



Data Technician

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Day 1: Task 1

Please research and complete the below boxes on common 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

- **What is it:**
The Data Protection Act (UK, 2018) is a law that controls how personal information is used by organizations, businesses, and the government. It works alongside the GDPR.

	<ul style="list-style-type: none"> ● Why is it important: It ensures individuals' privacy is respected and that organizations handle data fairly, lawfully, and transparently. ● Real-world example: A company collects customer emails for a newsletter. It must tell users how their data will be used and get consent before sending emails. ● How it impacts working with data: Employees must ensure personal data is stored securely, used only for the intended purpose, and kept only as long as necessary. ● What could happen if you breached it: You could face legal action, fines (up to £17.5 million or 4% of annual turnover), and damage to reputation.
GDPR	<p>What is it: A regulation in EU law (also applied in the UK) that governs how personal data is processed and gives individuals more control over their information.</p> <p>Why is it important: It strengthens data protection and gives individuals rights like access to their data, the right to be forgotten, and data portability.</p> <p>Real-world example: Before collecting customer data on a website, a company uses a consent form and allows users to opt in or out of cookies.</p> <p>How it impacts working with data: Staff must ensure data processing is transparent, secure, and that users can request changes or deletion of their data at any time.</p> <p>What could happen if you breached it: Heavy fines (up to €20 million or 4% of annual turnover), lawsuits, and loss of customer trust.</p>
Freedom of Information Act	<p>What is it: A UK law giving the public the right to access information held by public authorities (e.g., councils, NHS, government departments).</p>



	<p>Why is it important: It promotes transparency and accountability in public services.</p> <p>Real-world example: A citizen requests information from a local council about how public money is being spent. The council must respond within 20 working days.</p> <p>How it impacts working with data: Employees in public sectors must organize and manage data properly to respond quickly and legally to requests.</p> <p>What could happen if you breached it: Failure to respond or deliberate obstruction can lead to investigations by the Information Commissioner's Office (ICO) and penalties.</p>
<p>Computer Misuse Act</p>	<p>What is it: A UK law that criminalizes unauthorized access to computer systems and data, including hacking and spreading malware.</p> <p>Why is it important: It protects systems and data from malicious attacks or unauthorized use.</p> <p>Real-world example: An employee accessing confidential files without permission, even out of curiosity, could be prosecuted under this act.</p> <p>How it impacts working with data: Access to systems and data must be strictly controlled, and staff must only use systems for authorized purposes.</p> <p>What could happen if you breached it: Penalties include criminal prosecution, fines, imprisonment, and job loss.</p>

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:



1. 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'

Print screen 1

	A	B	C	D	E	F	G	H	I	J
	Transaction ID	Date	Customer ID	Gender	Age	Product Category	Quantity	Price per Unit		
1	1	11/24/2023	CUST001	Male		34 Beauty	3	50		
2	2	2/27/2023	CUST002	Female		26 Clothing	2	500		
3	3	1/13/2023	CUST003	Male		50 Electronics	1	30		
4	4	5/21/2023	CUST004	Male		37 Clothing	1	500		
5	5	5/6/2023	CUST005	Male		30 Beauty	2	50		
6	6	4/25/2023	CUST006	Female		45 Beauty	1	30		
7	7	3/13/2023	CUST007	Male		46 Clothing	2	25		
8	8	2/22/2023	CUST008	Male		30 Electronics	4	25		
9	9	12/13/2023	CUST009	Male		63 Electronics	2	300		
10	10	10/7/2023	CUST010	Female		52 Clothing	4	50		
11	11	2/14/2023	CUST011	Male		23 Clothing	2	50		
12	12	10/30/2023	CUST012	Male		35 Beauty	3	25		
13	13	8/5/2023	CUST013	Male		22 Electronics	3	500		
14	14	1/17/2023	CUST014	Male		64 Clothing	4	30		
15	15	1/16/2023	CUST015	Female		42 Electronics	4	500		
16	16	2/17/2023	CUST016	Male		19 Clothing	3	500		
17	17	4/22/2023	CUST017	Female		27 Clothing	4	25		
18	18	4/30/2023	CUST018	Female		47 Electronics	2	25		
19	19	9/16/2023	CUST019	Female		62 Clothing	2	25		
20	20	11/5/2023	CUST020	Male		22 Clothing	3	300		
21	21	1/14/2023	CUST021	Female		50 Beauty	1	500		
22	22	10/15/2023	CUST022	Male		18 Clothing	2	50		
23	23	4/12/2023	CUST023	Female		35 Clothing	4	30		
24	24	11/29/2023	CUST024	Female		49 Clothing	1	300		
25	25	12/26/2023	CUST025	Female		64 Beauty	1	50		
26	26	10/7/2023	CUST026	Female		28 Electronics	2	500		
27	27	8/3/2023	CUST027	Female		38 Beauty	2	25		
28	28	4/23/2023	CUST028	Female		43 Beauty	1	500		
29	29	8/18/2023	CUST029	Female		42 Electronics	1	30		
30	30	10/29/2023	CUST030	Female		39 Beauty	3	300		
31	31	5/23/2023	CUST031	Male		44 Electronics	4	300		
32	32	1/4/2023	CUST032	Male		30 Beauty	3	30		
33	33	3/23/2023	CUST033	Female		50 Electronics	2	50		
34	34	12/24/2023	CUST034	Female		51 Clothing	3	50		
35	35	8/5/2023	CUST035	Female		58 Beauty	3	300		
36	36	6/24/2023	CUST036	Male		52 Beauty	3	300		

