

Data Technician

Name:

Course Date:

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Day 1: Task 1

Please complete the below boxes on commons laws and regulations that must be followed when working with customers data, use the below bulleted list to support your answers.

- What is it
- Why is it important
- Provide a real-world example of how you can follow it
- How does it impact working with data
- What could happen if you breached it

Data
Protection
Act

It is a legislation- a set of rules. It protects personal data and complements GDPR. Its' rules include: Lawfulness, fairness and transparency – which describes how the data must be used; Purpose of Limitation – which entices organisations to display the

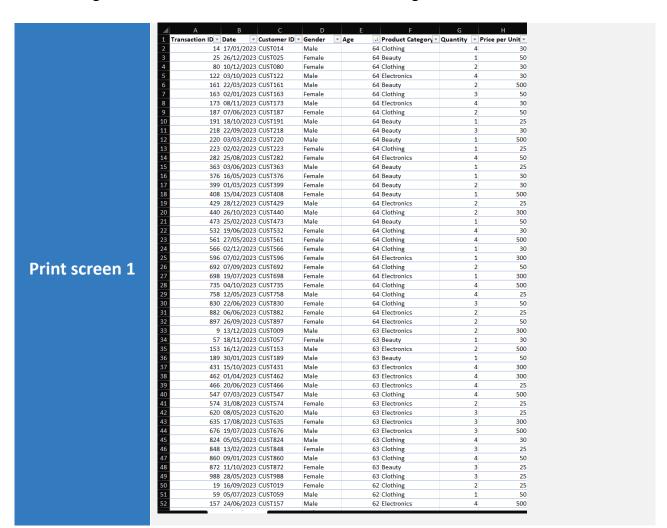
	purpose of collecting a set of data; Data minimization – which enforces organisations to collect only the data required; Integrity and confidentiality – which enforces data to be stored securely; Accountability – which enforces accountability on organisations for how they handle data they collected. A real-life example could be how you can request your medical data from your doctor or requesting a company to delete your records from their database.
	An impact of this legislation could be how companies treat data, for example: they cannot sell the data they have collected without the user's permission.
	Penalties include fines up to £17.5M or 4% of the organisation's annual turnover, depending on which one is higher.
	GDPR is the DPA for the EU. It defines the rights of individuals in the digital age; Sets out rules for how organisations can collect, store and use personal data, as well as imposing sanctions on organisations that can breach the rules.
GDPR	An example of GDPR is how a landlord cannot share past tenants' details to anyone unless they have that person's permission.
	Penalties include fines up to £17.5M or 4% of the organisation's annual turnover, depending on which one is higher.
Freedom of	Allows people to access information held by public authorities, unless it is withheld with an appropriate reason
Information Act	It is important because it makes public authorities be attentive on how and what data they store.
	Penalties include fines for not following this legislation
Computer	Protects the security and integrity of computer systems and data.
Misuse Act	Keeps encryption up to date on workstations and access points. Up to 10 years in prison and unlimited fine.

Day 2: Task 1



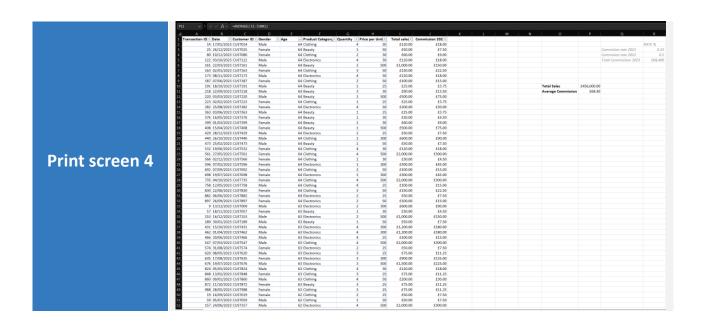
Please research and complete the following tasks within the retail-sales_dataset.xlsx document, paste a print screen into the provided boxes below:

- In the sheet 'retail_sales_dataset' add all available data between columns A H into a 'table'
- 2. Using the 'filter' function, filter 'Age' to 'largest to smallest'
- 3. Using the 'SUM' function, show me the commission total in cell 'P10'
- 4. Using the 'AVERAGE' function, show me the average commission in cell 'P11'



