

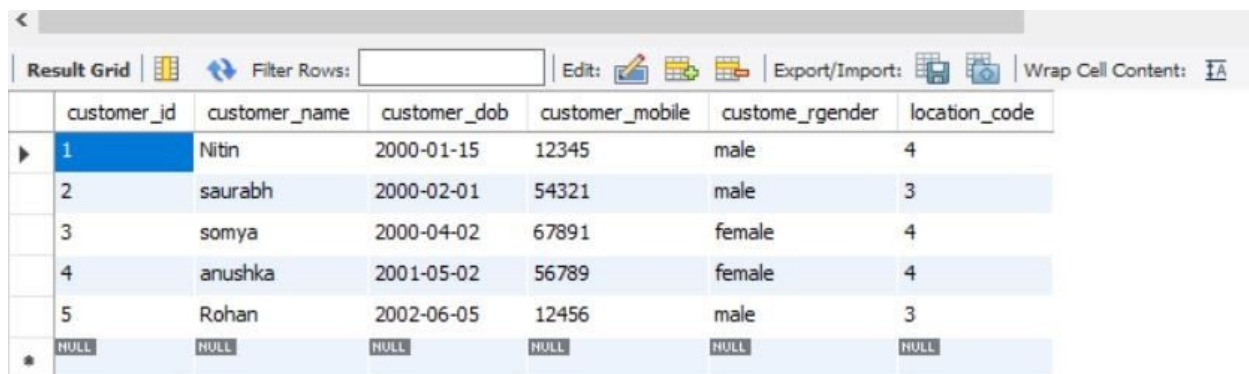
**Spring Au 2021 - February**  
**Sql Concepts & Fundamentals - Afternoon**

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**Git** - <https://github.com/nitinkaushik10/SAU-Feb-Batch-2/>

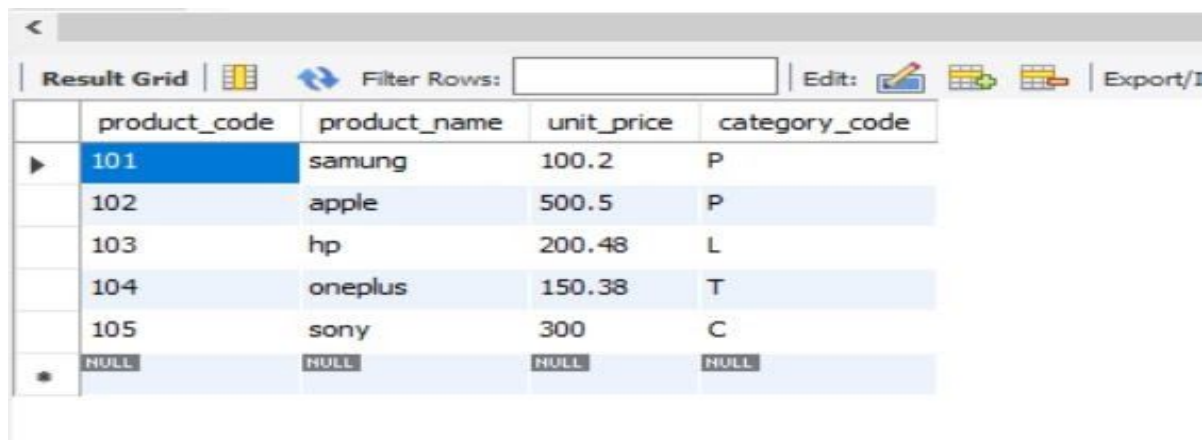
**Ques 1 : Assuming you are ready with ER Model transform it into a Database schema and Create tables**