Print screen 2

	A	B	C	D	E	F	G	H	I
	Transaction ID	Date	Customer ID	Gender	Age	Product Category	Quantity	Price per Unit	
	1	11/24/2023	CUST001	Male		64 Beauty	3	50	
	2	2/27/2023	CUST002	Female		64 Clothing	2	500	
	3	1/13/2023	CUST003	Male		64 Electronics	1	30	
	4	5/21/2023	CUST004	Male		64 Clothing	1	500	
	5	5/6/2023	CUST005	Male		64 Beauty	2	50	
	6	4/25/2023	CUST006	Female		64 Beauty	1	30	
	7	3/13/2023	CUST007	Male		64 Clothing	2	25	
	8	2/22/2023	CUST008	Male		64 Electronics	4	25	
	9	12/13/2023	CUST009	Male		64 Electronics	2	300	
	10	10/7/2023	CUST010	Female		64 Clothing	4	50	
	11	2/14/2023	CUST011	Male		64 Clothing	2	50	
	12	10/30/2023	CUST012	Male		64 Beauty	3	25	
	13	8/5/2023	CUST013	Male		64 Electronics	3	500	
	14	1/17/2023	CUST014	Male		64 Clothing	4	30	
	15	1/16/2023	CUST015	Female		64 Electronics	4	500	
	16	2/17/2023	CUST016	Male		64 Clothing	3	500	
	17	4/22/2023	CUST017	Female		64 Clothing	4	25	
	18	4/30/2023	CUST018	Female		64 Electronics	2	25	
	19	9/16/2023	CUST019	Female		64 Clothing	2	25	
	20	11/5/2023	CUST020	Male		64 Clothing	3	300	
	21	1/14/2023	CUST021	Female		64 Beauty	1	500	
	22	10/15/2023	CUST022	Male		64 Clothing	2	50	
	23	4/12/2023	CUST023	Female		64 Clothing	4	30	
	24	11/29/2023	CUST024	Female		64 Clothing	1	300	
	25	12/26/2023	CUST025	Female		64 Beauty	1	50	
	26	10/7/2023	CUST026	Female		28 Electronics	2	500	
	27	8/3/2023	CUST027	Female		38 Beauty	2	25	
	28	4/23/2023	CUST028	Female		43 Beauty	1	500	
	29	8/18/2023	CUST029	Female		42 Electronics	1	30	
	30	10/29/2023	CUST030	Female		39 Beauty	3	300	
	31	5/23/2023	CUST031	Male		44 Electronics	4	300	
	32	1/4/2023	CUST032	Male		30 Beauty	3	30	
	33	3/23/2023	CUST033	Female		50 Electronics	2	50	
	34	12/24/2023	CUST034	Female		51 Clothing	3	50	
	35	8/5/2023	CUST035	Female		58 Beauty	3	300	
	36	6/24/2023	CUST036	Male		52 Beauty	3	300	



