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- Atliq Hardwares are focused on increasing revenue by improving product strengths and creating in-demand products.
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- The Company seeks Insights for ad hoc requests.



Atliq Hardware is a leading manufacturer of computer hardware in India and other nations, but it struggles to make prompt and wise choices based on data. The management intends to add more junior data analysts to the data analytics team. Tony Sharma, the head of data analytics, conducts a SQL challenge to identify applicants with both technical and soft skills.

Company Details

- Atliq is a hardware company which manufactures and sells various electronic items such as personal computer's/mouse/printers and sell to different customers such as Croma/Best Buy/Flipkart/Staples(Online Stores) which can further be bought by consumers.
- Atliq hardware follows September-August Fiscal year patter i.e. Fiscal year 2021 started in August 2020 and ended in September 2021

Data-Driven Decision making: Data should be the key aspect in making various decisions for the business.

DATA & REQUESTS



Codebasics SQL Challenge

Requests:

- Provide the list of markets in which customer "Atlig Exclusive" operates its business in the APAC region.
- What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields,

unique_products_2020 unique_products_2021 percentage_chg

Provide a report with all the unique product counts for each <u>segment</u> and sort them in descending order of product counts. The final output contains 2 fields.

> segment product_count

 Follow-up: Which segment had the most increase in unique products in 2021 vs 2020? The final output contains these fields,

> segment product_count_2020 product_count_2021 difference

Get the products that have the highest and lowest manufacturing costs.The final output should contain these fields,

product_code product manufacturing_cost

codebasics.io



 Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the <u>fiscal year 2021</u> and in the <u>Indian</u> market. The final output contains these fields,

> customer_code customer average discount percentage

7. Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month. This analysis helps to get an idea of low and high-performing months and take strategic decisions.

The final report contains these columns: Month

> Year Gross sales Amount

In which quarter of 2020, got the maximum total_sold_quantity? The final output contains these fields sorted by the total_sold_quantity,
 Quarter

total sold quantity

 Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields, channel

> gross_sales_mln percentage

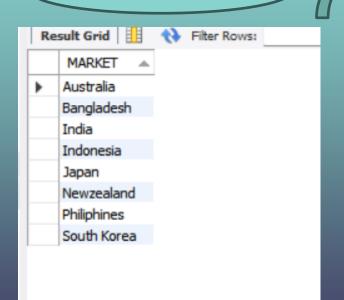
 Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021? The final output contains these fields,

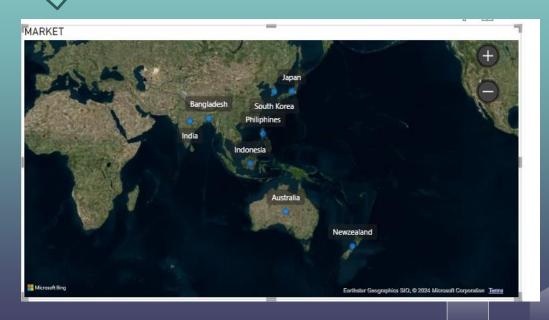
> division product code

> > codebasics.io

Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region.

SQL OUTPUT

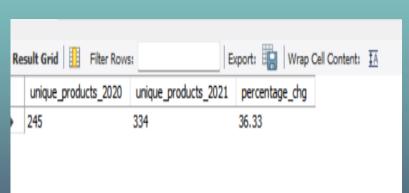


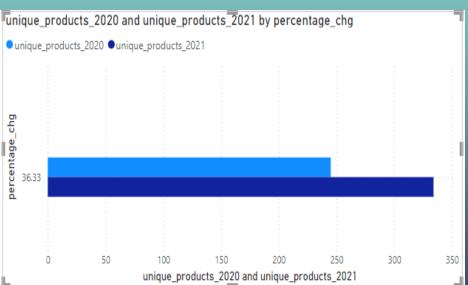


What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields,

SQL OUTPUT







Percentage change is 36.33%

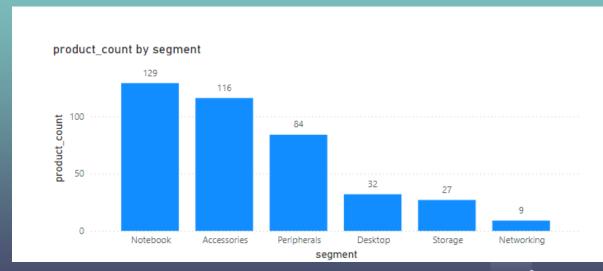
** Demand of product is increased

Provide a report with all the unique product counts for each segment and sort them in descending order of product counts.

SQL OUTPUT



K	esult Grid	N Filter Rows:
	segment	product_count
٠	Notebook	129
	Accessi Acc	essories
	Peripherals	84
	Desktop	32
	Storage	27
	Networking	9



Notebook is Manufacturing significantly more than others

Which segment had the most increase in unique products in 2021 vs 2020?

