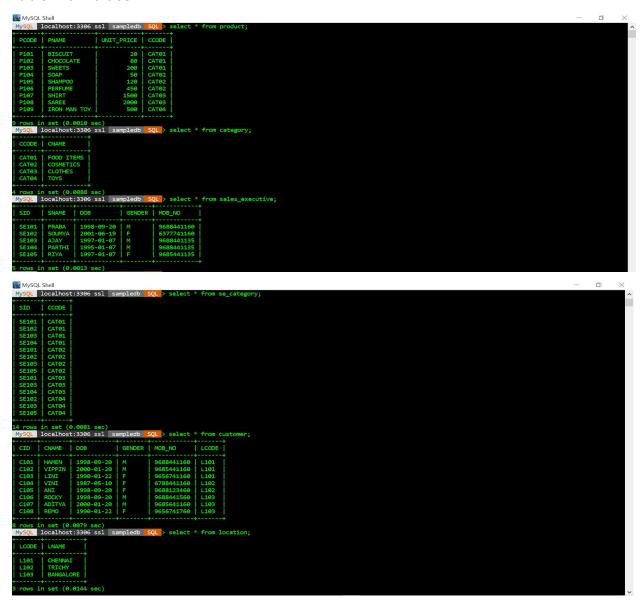
# **SQL Concepts**

## Prabhakar

- 1. Assuming you are ready with the 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 script file contains all the creating database, table and inserting queries.

### Table with values:





- 2. Write a query to retrieve the most sold product per day in a specific location (take any location) in the last week.
  - Most sold products in a location (Chennai "L101") in last week.

#### Query:

View for order details along with its product details:

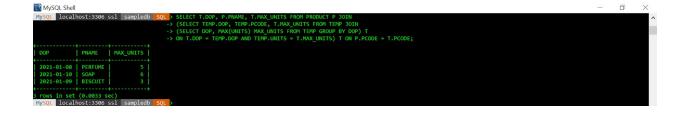
CREATE VIEW ORDER\_DETAIL AS ( SELECT OT.ORDER\_ID, OT.SID, OT.CID, OPD.PCODE, OPD.PNAME, OPD.UNITS, OT.DOP FROM ORDER\_T OT INNER JOIN (SELECT ORDER\_ID, OP.PCODE, PNAME, UNITS FROM ORDER\_PRODUCT OP INNER JOIN PRODUCT P ON P.PCODE = OP.PCODE) OPD ON OPD.ORDER\_ID = OT.ORDER\_ID);

View for products that is sold on chennai in last seven days with units:

CREATE VIEW TEMP AS (SELECT PCODE, DOP, SUM(UNITS) UNITS FROM ORDER\_DETAIL OD INNER JOIN (SELECT CID FROM CUSTOMER WHERE LCODE = "L101") CT ON CT.CID = OD.CID AND OD.DOP > NOW() - INTERVAL 1 WEEK GROUP BY PCODE, DOP);

### **Final Query:**

SELECT T.DOP, P.PNAME, T.MAX\_UNITS FROM PRODUCT P JOIN (SELECT TEMP.DOP, TEMP.PCODE, T.MAX\_UNITS FROM TEMP JOIN (SELECT DOP, MAX(UNITS) MAX\_UNITS FROM TEMP GROUP BY DOP) T ON T.DOP = TEMP.DOP AND TEMP.UNITS = T.MAX\_UNITS) T ON P.PCODE = T.PCODE;



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.

### Query:

SELECT SE.\*, IFNULL(S.CNT,0) AS NO\_OF\_PRODUCT\_SOLD FROM SALES\_EXECUTIVE SE JOIN (SELECT SID, COUNT(PCODE) AS CNT FROM ORDER\_PRODUCT OP JOIN ORDER\_T OT ON OP.ORDER\_ID = OT.ORDER\_ID GROUP BY SID) S ON SE.SID = S.SID;



Note: All the queries are in the script file that i have attached.