Print screen 3

Transaction ID	Date	Customer ID	Gender	Age	Product Category	Quantity	Price per Unit	Commision
1	11/24/2023	CUST001	Male		64 Beauty	3	50	15
2	2/27/2023	CUST002	Female		64 Clothing	2	500	100
3	1/13/2023	CUST003	Male		64 Electronics	1	30	3
4	5/21/2023	CUST004	Male		64 Clothing	1	500	50
5	5/6/2023	CUST005	Male		64 Beauty	2	50	10
6	4/25/2023	CUST006	Female		64 Beauty	1	30	3
7	3/13/2023	CUST007	Male		64 Clothing	2	25	5
8	2/22/2023	CUST008	Male		64 Electronics	4	25	10
9	12/13/2023	CUST009	Male		64 Electronics	2	300	60
10	10/7/2023	CUST010	Female		64 Clothing	4	50	20
11	2/14/2023	CUST011	Male		64 Clothing	2	50	10
12	10/30/2023	CUST012	Male		64 Beauty	3	25	7.5
13	8/5/2023	CUST013	Male		64 Electronics	3	500	150
14	1/17/2023	CUST014	Male		64 Clothing	4	30	12
15	1/16/2023	CUST015	Female		64 Electronics	4	500	200
16	2/17/2023	CUST016	Male		64 Clothing	3	500	150
17	4/22/2023	CUST017	Female		64 Clothing	4	25	10
18	4/30/2023	CUST018	Female		64 Electronics	2	25	5
19	9/16/2023	CUST019	Female		64 Clothing	2	25	5
20	11/5/2023	CUST020	Male		64 Clothing	3	300	90
21	1/14/2023	CUST021	Female		64 Beauty	1	500	50
22	10/15/2023	CUST022	Male		64 Clothing	2	50	10
23	4/12/2023	CUST023	Female		64 Clothing	4	30	12
24	11/29/2023	CUST024	Female		64 Clothing	1	300	30

Print screen 4

er Unit	Commision	Average Commision							
50	15	45.6							
500	100	45.6306306							
30	3	45.5761523							
500	50	45.6188566							
50	10	45.6144578							
30	3	45.6502513							
25	5	45.693159							
25	10	45.734139							
300	60	45.7701613							
50	20	45.7558022							
50	10	45.7818182							
25	7.5	45.817998							
500	150	45.8567814							
30	12	45.7512665							
500	200	45.785497							
500	150	45.628934							
25	10	45.5228659							
25	5	45.5590031							
25	5	45.6003055							
300	90	45.6416922							
500	50	45.5964286							
50	10	45.5919305							
30	12	45.6283231							
300	30	45.6627431							
50	5	45.6306306							
Commision		45600							
Average Commision		40598.6099							

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					

Print screen 1	Student name	English	Mathema	Science	Average	Highest score
	Ted	80	75	90	81.666667	90
	Carol	75	85	85	81.666667	85
	Khan	85	75	80	80	85
	Harry	80	70	80	76.666667	80
	Sarah	80	70	80	76.666667	80
	John	65	80	70	71.666667	80
	Linda	90	50	70	70	90
	Mary	55	70	65	63.333333	70
	Thomas	55	30	65	50	65
	Edward	55	80	60	65	80

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!