SQL OUTPUT



Re	sult Grid	Filter Rows:	Export:	Export: 📳 Wrap Cell Content: 🛂		
	segment	product_count_2020	product_count_2021	difference		
>	Accessories	69	103	34		
	Desktop	7	22	15		
	Networking	6	9	3		
	Notebook	92	108	16		
	Peripherals	59	75	16		
	Storage	12	17	5		

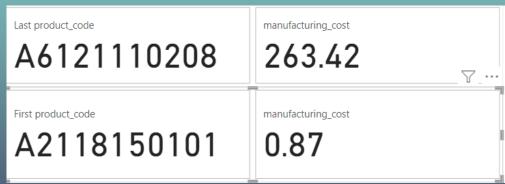
segment	product_count_2020	product_count_2021	%difference
Accessories	69	103	38.20%
Notebook	92	108	17.98%
Peripherals	59	75	17.98%
Desktop	7	22	16.85%
Storage	12	17	5.62%
Networking	6	9	3.37%

Accessories is most increased product from 2020 to 2021

Get the products that have the highest and lowest manufacturing costs.







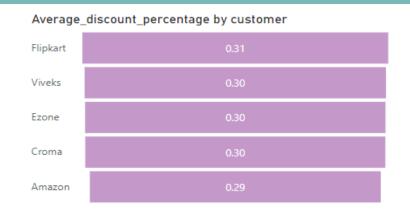
"AQ HOME Allin1 Gen 2" is highest manufacturing cost and "AQ Master wired x1 Ms" is lowest manufacturing cost

Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market

SQL OUTPUT



Re	Result Grid				
	customer_code	customer	average_discount_percentage		
•	90002009	Flipkart	0.3083		
	90002006	Viveks	0.3038		
	90002003	Ezone	0.3028		
	90002002	Croma	0.3025		
	90002016	Amazon	0.2933		



"FlipKart is top 1 customer which having average high discount pct in India -2021

Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month. This analysis helps to get an idea of low and high-performing months and take strategic decisions.

SQL OUTPUT

Result Grid				
month	fiscal_year	Gross sales Amount		
April	2020	6007493.5240		
August	2020	8376236.5671		
December	2020	43882482.1350		
February	2020	11792179.4863		
January	2020	14252643.8589		
July	2020	11744639.3080		
June	2020	9355713.1437		
March	2020	9643465.8966		
May	2020	10230609.2704		
November	2020	70459845.4499		
October	2020	44545756.1913		
September	2020	41469135.7278		
April	2021	9183069.6260		
August	2021	11504213.6545		
December	2021	68502464 7875		

Gross Sales for fiscal year "2020" is 281.1M

Gross Sales for fiscal year "2021" is 428.3M

In which quarter of 2020, got the maximum total_sold_quantity?

SQL OUTPUT

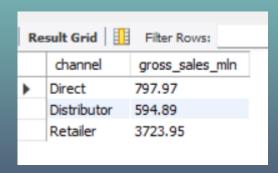
R	esult Grid	Filter Rows:
	Quarter	total_sold_quantity
١	Q1	7005619
	Q2	6649642
	Q3	2075087
	Q4	5042541



Quarter1 is most sold quantity, significantly reduce the quantity of sold in FY 2020 by quarter

Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution?

SQL OUTPUT

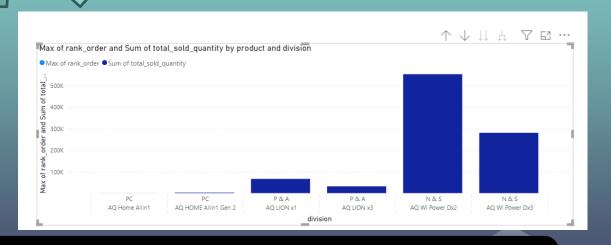


Retailer has more gross sales than Distributers, which is three thousand Million sales differ and having 72.77% retailer ,11.6% Distributer sales

GET the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021?

SQL OUTPUT

	division	product_code	product	total_sold_quantity	rank_order
•	N & S	A7219160201	AQ Wi Power Dx2	275328	1
	N & S	A7220160203	AQ Wi Power Dx2	277299	2
	N & S	A7321160301	AQ Wi Power Dx3	281363	3
	P&A	A3920150304	AQ LION x3	33523	1
	P&A	A3718150102	AQ LION x1	34022	2
	P&A	A3718150105	AQ LION x1	34080	3
	PC	A6018110106	AQ Home Allin1	2281	1
	PC	A6119110202	AQ HOME Allin1 Gen 2	2285	2
	PC	A6119110204	AO HOME Allin 1 Gen 2	2286	3



In Peripherals and Accessories division highest total sold quantity is 33523 and Networking and Storage division highest sold quantity is 275328, Personal Computer division is 2281

