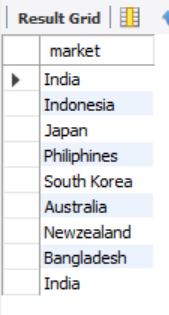
1. Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region.

SELECT market FROM

gdb023.dim\_customer

where customer='Atliq Exclusive' and region='APAC';



1. 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

with unique\_products as(

Select

count(distinct case when fiscal\_year=2020 then product\_code end) as unique\_products\_2020,

count(distinct case when fiscal\_year=2021 then product\_code end) as unique\_products\_2021

from fact\_sales\_monthly)

select \*,

ROUND((unique\_products\_2021-unique\_products\_2020)\*100 / unique\_products\_2020,2) as per\_diff

from unique\_products;



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

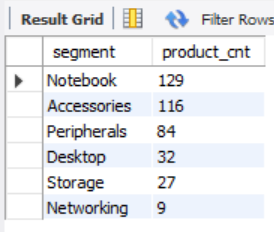
segment product\_count

SELECT segment, COUNT(Distinct product\_code)as product\_cnt

FROM gdb023.dim\_product

group by segment

order by product\_cnt DESC ;



1. 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

WITH percentage\_change as(

Select

d.segment,

count(distinct case when f.fiscal\_year=2020 then d.product\_code end) as product\_count\_2020,

count(distinct case when f.fiscal\_year=2021 then d.product\_code end) as product\_count\_2021

from fact\_sales\_monthly f

join dim\_product d

on f.product\_code=d.product\_code

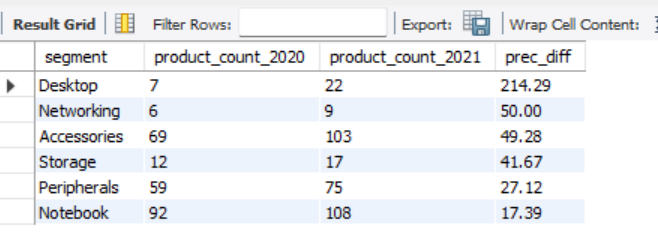
group by d.segment)

select \*,

round((product\_count\_2021-product\_count\_2020)\*100/product\_count\_2020,2) as prec\_diff

from percentage\_change

order by prec\_diff desc;



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

product\_code

product

manufacturing\_cost

SELECT

fm.product\_code,product, manufacturing\_cost

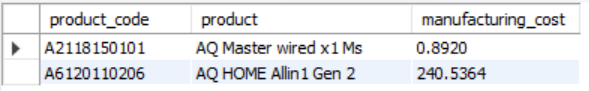
FROM fact\_manufacturing\_cost as fm

join dim\_product as dm

on dm.product\_code= fm.product\_code

where manufacturing\_cost=(select min(manufacturing\_cost) from fact\_manufacturing\_cost)

or manufacturing\_cost=(select max(manufacturing\_cost) from fact\_manufacturing\_cost);



1. 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. The final output contains these fields,

customer\_code

customer

average\_discount\_percentage.

SELECT

f.customer\_code,

d.customer,

f.pre\_invoice\_discount\_pct as average\_discount\_percentage

FROM

fact\_pre\_invoice\_deductions AS f

JOIN

dim\_customer AS d ON d.customer\_code = f.customer\_code

WHERE

f.fiscal\_year = 2021

AND market = 'INdia'

AND f.pre\_invoice\_discount\_pct > (SELECT

AVG(pre\_invoice\_discount\_pct)

FROM fact\_pre\_invoice\_deductions)

ORDER BY f.pre\_invoice\_discount\_pct DESC

LIMIT 5;