2	=IF([@Age]>60,"Senior",IF([@Age]>25,"Adult","Young Adults"))								
	A	B	C	D	E	F	G	H	I
1	Transaction ID	Date	Customer ID	Gender	Age	Age Group	Product Category	Quantity	Price per Unit
2	1	11/24/2023	CUST001	Male	34	Adult	Beauty	3	50
3	2	2/27/2023	CUST002	Female	26	Adult	Clothing	2	500
4	3	1/13/2023	CUST003	Male	50	Adult	Electronics	1	30
5	4	5/21/2023	CUST004	Male	37	Adult	Clothing	1	500
6	5	5/6/2023	CUST005	Male	30	Adult	Beauty	2	50
7	6	4/25/2023	CUST006	Female	45	Adult	Beauty	1	30
8	7	3/13/2023	CUST007	Male	46	Adult	Clothing	2	25
9	8	2/22/2023	CUST008	Male	30	Adult	Electronics	4	25
10	9	12/13/2023	CUST009	Male	63	Senior	Electronics	2	300
11	10	10/7/2023	CUST010	Female	52	Adult	Clothing	4	50
12	11	2/14/2023	CUST011	Male	23	Young Adults	Clothing	2	50
13	12	10/30/2023	CUST012	Male	35	Adult	Beauty	3	25
14	13	8/5/2023	CUST013	Male	22	Young Adults	Electronics	3	500
15	14	1/17/2023	CUST014	Male	64	Senior	Clothing	4	30
16	15	1/16/2023	CUST015	Female	42	Adult	Electronics	4	500
17	16	2/17/2023	CUST016	Male	19	Young Adults	Clothing	3	500
18	17	4/22/2023	CUST017	Female	27	Adult	Clothing	4	25
19	18	4/30/2023	CUST018	Female	47	Adult	Electronics	2	25
20	19	9/16/2023	CUST019	Female	62	Senior	Clothing	2	25
21	20	11/5/2023	CUST020	Male	22	Young Adults	Clothing	3	300
22	21	1/14/2023	CUST021	Female	50	Adult	Beauty	1	500

Formula Bar: `=VLOOKUP(A9,retail_sales_dataset!A:G,6`

	A	B	C	D
1	Transaction ID	Total Sales	Product category	
2	10		Adult	
3	15		Adult	
4	25		Senior	
5	30		Adult	
6	54		Adult	
7	55		Adult	
8	67		Adult	
9	89		Adult	
10	100		Adult	
11				
12				
13				
14				
15				
16				
17				





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

Any other findings?

2		
3	Age_Group	Sum of Profit
4	Adults (35-64)	57.18%
5	Young Adults (25-34)	33.00%
6	Youth (<25)	9.82%
7	Grand Total	100.00%
8		

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:

- ## Dataset:

Data Technician | Workbook | v1.

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:

- For sales greater than 600: "**High**"
- For sales between 300 and 600: "**Medium**"
- 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.
- In 'Sales Volume' you need to remove the space after each amount
- Confirm the data type is numerical

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.
 - Please paste your completed work below

Print screen 1



	A	B	C	D	
1	County	Product	Sales Volume	Sales Category	
2	Yorkshire	Laptops	500	Medium	
3	Yorkshire	Smartphones	200	Low	
4	Cornwall	Laptops	700	High	
5	Cornwall	Printers	400	Medium	
6	Lancashire	Smartphones	150	Low	
7	Lancashire	Laptops	600	Medium	
8	Essex	Printers	800	High	
9	Essex	Smartphones	300	Medium	
10	Durham	Laptops	250	Low	
11	Durham	Printers	300	Medium	
12	Greater Manchester	Smartphones	600	Medium	
13	Greater Manchester	Laptops	400	Medium	
14					

	A	B	C	D	E	F
1						
2						
3	Sum of Sales Volume	Product				
4	County	Laptops	Printers	Smartphones	Grand Total	
5	Cornwall	700	400		1100	
6	Durham	250	300		550	
7	Essex		800	300	1100	
8	Greater Manchester	400		600	1000	
9	Lancashire	600		150	750	
10	Yorkshire	500		200	700	
11	Grand Total	2450	1500	1250	5200	
12						
13						
14						
15						

Day 3: Task 3

Please download the dataset 'Day_3_Task_3_Bike_Sales_Visualisations_Lab.xlsx' from [here](#).