				===		
	Transaction ID v Date v Customer ID					
	14 17/01/2023 CUST014	Male	64 Clothing	4	30	
	25 26/12/2023 CUST025	Female	64 Beauty	1	50	
	80 10/12/2023 CUST080	Female	64 Clothing	2	30	
	122 03/10/2023 CUST122	Male	64 Electronics	4	30	
	161 22/03/2023 CUST161	Male	64 Beauty	2	500	
	163 02/01/2023 CUST163	Female	64 Clothing	3	50	
	173 08/11/2023 CUST173	Male	64 Electronics	4	30	
	187 07/06/2023 CUST187	Female	64 Clothing	2	50	
	191 18/10/2023 CUST191	Male	64 Beauty	1	25	
	218 22/09/2023 CUST218	Male	64 Beauty	3	30	
	220 03/03/2023 CUST220	Male	64 Beauty	1	500	
	223 02/02/2023 CUST223	Female	64 Clothing	1	25	
	282 25/08/2023 CUST282	Female	64 Electronics	4	50	
	363 03/06/2023 CUST363	Male	64 Beauty	1	25	
	376 16/05/2023 CUST376 399 01/03/2023 CUST399	Female Female	64 Beauty	2	30	
			64 Beauty	1		
	408 15/04/2023 CUST408	Female	64 Beauty		500	
	429 28/12/2023 CUST429	Male	64 Electronics	2	25	
	440 26/10/2023 CUST440	Male	64 Clothing	2	300	
	473 25/02/2023 CUST473	Male	64 Beauty	1	50	
	532 19/06/2023 CUST532	Female	64 Clothing	4	30	
	561 27/05/2023 CUST561	Female	64 Clothing	4	500	
	566 02/12/2023 CUST566	Female	64 Clothing	1	30	
Drint screen 2	596 07/02/2023 CUST596	Female	64 Electronics	1	300	
Print screen 2	692 07/09/2023 CUST692	Female	64 Clothing	2	50	
	698 19/07/2023 CUST698	Female	64 Electronics	1	300	
	735 04/10/2023 CUST735	Female	64 Clothing	4	500	
	758 12/05/2023 CUST758	Male	64 Clothing	4	25	
	830 22/06/2023 CUST830	Female	64 Clothing	3	50	
	882 06/06/2023 CUST882	Female	64 Electronics	2	25	
	897 26/09/2023 CUST897	Female	64 Electronics	2	50	
	9 13/12/2023 CUST009	Male	63 Electronics	2	300	
	57 18/11/2023 CUST057	Female	63 Beauty	1	30	
	153 16/12/2023 CUST153	Male	63 Electronics	2	500	
	189 30/01/2023 CUST189	Male	63 Beauty	1	50	
	431 15/10/2023 CUST431	Male	63 Electronics	4	300	
	462 01/04/2023 CUST462	Male	63 Electronics	4	300	
	466 20/06/2023 CUST466	Male	63 Electronics		25	
	547 07/03/2023 CUST547	Male	63 Clothing	2	500	
	574 31/08/2023 CUST574	Female Male	63 Electronics 63 Electronics	3	25 25	
	620 08/05/2023 CUST620					
					200	
	635 17/08/2023 CUST635 676 19/07/2023 CUST676	Female Male	63 Electronics	3	500	
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Day 2: Task 2

Please research and complete the following tasks within the retail-sales_dataset.xlsx document, paste print screens into the provided box below:

Student name	English	Mathematic:	Science	Average	Highest score
Carol	75	85	85		
Ted	80	75	90		
Khan	85	75	80		
Harry	80	70	80		
Sarah	80	70	80		
John	65	80	70		
Linda	90	50	70		
Edward	55	80	60		
Mary	55	70	65		
Thomas	55	30	65		
Task					

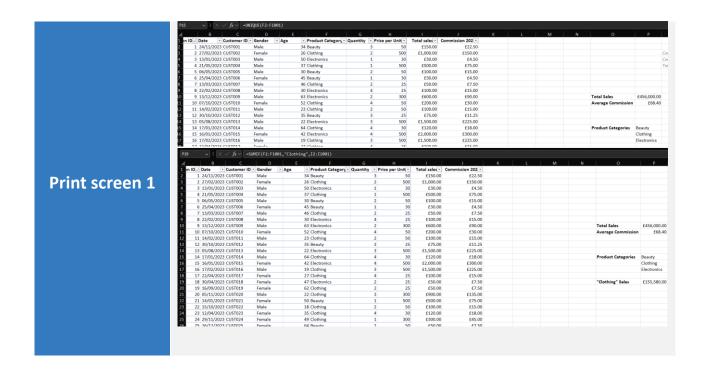
- 1) Apply filter and sorting to show the best students in each subject.
- 2) Calculate the average for all students and fill into Column E. (Use formula)
- 3) Using the =MAX fucntion, tell me what the students highest score was in column F.
- 4) Apply filter and sorting to show the best student in this classroom by average.
- 5) Apply filter and sorting to show the best student in this classroom by highest score.
- 6) Use conditional formatting to clearly identify the highest and lowest average scores





Day 2: Task 3

Using the skills developed today, have some fun with the data set you have imported. Paste your work below and enjoy!

