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adhoc Requests:
operates its business in the APAC region.*/
SELECT distinct market
from dim customer
WHERE customer="Atliq Exclusive"
and region="APAC";
2020? The final output contains these fields,
-- # unique products 2020
-- # percentage chg
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)*100/x.unique pro
ducts 2020),2) as percentage chg
FROM x, y
output contains 2 fields,
SELECT segment,
        count(distinct(product code)) as product count
from dim product
group by segment
ORDER BY product count desc;
products in 2021 vs 2020? The final output contains these fields,
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-- # product count 2021
WITH x as(
SELECT p.segment,count(distinct(s.product code)) as products count 2020
from fact sales monthly s
join dim product p 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
products count 2021
from fact sales monthly s
join dim product p on p.product code=s.product code
WHERE s.fiscal year=2021
group by p.segment)
select x.segment, products count 2020, products count 2021,
       abs(y.products count 2021-x.products count 2020) as difference
FROM x, y ;
-- # 5. Get the products that have the highest and lowest manufacturing
SELECT p.product code,
      p.product,
      m.manufacturing cost
from dim product p
join fact manufacturing cost m
    on p.product_code=m.product_code
received an average high pre invoice discount pct for the fiscal year
2021 and in the Indian market. The final output contains these fields,
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select c.customer code,
      c.customer,
       avg(i.pre invoice discount pct) as average discount percentage
from fact pre invoice deductions i
join dim customer c
using (customer code)
WHERE i.pre_invoice_discount_pct>(select avg(pre_invoice_discount_pct)
from fact pre invoice deductions) and
    i.fiscal year=2021 and
    c.market="India"
group by c.customer code,
        c.customer
order by average discount percentage desc
LIMIT 5;
-- # 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:
select
     monthname(s.date) as month,
     s.fiscal year ,
      sum(round(g.gross price*s.sold quantity,2)) as
Gross price Amount
from fact gross price g
join fact_sales_monthly s
    on s.product code=g.product code
join dim customer c
    on c.customer code=s.customer code
where customer="Atliq Exclusive"
group by month, s.fiscal year;
The final output contains these fields sorted by the
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select
        when month(date) in (12,1,2) then "Q2"
        when month(date) in (3,4,5) then "Q3"
    sum(sold_quantity) as total_sold_quantity
from fact sales monthly
where fiscal year=2020
group by Quarter
order by total sold quantity desc;
-- # 9. Which channel helped to bring more gross sales in the fiscal
year 2021 and the percentage of contribution? The final output contains
with x as(
select
    c.channel,
     round((sum(s.sold quantity*g.gross price)/1000000),2) as
gross sales mln
from dim customer c
join fact sales monthly s
    on c.customer code=s.customer code
join fact gross price g
    on g.product code=s.product 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
from x;
-- # 10. Get the Top 3 products in each division that have a high
these
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```
-- # codebasics.io
-- # product
-- # total sold quantity
-- # rank_order
with x as(
select
p.division ,
p.product_code,
p.product,
sum(s.sold_quantity) as total_sold_quantity,
rank() over(partition by p.division order by sum(s.sold quantity) desc)
as rank_order
from dim_product p
join fact_sales_monthly s
using (product code)
where fiscal_year=2021
group by p.division,p.product_code,p.product)
```