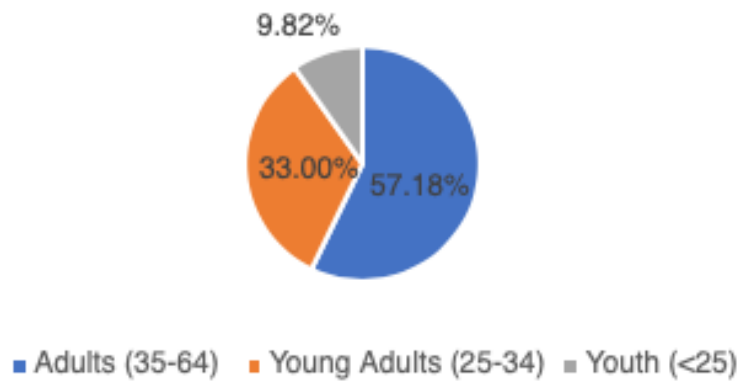
The lab instructions can be found [here](#). Do not worry if you do not complete the lab, just working with data and playing with the charts will be good experience.

Please paste your results below:

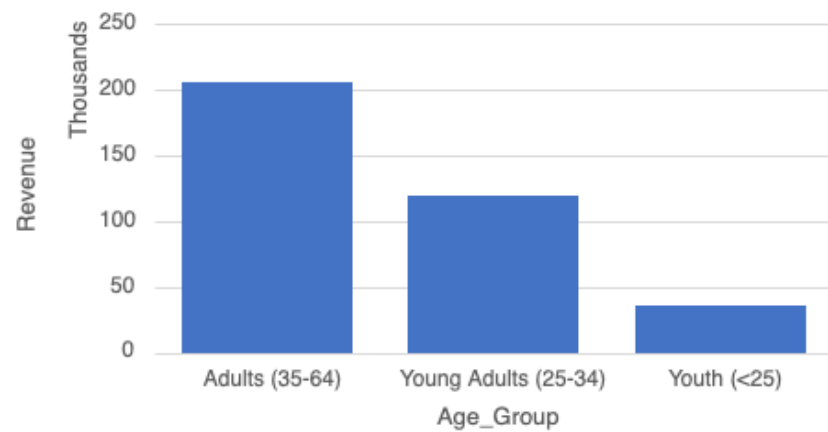
Print screen 1



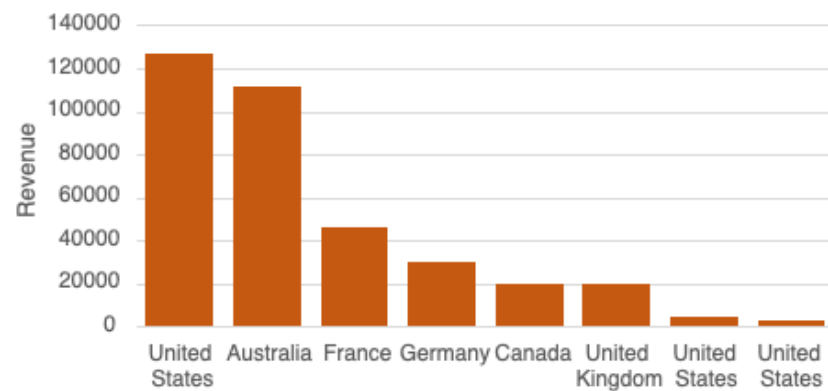
' Profit ' by 'Age_Group'

