

Business Case Solving Cochin Traders

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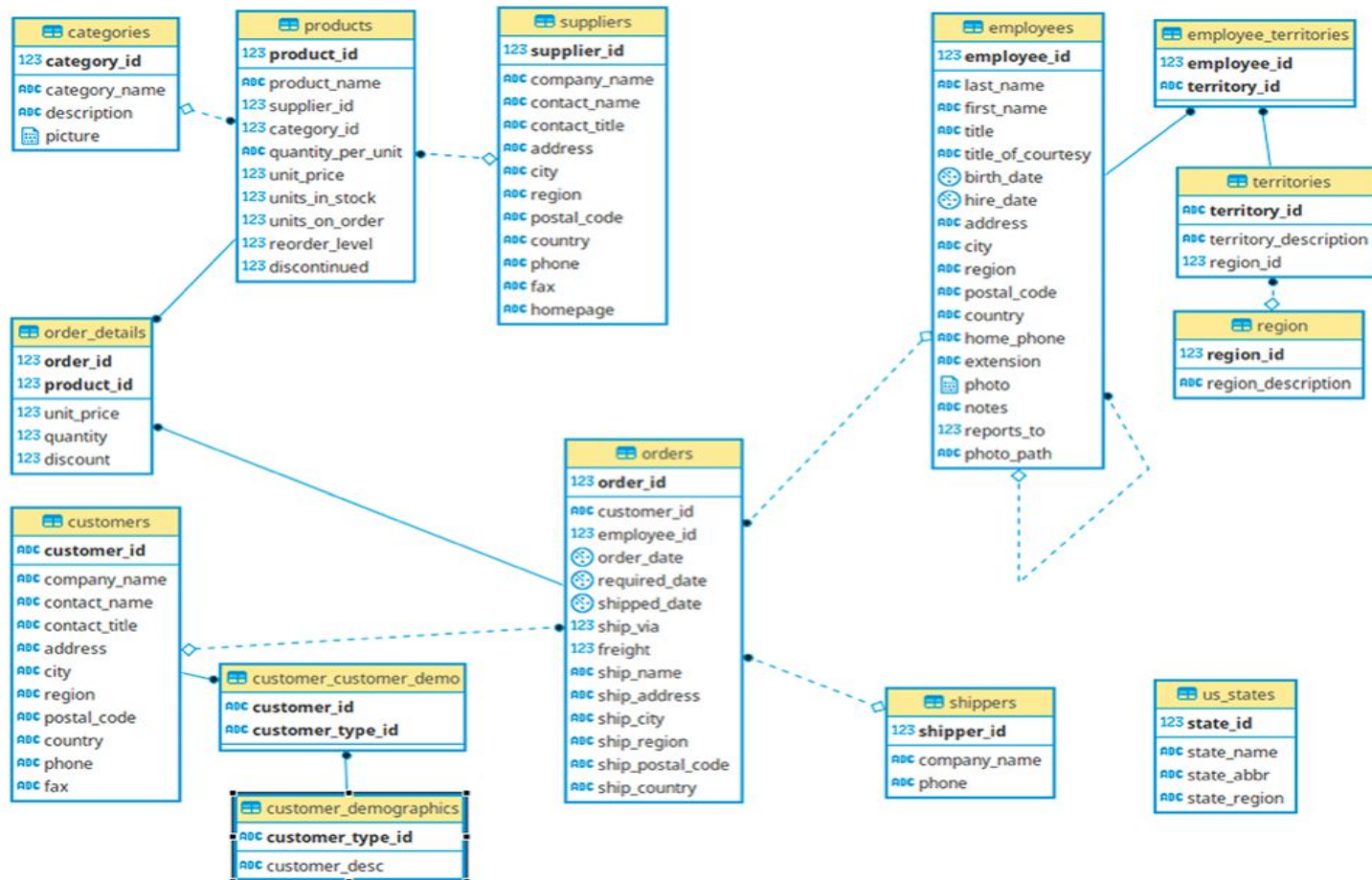
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Tables to be Downloaded