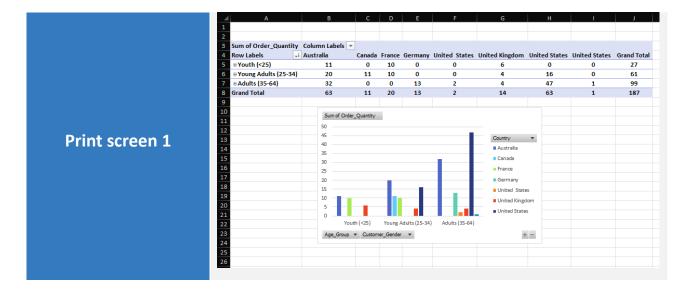


Day 3: Task 1

Please download the dataset 'Day_3_Task_1_Bike_Sales_Pivot_Lab.xlsx' from here.

The lab instructions can be found <u>here</u>. Do not worry if you do not complete the lab, just working with data and playing with the pivot table will be good experience.

Please paste your final pivot table below and complete the reflection questions:

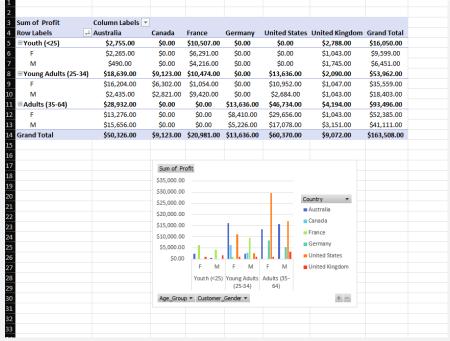


Sum of Order_Quantity Column Labels 🗐 13 **Grand Total** 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 Sum of Order_Quantity Germany In which markets does Germany have customers? Country + P ■ Germany Adults (35-64) Age_Group ▼ Customer_Gender ▼ + -Germany has customers in the 35-64 age range um of Order_Quantity Column Labels ow Labels

Australia Youth (<25) Young Adults (25-34) 20 17 17 Adults (35-64) 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Grand Total What country has Sum of Order_Quantity Australia sales in all markets? Adults (35-64) Youth (<25) Young Adults (25-34) Age_Group

Customer_Gender It is Australia, there is a big market in the adult-range and Females in the age range of 25-34





This chart represents the profits throughout countries, subdivided by gender and age-group.

What are the most profitable markets by country, age group, and gender?

United States		
\$0.00		
\$0.00		
\$0.00		
\$13,636.00		
\$10,952.00		
\$2,684.00		
\$46,734.00		
\$29,656.00		
\$17,078.00		
\$60,370.00		

The data shows that the United States are the most profitable country.

Grand Total	
\$16,050.00	
\$9,599.00	
\$6,451.00	
\$53,962.00	
\$35,559.00	
\$18,403.00	
\$93,496.00	
\$52,385.00	
\$41,111.00	
\$163,508.00	

The data also shows that the most profitable age-group is the "Adults" group.



Day 3: Task 2

The dataset below tracks the sales performance of different products in various counties in England. Please paste the dataset into a blank Excel workbook. Your task is to:



- Create a Pivot Table to summarise the data by county and product.
- **Use the SWITCH function** to categorise products based on their sales volume.

Dataset:

County	Product	Sales Volume
Yorkshire	Laptops	500
Yorkshire	Smartphones	200
Cornwall	Laptops	700
Cornwall	Printers	400
Lancashire	Smartphones	150
Lancashire	Laptops	600
Essex	Printers	800
Essex	Smartphones	300
Durham	Laptops	250
Durham	Printers	300
Greater Manchester	Smartphones	600
Greater Manchester	Laptops	400

Step 1: Create a Pivot Table

- Select the dataset (columns A to C).
- Insert a Pivot Table to summarise the data by **County** in the rows and **Products** in the columns. Use **Sales Volume** as the value to be summarised.

