



Don't Limit

```
1  /*Provide the list of markets in which customer "Atliq Exclusive"
2  operates its business in the APAC region*/
3
4  •  SELECT
5     DISTINCT(c.market)
6     FROM dim_customer c
7     WHERE customer = "Atliq Exclusive"
8     AND
9     region = "APAC"
10    ORDER BY c.market
11
12
13
```

Result Grid



Filter Rows:

Export:



Wrap Cell Contents:



	market
▶	Australia
	Bangladesh
	India
	Indonesia
	Japan
	Newzealand
	Philippines
	South Korea



Result  
Grid



Form  
Editor



Field  
Tuner



Don't Limit

```
1  /* What is the percentage of unique product increase in 2021 vs. 2020? The final output contains
2  these fields,
3  unique_products_2020
4  unique_products_2021
5  percentage_chg*/
6
7
8  WITH Products_counts AS(
9  SELECT
10  COUNT(DISTINCT CASE WHEN fiscal_year = 2020 THEN product_code END) as unique_products_2020,
11  COUNT(DISTINCT CASE WHEN fiscal_year = 2021 THEN product_code END) as unique_products_2021
12  FROM fact_sales_monthly)
13  SELECT *,
14  (unique_products_2021 - unique_products_2020)*100/unique_products_2020 as Percentage_chg
15  FROM Products_counts
16
17
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [A](#)

	unique_products_2020	unique_products_2021	Percentage_chg
▶	245	334	36.3265



Result  
Grid



Don't Limit

```
1  /* Provide a report with all the unique product counts for each segment and sort them in descending order
2  of product counts. The final output contains segment,product_count */
3
4  •  SELECT
5      segment,
6      COUNT(DISTINCT product_code) as product_count
7  FROM dim_product
8  GROUP BY segment
9  ORDER BY product_count DESC
10
11
12
13
14
```

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

	segment	product_count
▶	Notebook	129
	Accessories	116
	Peripherals	84
	Desktop	32
	Storage	27
	Networking	9



Result  
Grid



Form  
Editor




```


1  /*Follow-up: Which segment had the most increase in unique products in 2021 vs 2020? The final output
2  contains these fields, segment,product_count_2020, product_count_2021, difference*/
3
4  • WITH Segment_product_count AS (SELECT
5      segment,
6      COUNT(DISTINCT CASE WHEN fiscal_year = 2020 THEN p.product_code END) AS unique_product_count_2020,
7      COUNT(DISTINCT CASE WHEN fiscal_year = 2021 THEN p.product_code END) AS unique_product_count_2021
8      FROM dim_product p
9      JOIN fact_sales_monthly s
10     ON p.product_code = s.product_code
11     GROUP BY segment)
12     SELECT *,
13     (unique_product_count_2021 - unique_product_count_2020) AS difference
14     FROM Segment_product_count
15     ORDER BY difference DESC
    
```

**Result Grid**

 Filter Rows: 
 Export: 
 Wrap Cell Content: 

	segment	unique_product_count_2020	unique_product_count_2021	difference
▶	Accessories	69	103	34
	Notebook	92	108	16
	Peripherals	59	75	16
	Desktop	7	22	15
	Storage	12	17	5
	Networking	6	9	3


  
 Result Grid


  
 Form Editor



Don't Limit

```
1  /*Get the products that have the highest and lowest manufacturing costs.The final output should
2  contain these fields product_code, product, manufacturing_cost*/
3
4  (SELECT p.product_code,p.product, fmc.manufacturing_cost
5  FROM dim_product p
6  JOIN fact_manufacturing_cost fmc
7  ON p.product_code = fmc.product_code
8  GROUP BY p.product_code
9  ORDER BY fmc.manufacturing_cost DESC
10 LIMIT 1)
11 UNION
12 (SELECT p.product_code, p.product, fmc.manufacturing_cost
13 FROM dim_product p
14 JOIN fact_manufacturing_cost fmc
15 ON p.product_code = fmc.product_code
16 GROUP BY p.product_code
17 ORDER BY fmc.manufacturing_cost ASC
18 LIMIT 1)
```

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

	product_code	product	manufacturing_cost
▶	A6121110208	AQ HOME Allin1 Gen 2	263.4207
	A2118150101	AQ Master wired x1 Ms	0.8741



Result  
Grid

```

1  /*Generate a report which contains the top 5 customers who received an average
2  high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market.The final output
3  contains these fields,customer_code, customer, average_discount_percentage*/
4
5  •  SELECT
6      c.customer_code,
7      c.customer,
8      ROUND(AVG(pre_invoice_discount_pct)*100,2) as avg_pre_invoice_discount_pct
9  FROM fact_pre_invoice_deductions pid
10 JOIN dim_customer c
11 ON pid.customer_code = c.customer_code
12 WHERE pid.fiscal_year = 2021 AND c.market = "India"
13 GROUP BY c.customer_code,c.customer
14 ORDER BY avg_pre_invoice_discount_pct DESC
15 LIMIT 5;
16

```

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

	customer_code	customer	avg_pre_invoice_discount_pct
	90002009	Flipkart	30.83
	90002006	Viveks	30.38
	90002003	Ezone	30.28
	90002002	Croma	30.25
	90002016	Amazon	29.33



Result  
Grid



Form  
Editor