Customer Table



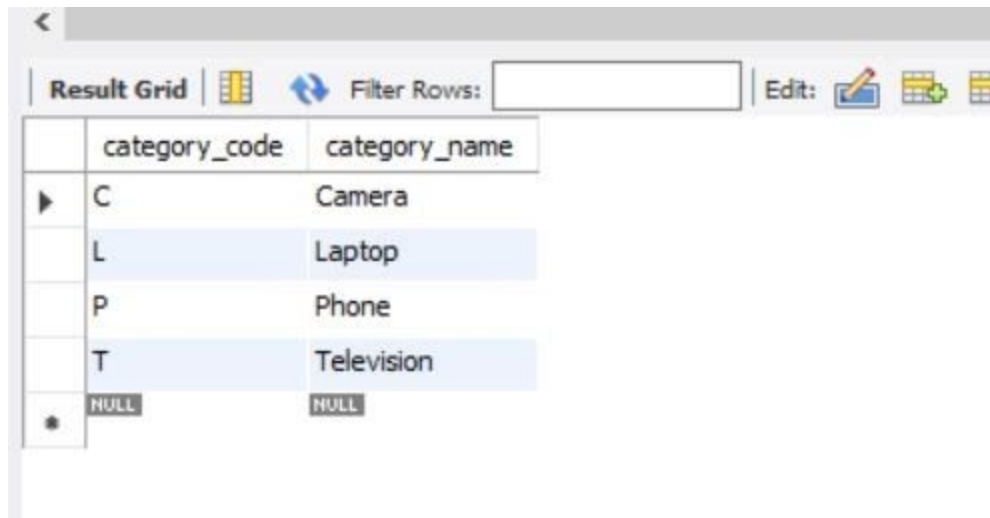
	customer_id	customer_name	customer_dob	customer_mobile	custome_rgender	location_code
▶	1	Nitin	2000-01-15	12345	male	4
	2	saurabh	2000-02-01	54321	male	3
	3	somya	2000-04-02	67891	female	4
	4	anushka	2001-05-02	56789	female	4
	5	Rohan	2002-06-05	12456	male	3
*	NULL	NULL	NULL	NULL	NULL	NULL

Product Table



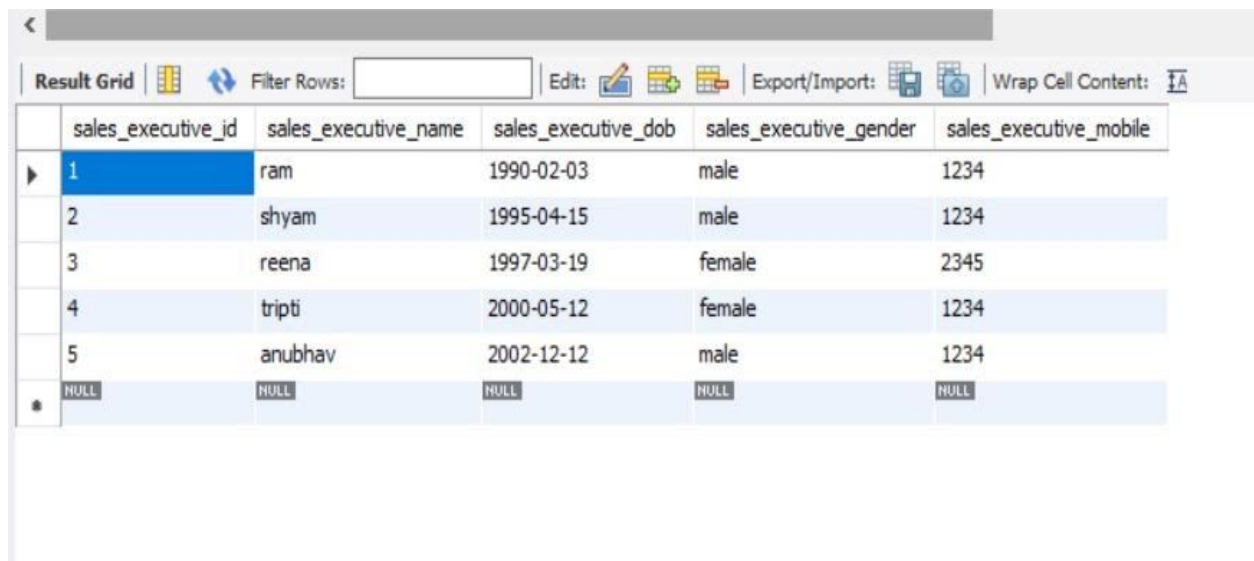
	product_code	product_name	unit_price	category_code
▶	101	samung	100.2	P
	102	apple	500.5	P
	103	hp	200.48	L
	104	oneplus	150.38	T
	105	sony	300	C
*	NULL	NULL	NULL	NULL

