SQL Concepts - Assignment

Maithreyan Kesavan

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.

Provided as .sql files, Generated tabels

Category Table

category_code	category_name
a	food
b	electronics
c	household
NULL	NULL

Product Table

product_code	product_name	unit_price	category_code
101	apple	30	a
102	milk	25	a
103	meat	100	a
201	tv	1000	b
202	laptop	2000	b
203	fridge	1500	b
301	knife	10	c
302	sheet	25	c
303	mop	15	c

Location Table

location_id	location_name
1	chennai
2	banglore
3	delhi
4	hyderabad
5	gurgon
6	mumbai

Customer Table

cust_id	cust_name	cust_dob	cust_gender	cust_location_id
1	aadarsh	1998-01-10	male	1
2	aishwary	1999-09-07	female	2
3	durga	1999-09-09	male	1
4	kalivani	1998-03-17	female	2
5	sharat	1999-03-22	male	3
6	shelva	1999-07-26	male	3
7	thamana	1999-07-26	female	5
8	thilak	1999-03-05	male	6
9	vaishnavi	1999-06-26	female	4
10	yuvraj	1999-03-05	male	3

Sales Executives Table

ex_id	ex_name	ex_dob	ex_gender
1	ashwin	1998-10-10	male
2	arthi	1998-09-07	female
3	guru	1999-09-07	male
4	kaviya	1998-09-17	female
5	sanjay	1999-03-26	male
6	santhosh	1999-05-26	male
7	sankari	1999-07-16	female
8	varshini	1999-03-05	female

Sale Table

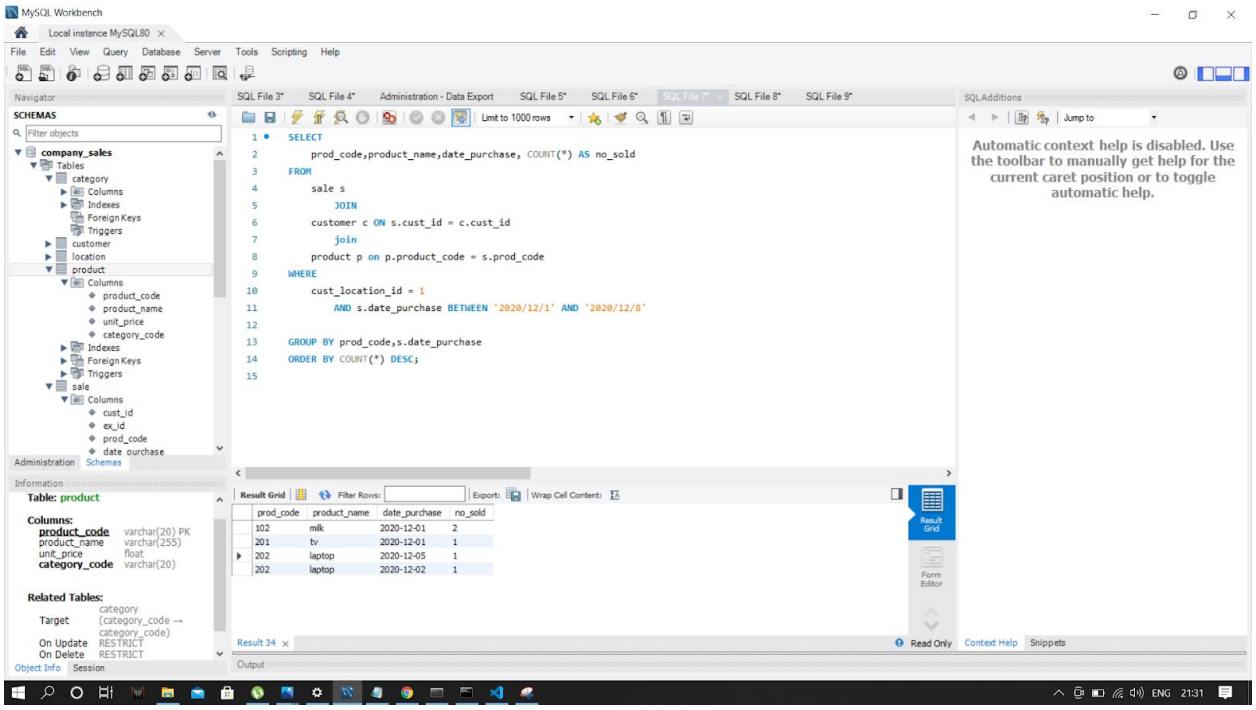
cust_id	ex_id	prod_code	date_purchase	units
1	2	102	2020-12-01	4
3	6	202	2020-12-05	1
3	7	102	2020-12-01	6
3	8	201	2020-12-01	1
3	8	202	2020-12-02	1
4	2	101	2020-12-01	3
5	5	301	2020-12-03	2
6	7	203	2020-12-03	2
6	7	203	2020-12-05	2
9	4	301	2020-12-06	2
10	4	302	2020-12-01	4
NULL	NULL	NULL	NULL	NULL

