SQL CONCEPTS AND FUNDAMENTALS

1. 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.

LOCATION:

location_code	loc_name
l1	chennai
l2	kerala
l3	ladak
l4	karnataka
NULL	NULL

CATEGORY:

cat_id	cat_name
c1	beauty
c2	food
c3	home appliances
c4	beverages
NULL	NULL

PRODUCT:

pro_id	pro_name	unit_price	cat_id
p11	rice	200	c1
p12	wheat	100	c1
p13	ragi	100	c1
p21	lipstick	700	c2
p22	powder	890	c2
p23	foundation	890	c2
p31	fridge	25000	c3
p32	home theatre	20000	c3
p41	coke	100	c4
NULL	NULL	NULL	NULL

SALES_EXE:

salesexe_id	saleexe_name	gender	mobile	dob
s1	karthi	male	100	1990-09-09
s2	sam	male	100	1991-09-09
s3	logan	male	100	1991-07-09
s4	ram	male	1009	1992-07-09
s5	rakesh	male	1009	1995-07-09
NULL	NULL	NULL	NULL	NULL

CUSTOMER:

cust_id	cust_name	c_dob	gender	mob	location_code
cus1	mano	2000-01-02	male	9143	l1
cus2	loke	2001-01-02	male	9143	l1
cus3	lokesh	2002-01-02	male	9142	l1
cus4	pavi	2002-03-02	female	9442	l2
cus5	nandy	1999-03-02	female	9442	l3
cus6	sassu	1998-03-02	female	9442	l4
cus7	rek	2000-02-02	male	3423	l1
cus8	rek	1876-02-02	male	3423	l1
cus9	rek	1998-02-02	male	3423	l1
NULL	NULL	NULL	NULL	NULL	NULL

ORDER_DETAILS:

cust_id	pro_id	salesexe_id	date_of_purchase	qty
cus1	p11	s1	2021-07-09	2
cus1	p12	s1	2021-07-09	2
cus2	p12	s1	2021-07-09	4
cus3	p12	s1	2021-01-12	4
cus4	p12	s1	2021-01-12	4
cus5	p23	s1	2021-01-10	6
cus4	p23	s1	2021-01-10	3
cus2	p23	s1	2021-01-09	3
cus9	p23	s1	2021-01-09	3
cus8	p23	s1	2021-01-09	3

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

```
select pro.pro_id,pro.pro_name,ord.date_of_purchase,COUNT(*) as total_sold
 from
 order_details ord
 JOIN
 customer cus ON ord.cust_id = cus.cust_id
 JOIN
 product pro ON pro.pro_id = ord.pro_id
 where
 cus.location_code ="l1"
 and ord.date_of_purchase between '2021-01-09' and '2021-01-12'
 GROUP BY pro.pro_id,ord.date_of_purchase;
```

```sql
select pro.pro_id,pro.pro_name,ord.date_of_purchase,COUNT(*) as
 from
 order_details ord
 JOIN
 customer cus ON ord.cust_id = cus.cust_id
 JOIN
 product pro ON pro.pro_id = ord.pro_id
 where
 cus.location_code ="l1"
 and ord.date_of_purchase between '2021-01-09' and '2021-01-12'
 GROUP BY pro.pro_id,ord.date_of_purchase;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid

pro_id	pro_name	date_of_purchase	total_sold
p12	wheat	2021-01-12	1
p23	foundation	2021-01-09	3

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

```sql
select
ord.salesexe_id,sal1.saleexe_name,sal1.dob,sal1.gender
,SUM(qty) as No_of_Products_Sold
from
order_details as ord
INNER JOIN
sales_exe as sal1
on ord.salesexe_id = sal1.salesexe_id
GROUP BY ord.salesexe_id
ORDER BY No_of_Products_Sold desc;
```

```sql
select
ord.salesexe_id,sal1.saleexe_name,sal1.dob,sal1.gender
,SUM(qty) as No_of_Products_Sold
from
order_details as ord
INNER JOIN
sales_exe as sal1
on ord.salesexe_id = sal1.salesexe_id
GROUP BY ord.salesexe_id
ORDER BY No_of_Products_Sold desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid

salesexe_id	saleexe_name	dob	gender	No_of_Products_Sold
s1	karthi	1990-09-09	male	34