Step 2: Use the SWITCH Function

In a new column next to your data, use the SWITCH function to categorise products based on **Sales Volume** as follows:

- o For sales greater than 600: "High"
- o For sales between 300 and 600: "Medium"
- o For sales less than 300: "Low"

SWITCH Function Example:

```
=SWITCH(TRUE, C2 > 600, "High", C2 >= 300, "Medium", "Low")
```

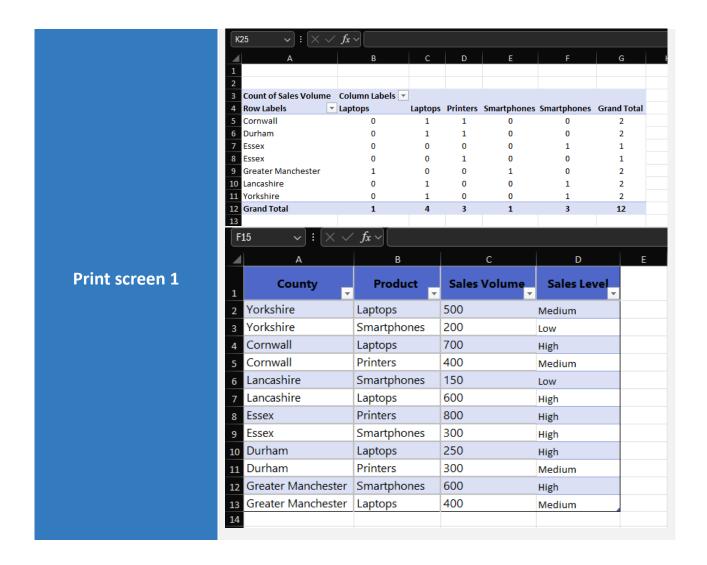
• Apply this formula to each row, and check if the products are categorised correctly.

Submission:

• A completed Pivot Table summarising sales by county and product.



- A new column in the dataset categorising products by sales volume using the SWITCH function.
 - o Please paste your completed work below



Day 3: Task 3

Please download the dataset 'Day_3_Task_3_Bike_Sales_Visualisations_Lab.xlsx' from here.

The lab instructions can be found <u>here.</u> Do not worry if you do not complete the lab, just working with data and playing with the charts will be good experience.

Please paste your results below:

Print screen 1 Task 3 Part 1:

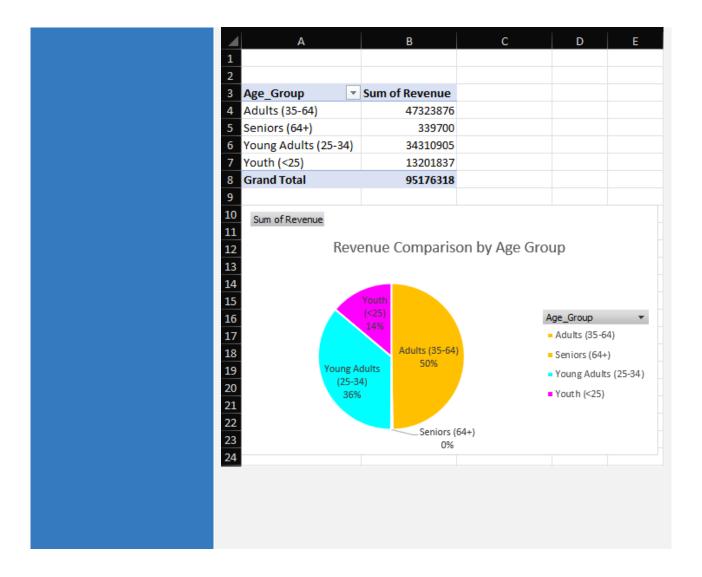


Country

Task 3 Part 3:

Country ▼





Day 4: Task 1

You have been asked to deliver your analysis findings to the board of directors, within your analysis you have identified that customers are leaving your company at the 12-month point, this is typically when they receive their renewal price.

Conduct research and complete the below questions:

How would you prepare for the delivery?

I would create a presentation, giving evidence and explaining on why and how clients are to leave the company. I would do so by also giving out concrete and detailed data in form of charts and, if applicable, precedents. I would also prepare on presenting solutions and show how affective these could be by showing concrete proof or precedents, if applicable.

What tools would you use for the delivery?