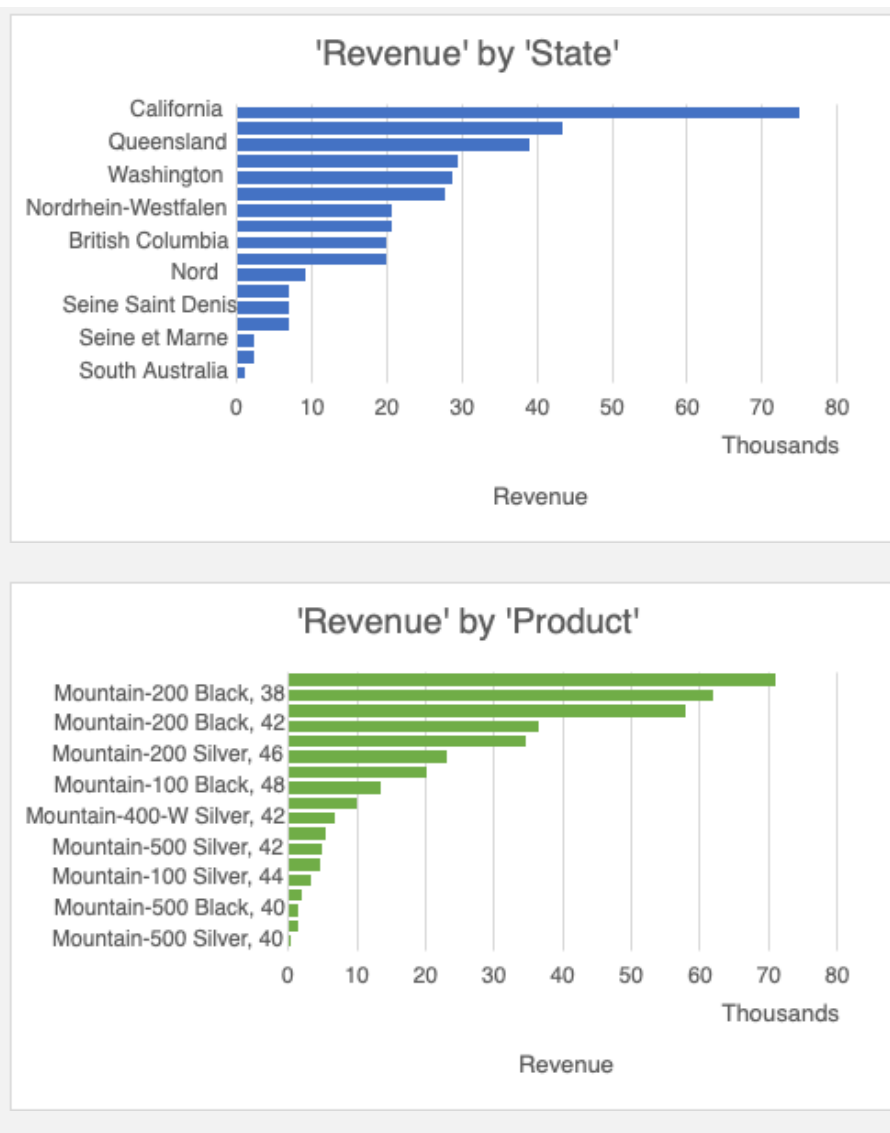


'Revenue' by 'Age_Group'



'Revenue' by '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?

Understand Your Audience: Tailor your presentation to senior leaders who will be interested in clear, data-backed recommendations with business impact.

Craft a Clear Narrative:

- Problem: Customers leave at 12-month renewal.



	<ul style="list-style-type: none"> ● Insight: Link this churn with pricing, customer experience, or retention strategies. ● Action: Recommend a retention strategy. <p>Use Data to Support Claims: Highlight internal metrics (e.g., cost per employee, customer acquisition cost, payroll efficiency) to show potential ROI of retention strategies.</p> <p>Practice Your Pitch: Rehearse with peers or record yourself to gain confidence and clarity.</p> <p>Prepare for Questions: Anticipate objections or deeper questions about financials, timelines, or implementation costs.</p>
What tools would you use for the delivery?	<p>Microsoft PowerPoint or Google Slides: For structured, clean visual presentation.</p> <p>Excel or Google Sheets: To reference the payroll/headcount data.</p> <p>Power BI or Tableau: For interactive dashboards and visuals if available.</p> <p>Zoom or MS Teams: For remote delivery, with screen sharing and chat Q&A.</p> <p>Canva: If you need highly polished, branded visuals.</p>
What is prospecting and why would you complete this before your delivery?	<p>Prospecting is the process of researching and understanding your audience, their needs, pain points, and expectations before engagement.</p> <p>Why It Matters:</p> <ul style="list-style-type: none"> ● Helps customize your message to resonate with the board's goals (e.g., profitability, retention).



