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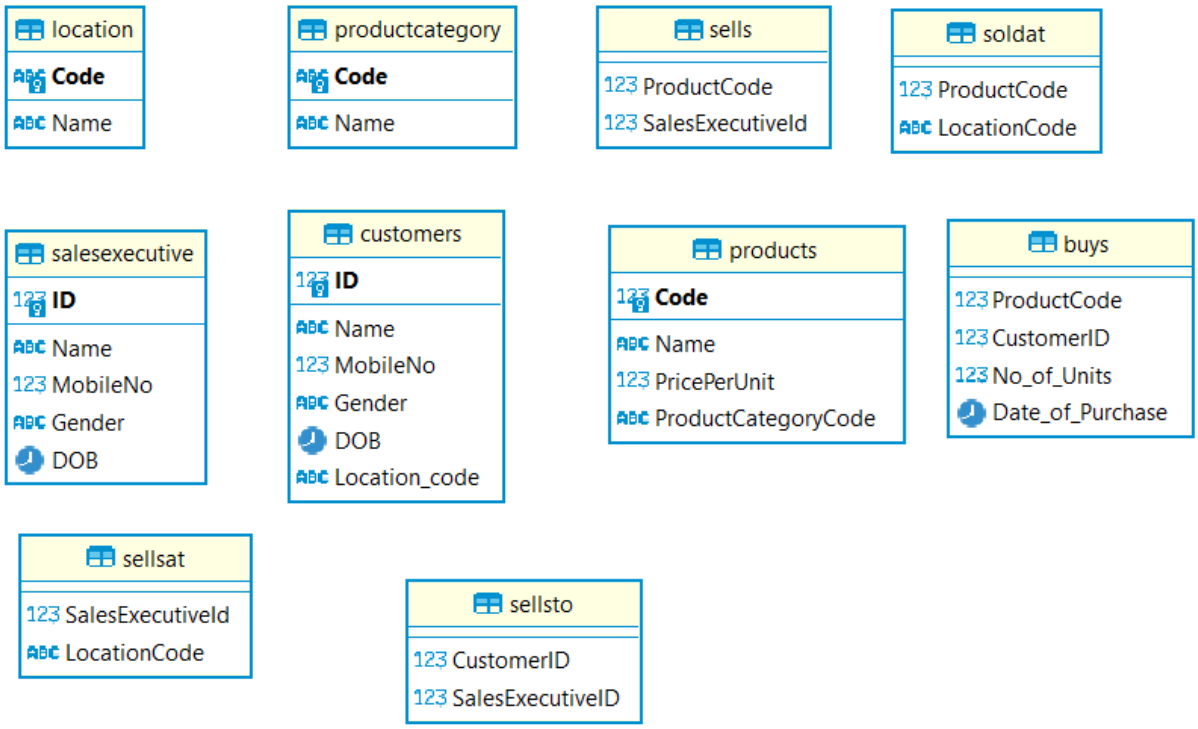
Ques 1 : Create tables



Schema of all the tables that I've created

I have created a total of 10 tables based on the ER diagram, but I have attached the records of just 4 tables which are being used in ques 2 and 3.

salesexecutive 1 | buys 2

select * from buys b | Enter a SQL expression to filter results (use Ctrl+Space)

	ProductCode	CustomerID	No_of_Units	Date_of_Purchase
1	1	1	4	2021-01-22
2	1	1	4	2021-02-01
3	2	1	8	2021-02-01
4	13	1	2	2021-02-03
5	3	4	6	2021-02-08
6	3	5	4	2021-02-03
7	12	10	4	2021-02-08
8	13	2	4	2021-01-22
9	2	5	6	2021-02-08
10	1	1	4	2021-02-08
11	3	3	3	2021-01-13
12	1	1	4	2021-02-06
13	1	1	4	2021-02-07
14	2	6	6	2021-02-09
15	1	1	4	2021-02-10
16	4	7	8	2021-02-05
17	7	3	9	2021-02-02
18	5	6	4	2021-01-06
19	5	2	8	2021-01-07
20	1	1	2	2021-01-01
21	3	10	4	2021-01-02
22	4	3	1	2021-01-09
23	7	9	2	2021-01-10
24	9	8	8	2021-01-07
25	12	5	20	2021-01-07

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Buys table (25 records) : based on many to many relationship between customer and products

salesexecutive 1 | products 2

select * from products p | Enter a SQL expression to filter results (use Ctrl+Space)

