--1

select c.customer\_id,c.cust\_first\_name, c.cust\_last\_name, SUM(o.order\_total)

from DEMO\_CUSTOMERS c

join DEMO\_ORDERS o on c.customer\_id = o.customer\_id

group by c.customer\_id, c.cust\_last\_name, c.cust\_first\_name

order by 4 desc

fetch first 3 rows only;

--2

select c.customer\_id, c.cust\_first\_name, c.cust\_last\_name, count(o.order\_id)

from DEMO\_CUSTOMERS c

join DEMO\_ORDERS o on c.customer\_id = o.customer\_id

group by c.customer\_id, c.cust\_last\_name,c.cust\_first\_name

order by 4 desc

fetch first 3 rows only;

--3

select p.product\_id, p.product\_name, SUM(oi.quantity)

from DEMO\_PRODUCTS p

join DEMO\_ORDER\_ITEMS oi on p.product\_id = oi.product\_id

group by p.product\_id, p.product\_name

order by 3 desc

fetch first 3 rows only;

--4

select c.cust\_last\_name, p.product\_name, SUM(oi.quantity)

from DEMO\_CUSTOMERS c

join DEMO\_ORDERS o on c.customer\_id = o.customer\_id

join DEMO\_ORDER\_ITEMS oi on o.order\_id = oi.order\_id

join DEMO\_PRODUCTS p on oi.product\_id = p.product\_id

group by c.cust\_last\_name, p.product\_name;

--5

select cust\_last\_name,

max(case when product\_name = 'Product1' then total\_quantity else 0 end) as Product1,

max(case when product\_name = 'Product2' then total\_quantity else 0 end) as Product2,

max(case when product\_name = 'Product3' then total\_quantity else 0 end) as Product3

from (

select c.cust\_last\_name, p.product\_name, sum(oi.quantity) as total\_quantity

from DEMO\_CUSTOMERS c

join DEMO\_ORDERS o on c.customer\_id = o.customer\_id

join DEMO\_ORDER\_ITEMS oi on o.order\_id = oi.order\_id

join DEMO\_PRODUCTS p on oi.product\_id = p.product\_id

group by c.cust\_last\_name, p.product\_name

)

group by cust\_last\_name;

--6

select EXTRACT(year from o.order\_timestamp) as order\_year, count(o.order\_id) as order\_count

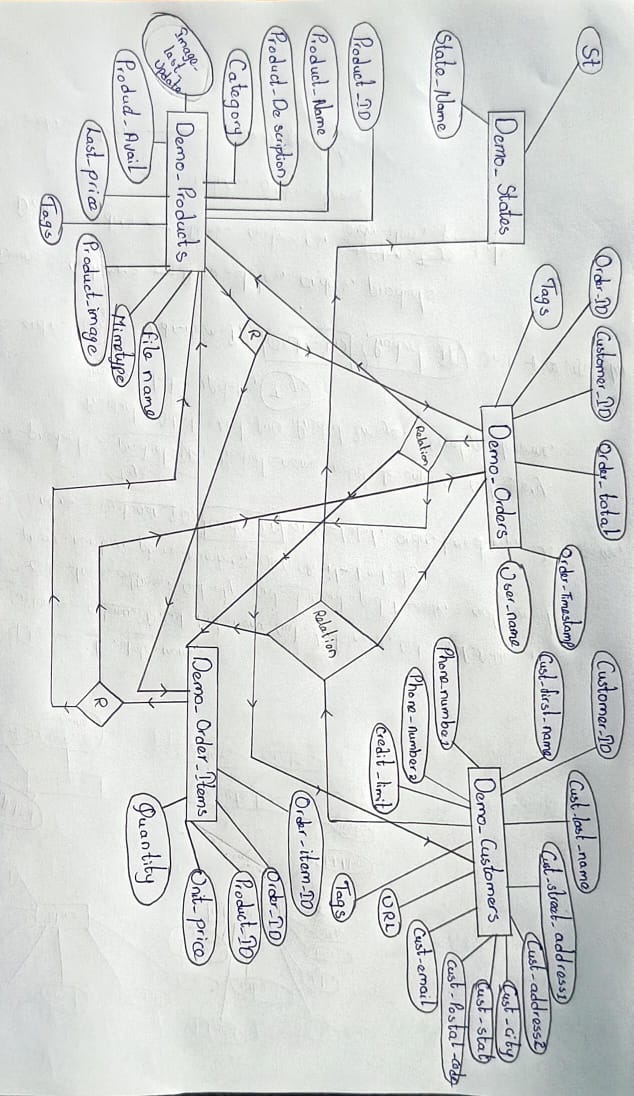
from DEMO\_ORDERS o

group by EXTRACT(year from o.order\_timestamp)

order by order\_count desc

fetch first 1 rows only;

--7



--8

select p.category, SUM(oi.quantity) as total\_quantity

from DEMO\_PRODUCTS p

join DEMO\_ORDER\_ITEMS oi on p.product\_id = oi.product\_id

group by p.category

order by total\_quantity desc

fetch first 1 rows only;

--9

select p.category, SUM(oi.quantity) as total\_quantity

from DEMO\_PRODUCTS p

join DEMO\_ORDER\_ITEMS oi on p.product\_id = oi.product\_id

group by p.category

order by total\_quantity desc

offset 1 rows fetch first 1 row only;

--10

select c.cust\_last\_name, p.product\_name, SUM(oi.quantity) as total\_quantity

from DEMO\_CUSTOMERS c

join DEMO\_ORDERS o on c.customer\_id = o.customer\_id

join DEMO\_ORDER\_ITEMS oi on o.order\_id = oi.order\_id

join DEMO\_PRODUCTS p on oi.product\_id = p.product\_id

group by rollup (c.cust\_last\_name, p.product\_name);