Question 1: How many unique customers are in the city of 'Surat'?

Select distinct count(*) from dim_customers where city = "Surat"

Question 2: What are the minimum and maximum order quantities for each product?

Select f.product_id,p.product_name, max(order_qty) as MAX, min(order_qty) as MIN from fact_order_lines f join dim_products p on f.product_id=p.product_id group by product_id

Question 3: Generate a report with month_name and number of unfullfilled_orders(i.e order_qty - delivery_qty) in that respective month.

select monthname(order_placement_date) as month_name, sum((order_qty - delivery_qty)) as unfulfilled_orders from fact_order_lines group by month_name having unfulfilled_orders >0 Question 4: What is the percentage breakdown of order gty by category? The final output includes the following fields:

select category,total_count*100/sum(total_count) over() as perc from cte1

category

group by p.category)

- order qty pct.

with cte1 as (Select p.category, sum(order_qty) as total_count from fact_order_lines f join dim_products p

on f.product_id = p.product_id

Question 5: Generate a report that includes the customer ID, customer name, ontime_target_pct, and percentage_category.

The percentage category is divided into four types: 'Above 90' if the ontime_target_pct is greater than 90, 'Above 80' if it is greater than 80, 'Above 70' if it is greater than 70, and 'Less than 70' for all other cases.

```
when ontime_target_pct > 90 then "Above 90"
when ontime_target_pct > 80 then "Above 80"
when ontime_target_pct > 70 then "Above 70"
else "Less than 70"
end as target_badge from dim_targets_orders t
join dim_customers c
on c.customer_id = t.customer_id)
```

with cte1 as (Select c.customer id,c.customer name, ontime target pct,

Select count(*) from cte1 where target_badge = "Above 90" Question 6: Generate a report that lists all the product categories, along with the product names and total count of products in each category.

The output should have three columns: category, products, and product_count.

```
SELECT
category,
GROUP_CONCAT(product_name) AS products,
COUNT(product_name) AS product_count
FROM
dim_products
GROUP BY
category;
```

Question 7: What are the top 3 most demanded products in the 'Dairy' category, and their respective order quantity in millions?

The final output includes the following fields:

- product name
- order_qty_mln.

limit 3

```
select f.product_id,p.product_name, round(sum(order_qty)/1000000, 2) as total_orders_in_mln from fact_order_lines f
join dim_products p
on f.product_id = p.product_id
where category = "Dairy"
group by product_id
order by total_orders_in_mln desc
```

on f.customer id = c.customer id

group by c.customer name

```
select c.customer_name,

100*count(On_time_In_Full)/(select count(On_time_In_Full) from fact_order_lines f
join dim_customers c
on f.customer_id = c.customer_id
where c.customer_name like "%Vijay Stores%"
group by c.customer_name) as otif_perc from fact_order_lines f
join dim_customers c
```

where c.customer name like "%Vijay Stores%" and On time In Full = 1

Question 9: What is the percentage of 'in full' for each product and which product has the highest percentage, based on the data from the 'fact_order_lines' and 'dim_products' tables?

```
WITH product if target AS (
  SELECT
    p.product_name,
    SUM(CASE WHEN f.in full = 1 THEN 1 ELSE 0 END) AS if count, -- Fixed syntax here
    COUNT(f.order id) AS total count
  FROM
    gdb080.fact order lines f
    JOIN gdb080.dim products p ON p.product id = f.product id
  GROUP BY p.product name
cte2 as (
SELECT
  product name,
  ROUND(if count / total count * 100, 2) AS IF percentage -- Fixed ROUND function
FROM
  product_if_target
ORDER BY
  IF percentage DESC)
  Select count(*) from cte2 where if percentage > 67
```