	Code	Name	PricePerUnit	ProductCategoryCode
1	1	Wheat	50	PR01
2	2	Rice	60	PR01
3	3	Oats	30	PR01
4	4	White Bread	25	PR02
5	5	Whole-Wheat Bread	50	PR02
6	6	sesame roll	80	PR03
7	7	cinnamon roll	100	PR03
8	8	hamburger bun	90	PR03
9	9	hot dog bun	60	PR03
10	10	chocolate cake	660	PR04
11	11	coffee cake	800	PR04
12	12	crackers	60	PR05
13	13	biscuits	20	PR05

Products table (added 13 records)

select * from soldat p | Enter a SQL expression to fil

	ProductCode	LocationCode
1	1	BLR
2	2	BLR
3	12	BLR
4	5	BLR
5	9	BLR
6	3	MUM
7	2	MUM
8	12	MUM
9	13	MUM
10	8	KP
11	7	KP
12	6	KP
13	4	KP
14	10	DLI
15	12	DLI
16	11	DLI
17	2	DLI
18	12	LKO
19	13	LKO
20	9	LKO
21	10	LKO
22	11	LKO
23	3	LKO
24	4	LKO
25	5	LKO

Sold At table (25 records): Many to Many relation between Product and Location

salesexecutive 2

select * from salesexecutive s | Enter a SQL expression to filter results (use Ctrl+Space)

	ID	Name	MobileNo	Gender	DOB
1	1	Arjun	151,515,511	Male	1991-07-16
2	2	Vishwas	986,532,172	Male	1990-05-12
3	3	Rishabh	789,631,453	Male	1987-04-11
4	4	Sonkar	456,987,123	Male	1992-02-08
5	5	Tushar	986,532,147	Male	1996-06-19
6	6	Lakshya	741,852,963	Male	1989-05-28

Sales Executive Table (6 records)

Ques 2: Write a query to retrieve the most sold product per day in a specific location in the last week. You can pick the location of your choice.

```
# Query 2 : DISPLAYING THE MOST SOLD PRODUCT PER DAY IN THE LAST WEEK IN BANGALORE
# LOCATION CODE FOR BANGALORE IS BLR

select prod.Name as Most_Sold_Product, max(No_of_Units) as Number_of_Units,
Date_of_Purchase, LocationCode from products prod
inner join buys b on prod.Code = b.ProductCode
inner join soldat s on b.ProductCode = s.ProductCode
where Date_of_Purchase between '2021-02-01' and '2021-02-07'
and LocationCode = 'BLR' group by Date_of_Purchase ;
```

products(+) 1

select prod.Name as Most_Sold_Product, max(No_of_ | Enter a SQL expression to filter results (use Ctrl+Space)

	Most_Sold_Product	Number_of_Units	Date_of_Purchase	LocationCode
1	Wheat	8	2021-02-01	BLR
2	Wheat	4	2021-02-06	BLR
3	Wheat	4	2021-02-07	BLR

I selected Bangalore as the city to displayed the most sold products per day in the last week.

Query:

```
select prod.Name as Most_Sold_Product, max(No_of_Units) as
Number_of_Units, Date_of_Purchase, LocationCode from products
prod inner join buys b on prod.Code = b.ProductCode
inner join soldat s on b.ProductCode = s.ProductCode
where Date_of_Purchase between '2021-02-01' and '2021-02-07'
and LocationCode = 'BLR' group by Date_of_Purchase ;
```

Ques 3: Write a query to list all the salesperson's details along with the count of products sold by them (if any) till the current date

```
#Query 3 : DISPLAYING THE LIST OF ALL SALESPERSON'S DETAILS ALONG WITH THE COUNT OF PRODUCTS SOLD BY THEM TILL DATE

select salesman.Name, salesman.ID, salesman.MobileNo, salesman.DOB, count(*) as No_of_products_sold from salesexecutive salesman
    inner join sells s on s.SalesExecutiveId = salesman.ID
    inner join buys b on b.ProductCode = s.ProductCode
    group by SalesExecutiveId ;
```

salesexecutive 1 | salesexecutive 2

select salesman.Name, salesman.ID, salesman.Mobil | Enter a SQL expression to filter results (use Ctrl+Space)

	Name	ID	MobileNo	DOB	No_of_products_sold
1	Arjun	1	151,515,511	1991-07-16	16
2	Vishwas	2	986,532,172	1990-05-12	12
3	Rishabh	3	789,631,453	1987-04-11	9
4	Sonkar	4	456,987,123	1992-02-08	15
5	Tushar	5	986,532,147	1996-06-19	15
6	Lakshya	6	741,852,963	1989-05-28	20

Query:

```
select salesman.Name, salesman.ID, salesman.MobileNo,
salesman.DOB, count(*) as No_of_products_sold from
salesexecutive salesman
inner join sells s on s.SalesExecutiveId = salesman.ID
inner join buys b on b.ProductCode = s.ProductCode
group by SalesExecutiveId ;
```