	<ul style="list-style-type: none"> ● Uncovers strategic interests or current initiatives the board is focused on (e.g., cost-cutting vs. growth). ● Ensures your delivery is relevant and impactful, increasing buy-in.
Tell me best practices for public speaking and providing updates to senior leaders	<p>Be Concise: Avoid technical jargon and long-winded explanations.</p> <p>Lead with Key Insights: Get to the point quickly—start with conclusions.</p> <p>Use Storytelling: Frame data in a narrative that creates engagement.</p> <p>Data Visualization: Use charts and graphs instead of data tables.</p> <p>Rehearse Timing: Ensure your delivery fits within the allotted time.</p> <p>Confident Body Language: Stand tall, make eye contact, use hand gestures.</p> <p>Anticipate Objections: Be prepared with answers or next steps.</p> <p>End with a Call to Action: Clearly state what you want from them—approval, budget, feedback, etc.</p>
What will you show the board in your delivery?	<p>Key Finding: Customer churn spikes at the 12-month renewal point.</p> <p>Data Snapshot:</p> <ul style="list-style-type: none"> ● Cost of replacing a lost customer. ● Payroll efficiency—how many resources are focused on retention?



	<ul style="list-style-type: none"> ● Comparison of salaries by department—e.g., is Sales sufficiently staffed or overpaid relative to impact? <p>Churn Trends: Visual chart showing churn by month.</p> <p>Recommendations:</p> <ul style="list-style-type: none"> ● Adjust renewal communication strategy. ● Offer loyalty discounts. ● Introduce customer success check-ins at 9 and 11 months. <p>Expected Outcomes:</p> <ul style="list-style-type: none"> ● Lower churn. ● Increased revenue per customer. ● Lower CAC (customer acquisition cost) over time.
<p>How will you articulate the changes that are needed?</p>	<p>Use “Why > What > How” Framework:</p> <ul style="list-style-type: none"> ● Why: “We’re seeing a pattern of churn exactly at the renewal point. This is costing us £X annually.” ● What: “We propose a targeted retention strategy—new renewal pricing, earlier engagement.” ● How: “The rollout will be phased over 3 months. The cost is minimal compared to retention revenue gains.” <p>Use Financial Justification:</p> <ul style="list-style-type: none"> ● “Improving retention by just 10% could increase annual revenue by £Y without additional customer acquisition spend.”



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

YouTube Channels:

- TEDx Talks: Learn storytelling and pacing from pros.
- Harvard Business Review: Presentation skills for executives.
- Amy Cuddy's TED Talk on body language.

Courses:

- [LinkedIn Learning – Public Speaking Foundations](#)
- [Coursera – Dynamic Public Speaking by University of Washington](#)
- Toastmasters International

Books:

- “Talk Like TED” by Carmine Gallo
- “Confessions of a Public Speaker” by Scott Berkun

Evaluate tools that provide visualisation.

Tell me what they are.

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


a. What they are:

- **Excel/Google Sheets:** Basic but effective for quick charts and tables.
- **Power BI:** Microsoft’s business analytics tool for dashboards, KPIs, interactivity.
- **Tableau:** Industry-leading tool for powerful, beautiful visual storytelling.
- **Looker Studio (formerly Google Data Studio):** Great for web-based dashboard sharing.

b. What I would choose and why:

- For this delivery: **Power BI or Tableau** (depending on availability)
 - **Why:**
 - Clean visuals with interactive elements.



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- Integration with Excel for payroll/headcount data.
 - Professional and impactful in boardroom settings.
 - If these are unavailable, use **PowerPoint + Excel visuals**, ensuring high contrast (e.g., dark background with bright charts for visual appeal).

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:



- =SUM(A1:A10) — Adds all numbers in cells A1 through A10
- =AVERAGE(A1:A10) — Calculates the average of numbers in A1 to A10
- =MIN(A1:A10) — Finds the smallest number in the range
- =MAX(A1:A10) — Finds the largest number in the range
- =CONCATENATE(A1, " ", B1) or =A1 & " " & B1 — Joins text from A1 and B1 with a space
- =TRIM(A1) — Removes extra spaces from text
- =VLOOKUP(lookup_value, table_array, col_index, [range_lookup]) — Looks up a value vertically
- =ROUND(A1, 2) — Rounds number in A1 to 2 decimal places
- =COUNTA(A1:A10) — Counts non-empty cells in range
- =COUNTIF(A1:A10, ">5") — Counts cells with values greater than 5



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.

