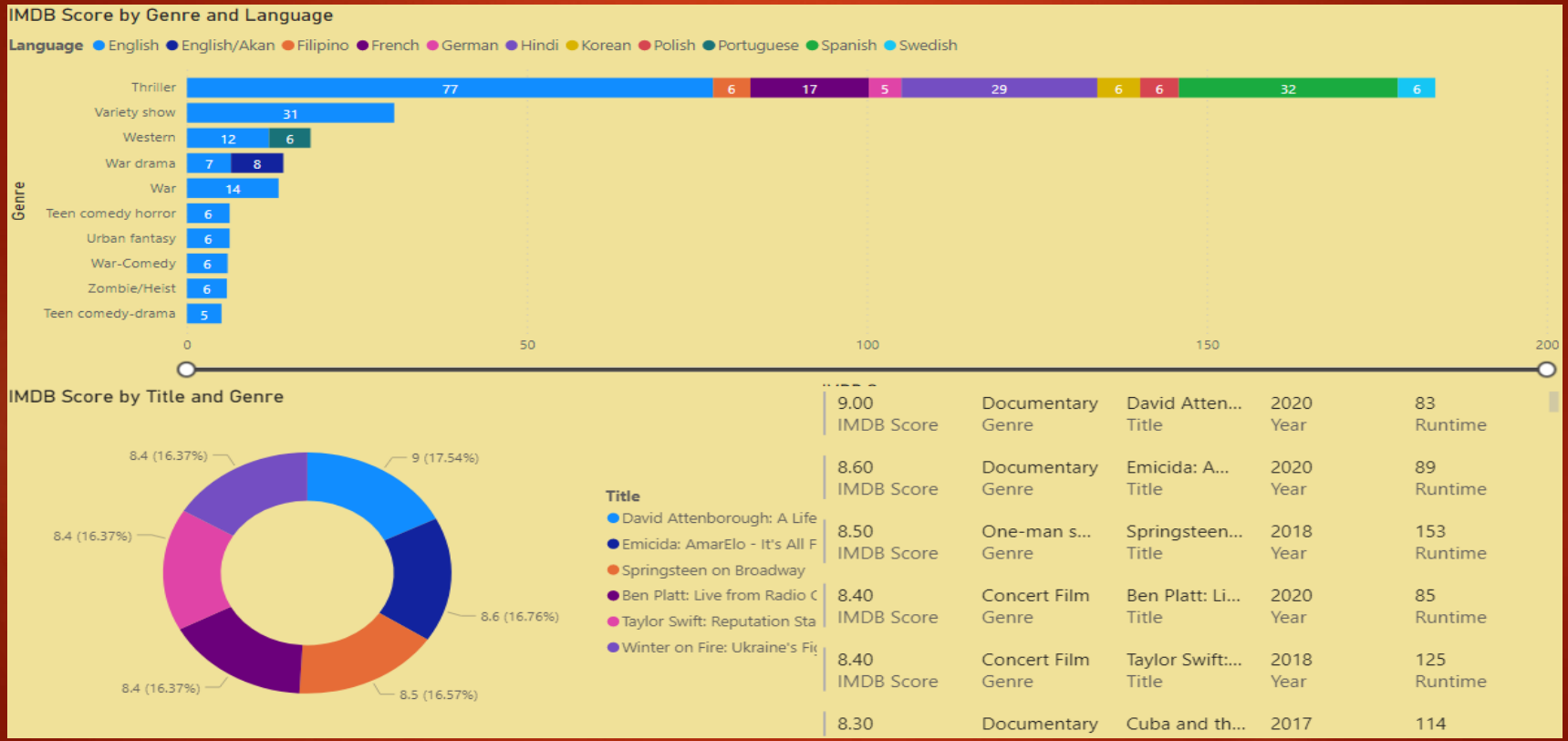
Title	Genre	Premiere	Runtime	Language	imdb_score
Enter the Anime	Documentary	August 5, 2019	58	English/Japanese	2.5
Dark Forces	Thriller	August 21, 2020	81	Spanish	2.6
The App	Science fiction/Drama	December 26, 2019	79	Italian	2.6
The Open House	Horror thriller	January 19, 2018	94	English	3.2
Kaali Khuhi	Mystery	October 30, 2020	90	Hindi	3.4
Drive	Action	November 1, 2019	147	Hindi	3.5
Leyla Everlasting	Comedy	December 4, 2020	112	Turkish	3.7
The Last Days of American Crime	Heist film/Thriller	June 5, 2020	149	English	3.7
Paradox	Musical/Western/Fantasy	March 23, 2018	73	English	3.9
Sardar Ka Grandson	Comedy	May 18, 2021	139	Hindi	4.1

```sql
-- 6c. only showing 6b. for all Movies available in English
SELECT nm.Title, nm.Genre, nm.Premiere, nm.Runtime, nm.Language,
s.imdb_score
FROM Project.netflix_movies nm
INNER JOIN Project.imdb_scores s
ON nm.Title = s.Title
WHERE nm.Language = 'English';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Title	Genre	Premiere	Runtime	Language	imdb_score
The Open House	Horror thriller	January 19, 2018	94	English	3.2
The Last Days of American Crime	Heist film/Thriller	June 5, 2020	149	English	3.7
Paradox	Musical/Western/Fantasy	March 23, 2018	73	English	3.9
Searching for Sheela	Documentary	April 22, 2021	58	English	4.1
Mercy	Thriller	November 22, 2016	90	English	4.2
The Last Thing He Wanted	Political thriller	February 21, 2020	115	English	4.3
Death Note	Horror thriller	August 25, 2017	100	English	4.4
Hello Privilege. It's Me, Chelsea	Documentary	September 13, 2019	64	English	4.4
Secret Obsession	Thriller	July 18, 2019	97	English	4.4
Sextuplets	Comedy	August 16, 2019	99	English	4.4

Findings – Data Visualisation By Creating Power BI Dashboard



Top 3 Things I have learnt on the bootcamp

Educationally Having the resilience to commitment, the time and effort to complete any bootcamp in your own personal time will be rewarded in the future

Personally Ignore self doubts anything is achievable

Career Wise Now more focused on progressing within Project Management