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## 1. List of Markets for "Atliq Exclusive" in the APAC Region
""sql
SELECT DISTINCT
  market
FROM
  dim customer
WHERE
  customer = 'Atliq Exclusive'
    AND region = 'APAC';
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## 2. Percentage Increase in Unique Products (2021 vs. 2020)
"isql
WITH a AS (
  SELECT COUNT(DISTINCT product_code) AS products_2020
  FROM fact_sales_monthly
  WHERE fiscal_year = 2020
),
bAS(
  SELECT COUNT(DISTINCT product_code) AS products_2021
  FROM fact_sales_monthly
  WHERE fiscal_year = 2021
SELECT
```

```
a.products_2020,
  b.products_2021,
  ROUND((b.products_2021 - a.products_2020) * 100.0 / a.products_2020, 2) AS
percentage_chg
FROM a, b;
## 3. Unique Product Counts by Segment
```sql
SELECT
 segment, COUNT(DISTINCT product_code) AS product_count
FROM
 dim_product
GROUP BY segment
ORDER BY product_count DESC;
4. Segment with the Most Increase in Unique Products (2021 vs. 2020)
"isql
WITH cte1 AS (
 SELECT
 p.segment,
 COUNT(DISTINCT p.product_code) AS product_count_2020
 FROM dim product p
 JOIN fact_sales_monthly f
 ON p.product_code = f.product_code
 WHERE fiscal_year = 2020
```

```
GROUP BY p.segment
),
cte2 AS (
 SELECT
 p.segment,
 COUNT(DISTINCT p.product_code) AS product_count_2021
 FROM dim_product p
 JOIN fact_sales_monthly f
 ON p.product_code = f.product_code
 WHERE fiscal_year = 2021
 GROUP BY p.segment
)
SELECT
 cte1.segment,
 cte1.product_count_2020,
 cte2.product_count_2021,
 (cte2.product_count_2021 - cte1.product_count_2020) AS difference
FROM cte1, cte2
WHERE cte1.segment = cte2.segment
ORDER BY difference DESC;
5. Products with the Highest and Lowest Manufacturing Costs
```sql
WITH cte1 AS (
  SELECT
    d.product_code,
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d.product,
    ROUND(m.manufacturing_cost, 2) AS manufacturing_cost
  FROM dim_product d
  JOIN fact manufacturing cost m
    ON m.product_code = d.product_code
  WHERE m.manufacturing_cost = (
    SELECT MAX(manufacturing_cost) FROM fact_manufacturing_cost
  )
),
cte2 AS (
  SELECT
    d.product_code,
    d.product,
    ROUND(m.manufacturing_cost, 2) AS manufacturing_cost
  FROM dim_product d
  JOIN fact manufacturing cost m
    ON m.product_code = d.product_code
  WHERE m.manufacturing_cost = (
    SELECT MIN(manufacturing cost) FROM fact manufacturing cost
  )
)
SELECT cte1.product_code,
   cte1.product,
   cte1.manufacturing cost
FROM cte1
UNION
SELECT cte2.product_code,
```

```
cte2.product,
   cte2.manufacturing_cost
FROM cte2;
## 6. Top 5 Customers with Highest Average Pre-Invoice Discounts (2021,
Indian Market)
```sql
SELECT
 d.customer_code,
 d.customer.
 ROUND(AVG(f.pre_invoice_discount_pct) *
 100,
 2)
 AS
average_discount_percentage
FROM dim customer d
JOIN fact_pre_invoice_deductions f
 ON d.customer_code = f.customer_code
WHERE f.fiscal_year = 2021
 AND d.market = 'India'
GROUP BY d.customer code, d.customer
ORDER BY average_discount_percentage DESC
LIMIT 5;
7. Gross Sales Amount for "Atliq Exclusive" by Month
"isql
WITH cte1 AS (
 SELECT
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MONTHNAME(s.date) AS Month,
 s.fiscal_year AS Fiscal_year,
 s.customer_code,
 s.sold_quantity,
 g.gross_price
 FROM fact_sales_monthly s
 JOIN fact_gross_price g
 ON s.product_code = g.product_code
 AND s.fiscal_year = g.fiscal_year
 JOIN dim_customer c
 ON c.customer_code = s.customer_code
 WHERE c.customer = 'Atliq Exclusive'
)
SELECT
 Month,
 Fiscal_year,
 ROUND(SUM(sold_quantity * gross_price)) AS Gross_Sales_Amount
FROM cte1
GROUP BY Month, Fiscal year
ORDER BY Fiscal_year;
8. Quarter of 2020 with Maximum Sold Quantity
```sql
WITH cte1 AS (
  SELECT
    MONTH(date) AS month_no,
```

```
SUM(sold_quantity) AS Total_Sold_Quantity
  FROM fact_sales_monthly
  WHERE fiscal_year = 2020
  GROUP BY MONTH(date)
  ORDER BY month_no
)
SELECT
  CASE
    WHEN month_no IN (9,10,11) THEN 'Q1'
    WHEN month_no IN (12,1,2) THEN 'Q2'
    WHEN month_no IN (3,4,5) THEN 'Q3'
    WHEN month_no IN (6,7,8) THEN 'Q4'
  END AS quarter,
  SUM(Total_Sold_Quantity) AS sold_qty
FROM cte1
GROUP BY quarter
ORDER BY sold_qty DESC;
## 9. Channel Contribution to Gross Sales (2021)
""sql
WITH cte1 AS (
  SELECT
    c.channel,
           ROUND(SUM(s.sold_quantity * g.gross_price) / 1000000, 2) AS
gross sales min
  FROM fact_sales_monthly s
```

```
JOIN fact_gross_price g
    ON s.product_code = g.product_code
    AND s.fiscal_year = g.fiscal_year
  JOIN dim customer c
    ON c.customer_code = s.customer_code
  WHERE s.fiscal_year = 2021
  GROUP BY c.channel
SELECT
  channel,
  gross sales mln,
    ROUND(gross_sales_mln * 100 / SUM(gross_sales_mln) OVER(), 2) AS
percentage_contribution
FROM cte1
ORDER BY percentage_contribution DESC;
## 10. Top 3 Products by Division with Highest Sold Quantity (2021)
"isql
WITH cte1 AS (
  SELECT
    p.division,
    p.product_code,
    p.product,
    SUM(s.sold_quantity) AS total_sold_quantity
  FROM dim_product p
  JOIN fact_sales_monthly s
```

```
ON p.product_code = s.product_code
  WHERE s.fiscal_year = 2021
  GROUP BY
    p.division,
    p.product,
    p.product_code
  ORDER BY total_sold_quantity DESC
),
cte2 AS (
  SELECT
            DENSE_RANK() OVER (PARTITION BY division ORDER BY
total_sold_quantity DESC) AS rank_order
  FROM cte1
)
SELECT *
FROM cte2
WHERE rank_order <= 3;
```