```

1  /*Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month.
2  This analysis helps to get an idea of low and high-performing months and take strategic decisions.
3  The final report contains these columns: Month,Year,Gross sales Amount*/
4
5  •  SELECT MONTHNAME(s.date) as month_nam,s.fiscal_year,
6     ROUND(SUM(s.sold_quantity*g.gross_price),2) as gross_sales
7     FROM fact_sales_monthly s
8     JOIN fact_gross_price g
9     ON s.product_code = g.product_code
10    JOIN dim_customer c
11    ON s.customer_code = c.customer_code
12    WHERE c.customer = "Atliq Exclusive"
13    GROUP BY MONTHNAME(s.date), s.fiscal_year
14    ORDER BY s.fiscal_year;
  
```

	month_nam	fiscal_year	gross_sales
▶	September	2018	2347703.88
	October	2018	2462780.55
	November	2018	3766114.43
	December	2018	2390015.56
	January	2018	2285937.67
	February	2018	1985466.36
	March	2018	2219880.14
	April	2018	1392024.51
	May	2018	2310946.52



```

1  /*In which quarter of 2020, got the maximum total_sold_quantity? The final output contains these fields
2  sorted by the total_sold_quantity, Quarter, total_sold_quantity*/
3
4  •  SELECT
5  CASE
6    WHEN MONTH(date) IN (9,10,11) THEN "Q1"
7    WHEN MONTH(date) IN (12,1,2) THEN "Q2"
8    WHEN MONTH(date) IN (3,4,5) THEN "Q3"
9    ELSE "Q4"
10  END AS quarters,
11  SUM(sold_quantity) as total_sold_quantity
12  FROM fact_sales_monthly
13  WHERE fiscal_year = 2020
14  GROUP BY quarters
15  ORDER BY total_sold_quantity DESC
16
17

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	quarters	total_sold_quantity
▶	Q1	7005619
	Q2	6649642
	Q4	5042541
	Q3	2075087



Result Grid



Form Editor



```

1  /*Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution
2  The final output contains these fields, channel, gross_sales_mln, percentage*/
3
4  • WITH cte1 AS
5  (SELECT c.channel,
6     ROUND(SUM(s.sold_quantity*g.gross_price)/1000000,2) as gross_sales_mln
7     FROM fact_sales_monthly s
8     JOIN fact_gross_price g
9     ON s.product_code = g.product_code AND s.fiscal_year = g.fiscal_year
10    JOIN dim_customer c
11    ON s.customer_code = c.customer_code
12    WHERE s.fiscal_year = 2021
13    GROUP BY c.channel
14    ORDER BY gross_sales_mln DESC)
15  SELECT *,
16     ROUND((gross_sales_mln)/(SELECT SUM(gross_sales_mln) FROM cte1)*100,2) as pct
17  FROM cte1

```

	channel	gross_sales_mln	pct
▶	Retailer	1219.08	73.23
	Direct	257.53	15.47
	Distributor	188.03	11.30

```

1  /*Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021?
2  The final output contains these fields,division, product_code, product, total_sold_quantity
3  rank_order*/
4
5  • WITH cte1 AS
6  (SELECT p.division,p.product_code,p.product,SUM(s.sold_quantity) as total_qty,
7   RANK() OVER(PARTITION BY p.division ORDER BY SUM(s.sold_quantity) DESC) as rnk
8   FROM fact_sales_monthly s
9   JOIN dim_product p
10  ON s.product_code = p.product_code
11  WHERE s.fiscal_year = 2021
12  GROUP BY p.division,p.product,p.product_code)
13  SELECT * FROM cte1 WHERE rnk IN (1,2,3)
14  ORDER BY division,rnk
15

```

	division	product_code	product	total_qty	rnk
▶	N & S	A6720160103	AQ Pen Drive 2 IN 1	701373	1
	N & S	A6818160202	AQ Pen Drive DRC	688003	2
	N & S	A6819160203	AQ Pen Drive DRC	676245	3
	P & A	A2319150302	AQ Gamers Ms	428498	1
	P & A	A2520150501	AQ Maxima Ms	419865	2
	P & A	A2520150504	AQ Maxima Ms	419471	3
	PC	A4218110202	AQ Digit	17434	1
	PC	A4319110306	AQ Velocity	17280	2
	PC	A4218110208	AQ Digit	17275	3