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

```
SELECT
   prod_code,product_name,date_purchase, COUNT(*) AS no_sold
FROM
   sale s
      JOIN
   customer c ON s.cust_id = c.cust_id
                  join
         product p on p.product_code = s.prod_code
WHERE
   cust_location_id = 1
      AND s.date_purchase BETWEEN '2020/12/1' AND '2020/12/8'

GROUP BY prod_code,s.date_purchase
ORDER BY COUNT(*) DESC;
```

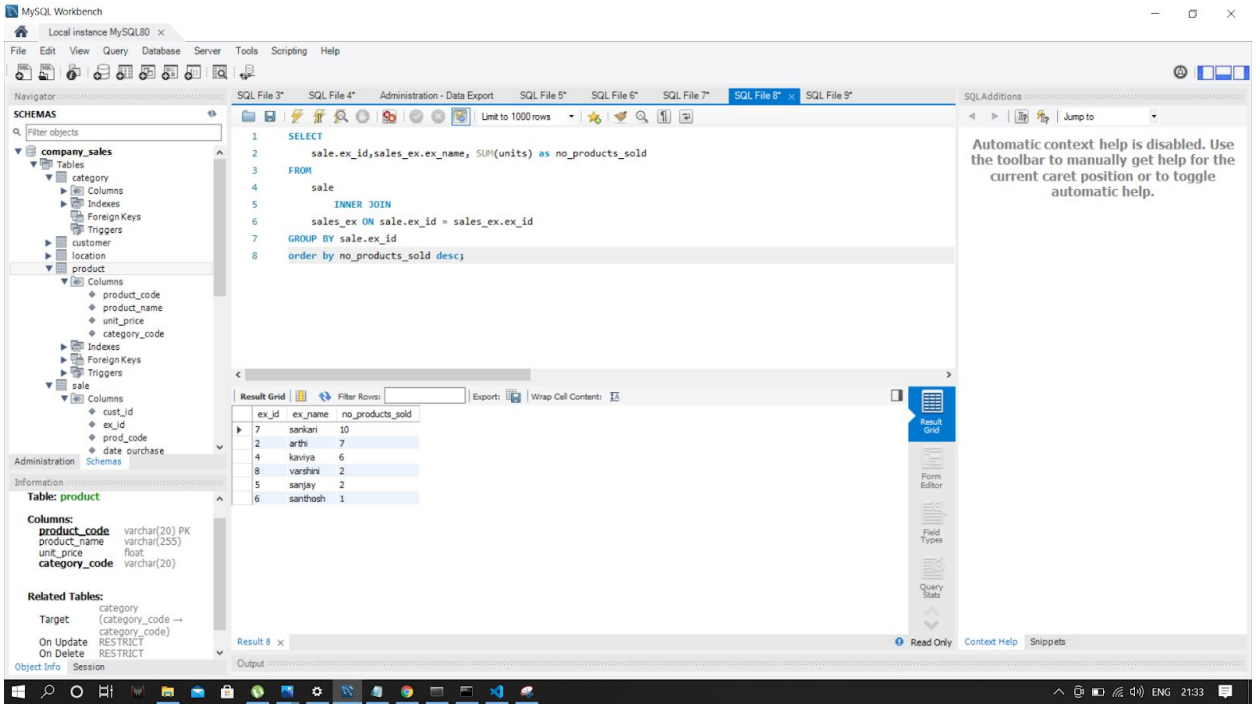
prod_code	product_name	date_purchase	no_sold
102	milk	2020-12-01	2
202	laptop	2020-12-05	1
201	tv	2020-12-01	1
202	laptop	2020-12-02	1



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.

```
SELECT
   sale.ex_id,sales_ex.ex_name, SUM(units) as no_products_sold
FROM
   sale
      INNER JOIN
   sales_ex ON sale.ex_id = sales_ex.ex_id
GROUP BY sale.ex_id
order by no_products_sold desc;
```

ex_id	ex_name	no_products_sold
7	sankari	10
2	arthi	7
4	kaviya	6
8	varshini	2
5	sanjay	2
6	santhosh	1


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
company_sales
Tables
category
Columns
Indexes
Foreign Keys
Triggers
customer
location
product
Columns
product_code
product_name
unit_price
category_code
Indexes
Foreign Keys
Triggers
sale
Columns
cust_id
ex_id
prod_code
date_purchase
Administration Schemas
Information
Table: product
Columns:
product_code varchar(20) PK
product_name varchar(255)
unit_price float
category_code varchar(20)
Related Tables:
Target category (category_code → category_code)
On Update RESTRICT
On Delete RESTRICT
Object Info Session
SQL File 3* SQL File 4* Administration - Data Export SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*
Limit to 1000 rows
1 SELECT
2 sale.ex_id,sales_ex.ex_name, SUM(units) as no_products_sold
3 FROM
4 sale
5 INNER JOIN
6 sales_ex ON sale.ex_id = sales_ex.ex_id
7 GROUP BY sale.ex_id
8 order by no_products_sold desc;
Result Grid Filter Rows: Export: Wrap Cell Content:
ex_id ex_name no_products_sold
7 sankari 10
2 arthi 7
4 kaviya 6
8 varshini 2
5 sanjay 2
6 santhosh 1
Result Grid
Form Editor
Field Types
Query Stats
Result 8
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
ENG 21:33