## Category Table



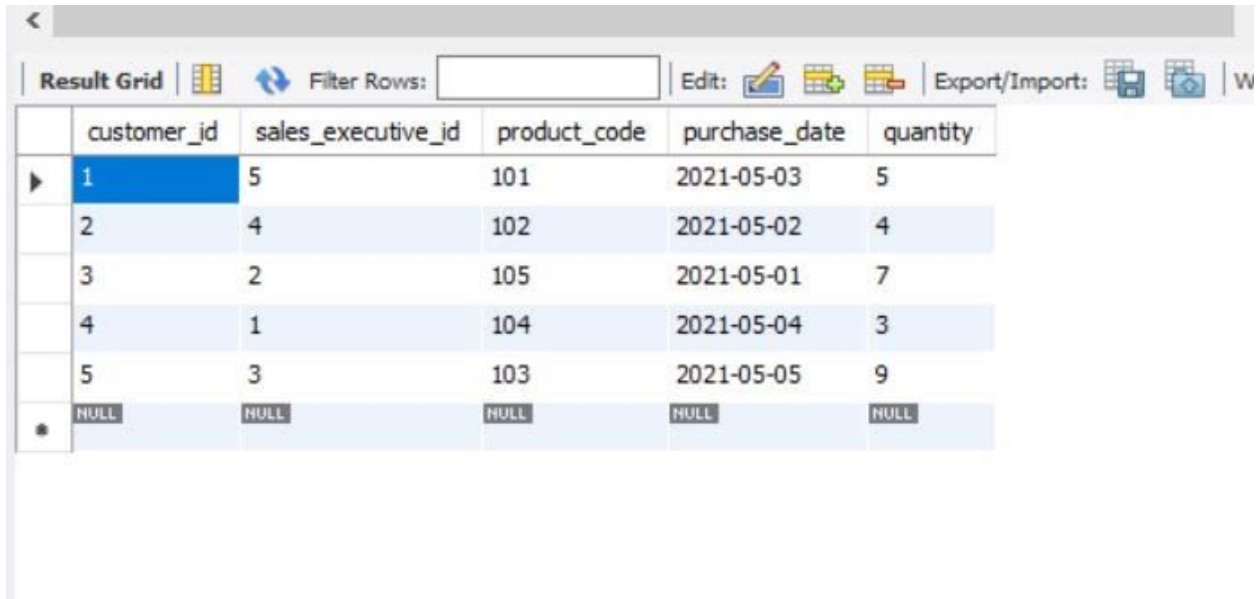
	category_code	category_name
▶	C	Camera
	L	Laptop
	P	Phone
	T	Television
*	NULL	NULL

## Sales executive



	sales_executive_id	sales_executive_name	sales_executive_dob	sales_executive_gender	sales_executive_mobile
▶	1	ram	1990-02-03	male	1234
	2	shyam	1995-04-15	male	1234
	3	reena	1997-03-19	female	2345
	4	tripti	2000-05-12	female	1234
	5	anubhav	2002-12-12	male	1234
*	NULL	NULL	NULL	NULL	NULL