1. Customers
2. Suppliers
3. Employees
4. Products
5. Shippers
6. Orders
7. Order_Details

Schema



Ques. Fetch the full name and hiring date of all Employees who work as Sales Representatives.

```
select concat(firstname, '  
' ,lastname) as fullname,hiredate  
from Cochin_traders.employees  
where title='Sales  
Representative'
```

Row	fullname ▼	hiredate ▼
1	Michael Suyama	1993-10-17
2	Robert King	1994-01-02
3	Anne Dodsworth	1994-11-15
4	Nancy Davolio	1992-05-01
5	Janet Leverling	1992-04-01
6	Margaret Peacock	1993-05-03

Ques. Which of the products in our inventory need to be reordered?

Note: For now, just use the fields UnitsInStock and ReorderLevel, where UnitsInStock is less than the ReorderLevel, ignoring the fields UnitsOnOrder and Discontinued.

```
select distinct productid,  
productname from  
Cochin_traders.products  
where  
unitsinstock<reorderlevel
```

Row	productid ▼	productname ▼
1	21	Sir Rodney's Scones
2	74	Longlife Tofu
3	49	Maxilaku
4	68	Scottish Longbreads
5	30	Nord-Ost Matjeshering

Ques. Find and display the details of customers who have placed more than 5 orders.

```
select c.customerid, c.contactname from  
Cochin_traders.orders o  
inner join Cochin_traders.customers c  
on c.customerid=o.customerid  
group by c.customerid,c.contactname  
having count(orderid)>5
```

Row	customerid ▼	contactname ▼
1	AROUT	Thomas Hardy
2	BSBEV	Victoria Ashworth
3	EASTC	Ann Devon
4	SEVES	Hari Kumar
5	ISLAT	Helen Bennett

Ques: An employee of ours (Margaret Peacock, EmployeeID 4) has the record of completing most orders. However, there are some customers who've never placed an order with her. Show such customers.

```
select distinct customerid from  
Cochin_traders.orders  
where customerid not in (select  
customerid from  
Cochin_traders.orders where  
employeeid=4 )
```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	customerid	contactname		
1	CONSH	Elizabeth Brown		
2	NORTS	Simon Crowther		
3	SEVES	Hari Kumar		
4	DUMON	Janine Labrune		
5	FRANR	Carine Schmitt		

Ques. Retrieve the top 5 best-selling products on the basis of the quantity ordered.

```
select productid, sum(quantity)
as total_quantity
from
Cochin_traders.orders_details
group by productid order by
total_quantity desc limit 5
```

JOB INFORMATION		RESULTS	JSON	EXE
Row	productid	total_quantity		
1	60	1577		
2	59	1496		
3	31	1397		
4	56	1263		
5	16	1158		

Ques. Analyze the monthly order count for the year 1997.

```
select extract(month from
orderid)as mon ,count(distinct
orderid)as total_orders from
Cochin_traders.orders
where extract(year from
orderid)=1997
group by mon order by mon
```

Row	mon ▼	total_orders ▼
1	1	33
2	2	29
3	3	30
4	4	31
5	5	32

Ques: Calculate the difference in sales revenue for each month compared to the previous month.

```
select mon, revenue-lag(revenue,1)
over(order by mon) as rev_diff from
(select extract(month from
o.orderdate) as mon,
sum(od.quantity*od.unitprice) as
revenue from Cochin_traders.orders o
join
Cochin_traders.orders_details od on
o.orderid=od.orderid
group by mon
order by mon)
order by mon
```

Row	mon	rev_diff	
1	1	null	
2	2	-21778.3700000...	
3	3	4036.199999999...	
4	4	40524.600000000...	
5	5	-113607.590000...	

Ques: Calculate the percentage of total sales revenue for each product.

```
with CTE as (  
    select  
    productid, sum(unitprice*quantity) as  
    revenue from Cochin_traders.orders_details  
    group by productid  
)  
select productid, (revenue/sum(revenue)  
over())*100 from CTE
```

Row	productid	f0_
1	7	1.658522465422...
2	52	0.249826759192...
3	28	1.983493640805...
4	45	0.349992243026...
5	10	1.634616234373...