DEAR DATA ANALYST - 2025

Business Knowledge		TITLE	CASE STUDY
	1	Walmart	Walmart Finance standardizes on Power BI for reporting and analytics | Microsoft Customer Stories
	2	Burger King	Burger King's Secret STRATEGY to compete with McDonald's: Burger Wars Ep 1
	3	IKEA	IKEA Business Case Study: How to Earn 40 Billion$ Every Year by Selling Furniture? (IKEA Effect)
	4	Amazon vs Blinkit	https://youtu.be/OGs2YsqvWDg?si=OMX1V8LYLvdaNMnI

Statistics		TITLE	RESOURCES	
	1	Mean, Median, Mode	https://youtu.be/YAOoKUT74TI?si=XduHNQ2gx4y-1SqR	
	2	Percentiles & Quartiles	https://youtu.be/SZ07hyMEOAU?si=czwNHDuw8TuSwYEn https://www.khanacademy.org/math/pre-algebra/xb4832e56:	
	3	Range, Variance & Standard deviation	https://youtu.be/ovq5InIpF2U?si=l5Y584KUvgv1-tjM	
	4	Normalization & Standardisation	https://youtu.be/POrcNP2Zhc8?si=L37k0JmyMa8nJGPb	QUIZES
	5	Covariance	https://youtu.be/qtaqvPAeEJY?si=fkuLI8pSdPddFgHE	Statistics and Probability | Khan Academy
	6	Correlation	https://youtu.be/xZ_z8KWkhXE?si=JE-SclbDz8h_ksdd	https://www.geeksforgeeks.org/quizzes/statistics-quiz-trivia-mcq-questions-solution/
	7	P value & hypothesis testing	https://youtu.be/xdZSWsKk5P0?si=xHfAzJtdM2HaKAnt	

Excel		Title	Resources	
	1	Excel	https://www.w3schools.com/excel/excel_introduction.php	Assignment
	2	Basics	https://youtu.be/0tdlR1rBwkM?si=luRkZnz2oWTdIzzL	Create your own timetable from mon to friday
	3	Excel Formatting	https://www.youtube.com/watch?v=E6el9uIJphQ	
	4	Excel Sorting	https://youtu.be/m97Rbqs6ico?si=QH_vYIsmNp9hs6At	
	5	Filtering	https://youtu.be/4mZNhE1rnzQ?si=KKYOE98aVc0tuwQB	
	6	Charts	https://www.youtube.com/watch?v=DAU0qqh_I-A	
	7	Formulas	https://www.youtube.com/watch?v=y1126PQ5zRU https://youtu.be/ShBTJrdioLo?si=ygRlQL2A01bMwC89	
	8	Combining data from 2 tables (VLOOKUP)	https://youtu.be/8rtvDQVQaA0?si=f_rRzChTYqkrxB4C	Free Practice Excel templates
	9	Combining data from 2 tables (INDEXMATCH)	https://www.youtube.com/watch?v=kly0uPIM4IU	https://www.vertex42.com/ExcelTemplates/family-budget-planner.html
	10	Combining data from 2 tables (XLOOKUP)	https://youtu.be/4c0CLUER6nw?si=uFpmzQWxK1WPtuiz	
	11	Pivot tables	https://youtu.be/zuSNd1ZMfBI?si=0z0Q2Gve9r-Eel7n	Sample https://chandoo.org/wp-content/upl.

SQL		TITLE	RESOURCES	
	1	MYSQL Installation	https://youtu.be/wgRwITQHszU?si=Zc44ZHpDupoAzIDG	SQL for beginners: https://www.youtube.com/watch?v=Rm0xH2Vpfi0
	2	Fetch data	SQL Select	https://www.w3schools.com/sql/sql_select.asp	https://youtu.be/yfWcZ6eot4g?si=WA0sTHCMj6vhskLo
			SQL Distinct	https://www.w3schools.com/sql/sql_distinct.asp	
			SQL Like	https://www.w3schools.com/sql/sql_like.asp	
			SQL Where	https://www.w3schools.com/sql/sql_where.asp	SQL Normalization: https://www.youtube.com/watch?v=dBO8-cNyY6c
	3	Data location	Between	https://www.w3schools.com/sql/sql_between.asp	Primary key: https://www.w3schools.com/sql/sql_primarykey.asp
			In	https://www.w3schools.com/sql/sql_in.asp	Foreign Key: https://www.w3schools.com/sql/sql_foreignkey.asp
			Order By	https://www.w3schools.com/sql/sql_orderby.asp	
			Offset & Limit	https://www.datacamp.com/tutorial/sql-offset	
	4	Aggregate function	Min & Max	https://www.w3schools.com/sql/sql_min_max.asp	Stored procedures: https://youtu.be/vJOsW41S16E?si=Sf-faumXC_HWxIrW
			Average	https://www.w3schools.com/sql/sql_avg.asp	
			group by	https://www.w3schools.com/sql/sql_groupby.asp	
			Having clause	https://www.w3schools.com/sql/sql_having.asp	Index in SQL
	5	conditions	SQL Case	https://www.w3schools.com/sql/sql_case.asp	https://youtu.be/FphutznHY_E?si=QCN07xUt9hypAnos
	6	comparisions	Any & all	https://www.w3schools.com/sql/sql_any_all.asp	
	7	Window functions		https://www.youtube.com/watch?v=rIcB4zMYMas	
	8	Joins	Inner	https://www.w3schools.com/sql/sql_join_inner.asp	Interview questions:
			Left	https://www.w3schools.com/sql/sql_join_left.asp	https://www.datacamp.com/blog/top-sql-interview-questions-and-answers-for-beginners-and-intermediate-practitioners
			Right	https://www.w3schools.com/sql/sql_join_right.asp	

