SQL Concepts & Fundamentals

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Q1) Assuming you are ready with ER Model (from Morning session Assignment), transform it into a Database schema. Create tables keeping up good practices and send me the create scripts you've written.

The created tables are shown below:

Category:

category_code	catergory_name
c1	games
c2	movie_dvds
c3	cosmetics
NULL	NULL

Product:

product_code	product_name	unit_price	category_code
21	MarioKart	100	c1
22	Avengers	100	c2
23	Lipliner	200	c3
24	Avatar	300	c2
25	Lipgloss	300	c3
26	Farcry4	500	c1

Customer:

customer_id	customer_name	customer_DOB	customer_gender	customer_mobile	location_code
1	krishnakanth	1999-01-01	m	1234567890	1
2	aadarsh	1999-01-02	m	1234567891	1
3	shravan	1999-01-03	m	1234567892	2
4	keerthi	1999-01-04	m	1234567893	3
5	kevin	1999-01-05	m	1234567894	2
6	naveen	1999-01-06	m	1234567895	4

Sales_executive:

sales_executive_id	sales_executive_name	sales_executive_DOB	sales_executive_gender	sales_executive_mobile
1	james	1991-01-01	m	123456789
2	jeremy	1991-01-02	m	1123456789
3	lexi	1991-01-03	m	223456789
4	david	1991-01-04	m	323456789
5	jimmy	1991-01-05	m	423456789

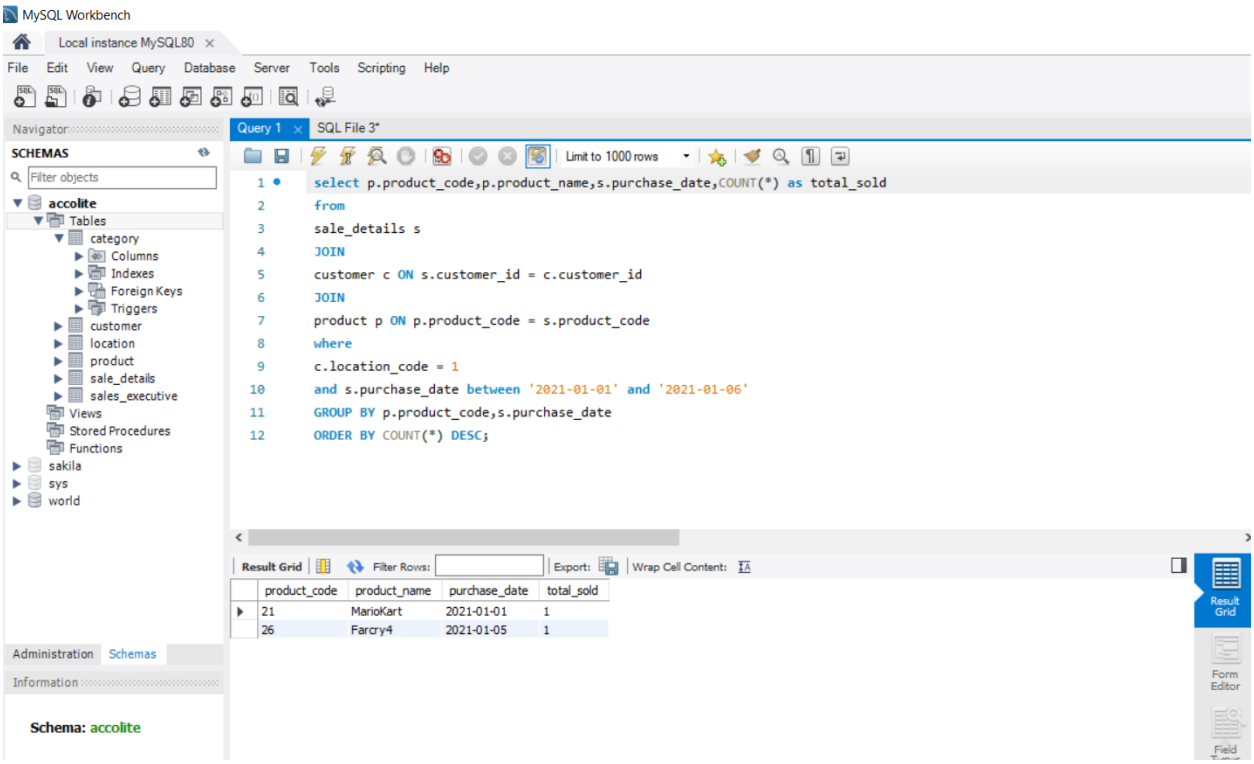
Sale_details:

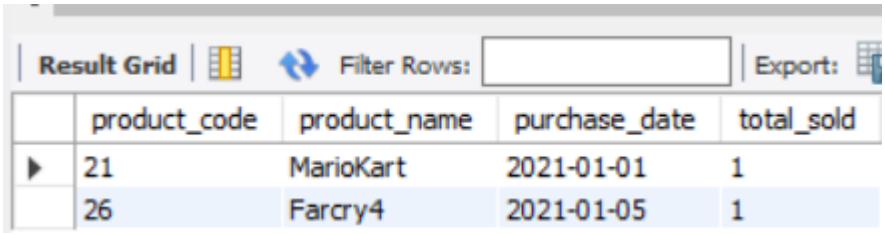
customer_id	sales_executive_id	product_code	purchase_date	quantity
1	2	21	2021-01-01	10
2	5	26	2021-01-05	5
3	1	23	2021-01-02	5
4	4	24	2021-01-03	2
5	3	21	2021-01-04	10
6	5	25	2021-01-06	10

Q2) Write a query to retrieve the most sold product per day in a specific location (take any location) in last week.

Query:

```
select p.product_code,p.product_name,s.purchase_date,COUNT(*) as
total_sold
 from sale_details s
 JOIN  customer c ON s.customer_id = c.customer_id
 JOIN  product p ON p.product_code = s.product_code
 Where  c.location_code = 1
 and s.purchase_date between '2021-01-01' and '2021-01-06'
 GROUP BY p.product_code,s.purchase_date
 ORDER BY COUNT(*) DESC;
```





Q3) Write a query to list all the sales persons details along with the count of products sold by them (if any) till current date.

Query:

```
select
s.sales_executive_id,s1.sales_executive_name,s1.sales_executive_
DOB,s1.sales_executive_gender
,SUM(quantity) as No_of_Products_Sold
from
sale_details as s
INNER JOIN
sales_executive as s1
on s.sales_executive_id = s1.sales_executive_id
GROUP BY s.sales_executive_id
ORDER BY No_of_Products_Sold desc;
```