## **SQL** queries

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Q1. Provide the list of markets in which customer "Atliq Exclusive" operates its
business in the APAC region
SELECT DISTINCT market
FROM dim customer
WHERE customer="Atliq Exclusive" AND region="APAC"
Q2. What is the percentage of unique product increase in 2021vs. 2020?
WITH X AS
(SELECT COUNT(DISTINCT product code) AS unique products 2020
FROM fact sales monthly
WHERE fiscal year= 2020),
Y AS
(SELECT COUNT(DISTINCT product code) AS unique products 2021
FROM fact sales monthly
WHERE fiscal year= 2021)
SELECT X.unique_products_2020, Y.unique_products_2021,
round(((Y.unique_products_2021-X.unique_products_2020)/X.unique_products_2020)*100,2) AS
Percentage_chg
FROM X,Y;
Q3. Provide a report with all the unique product counts for each segment and sort
them in descending order of product counts.
select segment,
count(distinct (product_code)) as product_count
from dim_product
group by segment
order by product count desc
Q4. Which segment had the most increase in unique products in 2021 vs 2020?
with x as ( select p.segment,
count(distinct s.product_code) as product_count_2020 from dim_product p
join fact_sales_monthly s on p.product_code = s.product_code where s.fiscal_year=2020
group by p.segment),
y as (select p.segment,
```

```
count(distinct s.product_code) as product_count_2021 from dim_product p
join fact_sales_monthly s on p.product_code = s.product_code where s.fiscal_year=2021
group by p.segment)
select x.segment , product_count_2020 ,product_count_2021,abs(x.product_count_2020-
y.product_count_2021) as difference
from x
join y
on x.segment=y.segment
order by difference desc
Q5. Get the products that have the highest and lowest manufacturing costs.
select m.product_code, p.product, m.manufacturing_cost
from fact_manufacturing_cost m
join dim_product p
using (product_code)
where m.manufacturing_cost =
(select max(manufacturing_cost)
from fact_manufacturing_cost)
or m.manufacturing_cost = (select min(manufacturing_cost)
from fact_manufacturing_cost)
order by m.manufacturing_cost desc;
Q6. Generate a report which contains the top 5 customers who received an average
high pre invoice deductions
pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market.
select i.customer_code, c.customer, round(avg(i.pre_invoice_discount_pct)*100,2) as avg_dis_pct
from fact_pre_invoice_deduc⊖ons i
join dim_customer c
using (customer_code)
where fiscal_year =2021 and c.market="india"
group by i.customer code, c.customer
order by avg_dis_pct desc limit 5;
```

```
Exclusive" for each
month.
select monthname(s.date) as month,s.fiscal_year,
round(sum(g.gross_price*sold_quantity),2)
as gross_sales_amt
from fact_sales_monthly s
join dim_customer c
using(customer_code)
join fact_gross_price g
using(product_code)
where customer="atliq exclusive"
group by monthname(s.date) ,s.fiscal_year
order by fiscal_year;
Q8. In which quarter of 2020, got the maximum total sold quan ty?
SELECT
CASE
WHEN month(date) in (9,10,11) then 'Q1'
WHEN month(date) in (12,01,02) then 'Q2'
WHEN month(date) in (03,04,05) then 'Q3'
ELSE 'Q4'
END AS Quarters,
SUM(sold_quanOty) AS total_sold_qty
FROM fact_sales_monthly
WHERE fiscal_year = 2020
GROUP BY Quarters
ORDER BY total_sold_qty desc;
Q9. Which channel helped to bring more gross sales in the fiscal year 2021 and the
percentage of
contribution?
with x as (select c.channel,
round(sum(g.gross_price*s.sold_quan\text{\text{\text{ty}}}/100000,2) as gross_sales_mln
```

Q7.Get the complete report of the Gross sales amount for the customer "Atliq

```
from fact_sales_monthly s
join dim_customer c
using(customer_code)
join fact_gross_price g
using(product_code)
where s.fiscal_year=2021
group by c.channel)
select channel, gross_sales_mln,
round((gross_sales_mln/(select sum(gross_sales_mln) from x))*100,2)
as pct from x
order by gross_sales_mln desc;
Q10. 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
WITH x AS
(
SELECT P.division, S.product_code, P.product, SUM(S.sold_quan\text{\text{\text{o}}}ty) AS Total_sold_quan\text{\text{\text{\text{o}}}ty,
RANK() OVER(PARTITION BY P.division ORDER BY SUM(S.sold_quan\text{\text{O}}ty) DESC) AS 'Rank_Order'
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, S.product_code, P.product)
SELECT * FROM x
WHERE Rank Order IN (1,2,3)
ORDER BY division, Rank Order;
```