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#	TITLE	RESOURCES		
		Full	https://www.w3schools.com/sql/sql_join_full.asp	SQL Coding Practice
		Cross	https://www.w3schools.com/mysql/mysql_join_cross.asp	DataLemur - Ace the SQL & Data Science Interview
9	SQL data types		https://www.w3schools.com/sql/sql_datatypes.asp	
10	Sub query		https://www.simplilearn.com/tutorials/sql-tutorial/sql-subquery#conclusion	
	Corelated subquery		https://www.youtube.com/watch?v=Oh6zbj9S7L4	
11	Common Table Expression	CTE	https://www.youtube.com/watch?v=pIpylD5jBEg	

Python	TITLE	RESOURCES	PYTHON SETUP	https://youtu.be/W-Bi6AjEQfM
1	Basic data types + operators	https://youtu.be/PTTd1jKx8_o?si=tA21SbK_jTjmfDGU		
2	Loops & if-else	https://youtu.be/zv3MVNy3I4E?si=nKs52v1BNBrte_0S		
3	Data Structures	List - https://youtu.be/N55AxhC6REU?si=CECji4YcidL9-jKF Set, tuple, dictionary - https://youtu.be/I0n6ABPSyQs?si=8-twgHjj6RsxqftY	PYTHON INTERVIEW QUESTIONS	https://www.hackerrank.com/blog/python-interview-questions-developers-should-know/
4	Functions	https://youtu.be/kY3DdsBs6Wk?si=C7bnaZQgUe1nWsYG		https://www.hackerrank.com/domains/python/py-introduction/difficulty/all/page/1
5	File Handling	https://youtu.be/-XQdyy8chuo?si=Xyx8q7Zp-HNkuv5k		https://www.hackerearth.com/practice/problems/?limit=20&offset=0
6	Numpy	https://youtu.be/y1cpttvUbtY?si=TBpY9oTGN3wlzdBP		
7	Pandas	https://youtu.be/3hTOHzo4Jf8?si=xJ0yeiWcmvERS-s0	API Framework	FastAPI - https://youtu.be/Wr1JjhTt1Xg?si=2O4Q5wuOAzFhHLTk
8	Data Visualization	Matplotlib - https://youtu.be/jv_2CXx630M?si=ZHmdwJaW6VKuQP_t Seaborn - https://youtu.be/2bLESc8KOgw?si=DU4c6mk4YNVs1xY9		StreamLit https://youtu.be/D0D4Pa22iG0?si=g08Mdj0yJ7ZJnim4
9	OOPS	https://youtu.be/R9Yia3aUooI?si=guDjGPbIX5ls_XDC		
10	Multi-threading/ Multi-processing	https://youtu.be/rDro-he___Q?si=OWQ8RjG7cKdR-dGt		

PowerBI	TITLE	RESOURCES	blog to follow https://chandoo.org/wp/power-query-tutorial/	
1	PowerBI into	https://youtu.be/al4OfLIOl2w?si=JeoaiRSSg_MBBzt		
2	Power Query	https://www.youtube.com/watch?v=MMdcczmULrU	interview questions: https://www.youtube.com/watch?v=aZihsRsEYTE	
3	OLTP vs OLAP	https://youtu.be/oF_2uDb7DvQ?si=85-oJRAcSzVUx90S		
4	Data Modelling- star schema - fact vs dimension table	https://www.youtube.com/watch?v=4ePNrdxWtY0		
5	Data transformation	https://www.youtube.com/watch?v=xYM-UwiBvOE&list=PL5tWfOTy8mUlH6eclgLEf8fvoi16qURWX&index=6		
6	Custom & calculated columns	https://www.youtube.com/watch?v=Oe8RH5VccC8&list=PL5tWfOTy8mUlH6eclgLEf8fvoi16qURWX&i	DAX Studio: https://www.youtube.com/watch?v=q7-IYTg6B0w	
7	Data visualization-charts	https://www.youtube.com/watch?v=5jrsrSDEMxE		
8	DAX	https://www.youtube.com/watch?v=lD7TvkoQ6rY		
9	Advanced data Transformations - M Language	https://www.youtube.com/watch?v=i6ywWi-Tb8g&list=PLVeRI2bVfScvZUTjxH_jccL0Btb6f2m0D	Report sharing: https://youtu.be/fmyuQ2Q1HN4?si=U_TJ0P4d_U4pUu7h	
10	Slicer & filter	https://www.youtube.com/watch?v=vmYrUoUalio	Refresh reports: https://youtu.be/kdaolMKsSOA?si=Ix_iZEQByuG0EqbO	
11	Bookmarks	https://youtu.be/xCMqWEvSkAs?si=ageWdlHKg8PEYPoL		
12	Tooltip	https://youtu.be/npaQ42K1sTs?si=fFbkSKXNy2AjaRmN		
13	Toggle button	https://youtu.be/5QMpc5fUV2I?si=CveUCPqXF6EDL5st		

	TITLE	RESOURCES			
	End-to-End Resume projects Playlist	https://www.youtube.com/playlist?list=PLeo1K3hjS3uva8pk1FI3iK9kCOKQdz1I9			
	Resume Tips	https://www.youtube.com/watch?v=buQSI8NLOMw			
	ATS Friendly Resume	https://www.jobscan.co/	https://resumeworded.com/	https://www.kickresume.com/en/	https://www.overleaf. / https://zety.com/
	How to create Portfolio Website?	https://startbootstrap.com/guides/how-to-create-a-website-with-github-pages#google_vignette			
	Sample Portfolio websites	https://codebasics.io/portfolio/Puranjoy-Patra			
	How to use chatGPT as a data analyst	https://storm-margin-1aa.notion.site/4-Technical-areas-where-you-can-leverage-AI-as-seen-in-the-session-			