## Product Purchased Table



	customer_id	sales_executive_id	product_code	purchase_date	quantity
▶	1	5	101	2021-05-03	5
	2	4	102	2021-05-02	4
	3	2	105	2021-05-01	7
	4	1	104	2021-05-04	3
	5	3	103	2021-05-05	9
•	NULL	NULL	NULL	NULL	NULL

## 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.

```
use hamen_private;
SELECT p.product_code, p.product_name , pp.purchase_date ,
c.location_code, COUNT(*) as MAX_SELL_PERDAY
from product_purchase pp
join customer c ON pp.customer_id = c.customer_id
Join product p ON p.product_code = pp.product_code
where location_code=4 and pp.purchase_date between '2021-05-01' and
'2021-05-05'
group by p.product_code, p.product_name , pp.purchase_date ;
```

The screenshot shows a SQL IDE with a query editor and a result grid. The query is as follows:

```

1 use hamen_private;
2 SELECT p.product_code, p.product_name , pp.purchase_date , c.location_code, COUNT(*) as MAX_SELL_PERDAY
3 from product_purchase pp
4 join customer c ON pp.customer_id = c.customer_id
5 join product p ON p.product_code = pp.product_code
6 where location_code=4 and pp.purchase_date between '2021-05-01' and '2021-05-05'
7 group by p.product_code, p.product_name , pp.purchase_date ;
8

```

The result grid displays the following data:

product_code	product_name	purchase_date	location_code	MAX_SELL_PERDAY
101	samsung	2021-05-03	4	1
104	oneplus	2021-05-04	4	1
105	sony	2021-05-01	4	1

**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.**

```

use hamen_private;
select s.sales_executive_id , s.sales_executive_name ,
s.sales_executive_dob, s.sales_executive_gender ,
s.sales_executive_mobile , p.purchase_date As Product_Sold_Date,
sum(quantity) as Product_Sold

```

from product\_purchase p right join sales\_executive s  
ON p.sales\_executive\_id= s.sales\_executive\_id  
group by p.quantity order by Product\_Sold desc;

The screenshot shows a database management tool interface. The left sidebar displays a schema tree with tables like 'category', 'customer', 'product', 'product\_purchase', 'sales\_executive', 'Views', 'Stored Procedures', and 'Functions'. The main window shows a SQL query in a text editor:

```
1 use hamen_private;
2 select s.sales_executive_id , s.sales_executive_name , s.sales_executive_dob , s.sales_executive_gender ,
3 s.sales_executive_mobile , p.purchase_date As Product_Sold_Date, sum(quantity) as Product_Sold
4 from product_purchase p right join sales_executive s
5 ON p.sales_executive_id= s.sales_executive_id
6 group by p.quantity order by Product_Sold desc;
```

Below the query editor, the 'Result Grid' displays the following data:

sales_executive_id	sales_executive_name	sales_executive_dob	sales_executive_gender	sales_executive_mobile	Product_Sold_Date	Product_Sold
3	reena	1997-03-19	female	2345	2021-05-05	9
2	shyam	1995-04-15	male	1234	2021-05-01	7
5	anubhav	2002-12-12	male	1234	2021-05-03	5
4	tripti	2000-05-12	female	1234	2021-05-02	4
1	ram	1990-02-03	male	1234	2021-05-04	3

At the bottom, the 'Information' tab shows details for the 'product\_purchase' table:

Table: product\_purchase  
Columns: customer\_id (int(11) PK), sales\_executive\_id (int(11)), product\_code (int(11))

sales_executive_id	sales_executive_name	sales_executive_dob	sales_executive_gender	sales_executive_mobile	Product_Sold_Date	Product_Sold
3	reena	1997-03-19	female	2345	2021-05-05	9
2	shyam	1995-04-15	male	1234	2021-05-01	7
5	anubhav	2002-12-12	male	1234	2021-05-03	5
4	tripti	2000-05-12	female	1234	2021-05-02	4
1	ram	1990-02-03	male	1234	2021-05-04	3