A simple, but effective PowerPoint. As well as detailed Excel sheets and graphs. Keeping my notes close to me, as well as giving myself a glass of water to pause and give myself time to think about questions and/or pace my presentation.

What is prospecting and why would you complete this before your delivery?

A prospecting table is comprised of a list of objectives, with information and/or commercial actions needed to achieve these objectives. A prospecting table centralises all the information and contact details of people that might be considered as prospects. In this case, I would prepare a table of prospecting customers, or if applicable any clients that we can keep from leaving. I would then identify what is required to keep/acquire these clients and set those requirements as my objectives.

Tell me best practices for public speaking and providing updates to senior leaders

First off, Identifying senior leaders. Once identified I can adapt my presentation to where it is understandable, by benefitting from anecdotal data- speaking about experiences I have had, or they might have had during their carriers-. I would also include interaction, for example polls, Q&A sessions and try to make my presentation more interactive. I would end my presentation with Q&As and follow-up data(images and/or articles) about the presentation to allow them to understand and give them a chance to review the presentation better in a later time.

What will you show the board in your delivery?

I will show data in form of charts, market comparisons and graphs/pictures from and precedents.

How will you articulate the changes that are needed?

I will first off show the data forecasted by Excel and/or other programs, after showing data about the current market. I will then proceed to show what is more likely to happen: what clients will leave. I will then show plans on how to retain these clients and plans on increasing our number of clients in the form of charts, research about these clients and showing any visual proof of any precedents if applicable.

Provide a list of online resources and videos that will support your preparation for public speaking

https://www.ted.com/playlists/574/how to make a great presentation - how to give a presentation

https://www.savemyexams.com/igcse/business/edexcel/19/revisionnotes/4-marketing/the-market/responding-to-changing-marketconditions/ - what topics or points to touch on, to show market changes.

https://www.forbes.com/sites/rodgerdeanduncan/2025/01/14/speaking-makes-you-sweat-tips-to-boost-your-confidence-and-competence/ - example of an article showing how to boost confidence for public speaking/presenting.

Evaluate tools that provide visualisation.

Excel's Pivot Tables, PowerBI, Tableau.

Tell me what they are.

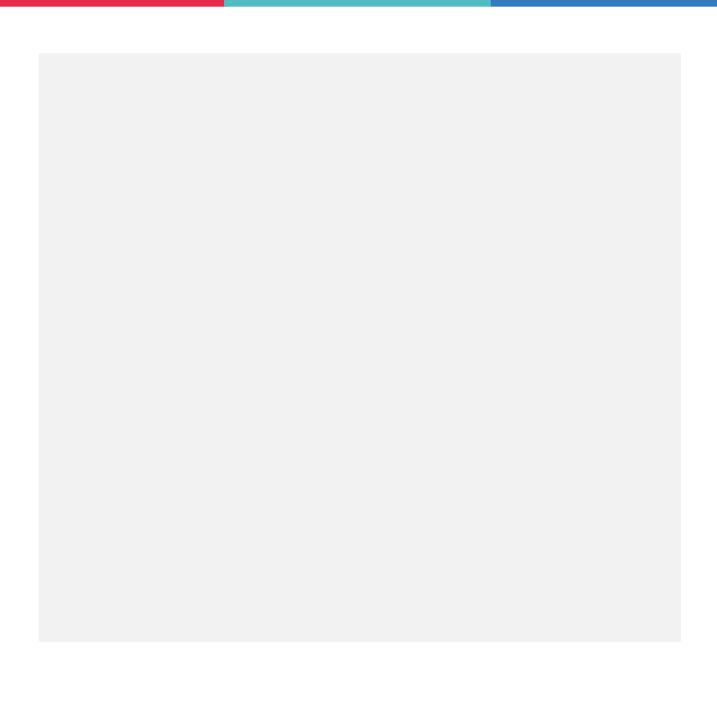
Pivot Tables in Excel are data tables that make visualisation of data much easier as it creates charts that are interchangeable via interface. PowerBI is a data visualisation tool. It is a collection of apps, connectors and software services: it pulls data from excel, as well as SQL databases and websites alike. It also generates graphs and tables. Tableau is a data visualisation software that features AI/ML(artificial intelligence and machine learning), which help with automated insights, predictions and data analysis, without knowing much of coding.

Tell me what you would choose when delivering your presentation and why

I would choose Excel, since it has Pivot Tables and allows me to generate charts. Since I predict the amount of data will not be very large, I can also use comparison tools to compare market trends and create things like the prospects table.

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.

