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Database Schema Description

Tables and their Structures

1. COUNTRY Table:

- o Purpose: Stores information about countries.
- o Columns:
 - COUNTRY_NAME: The name of the country (VARCHAR(15)).
 - COUNTRY_CODE: The unique code of the country (VARCHAR(2), Primary Key).

2. SUPPLIERS Table:

- Purpose: Stores supplier details.
- o Columns:
 - SPL_ID: Unique identifier for the supplier (CHAR(9), Primary Key).
 - SUPL_NAME: Name of the supplier (VARCHAR(15), Not Null).
 - SUPL_REG_COUNTRY: Country code of supplier's registered country (VARCHAR(2), Foreign Key referencing COUNTRY).

3. PRODUCTS Table:

- o Purpose: Contains information about products.
- o Columns:
 - PROD_ID: Unique identifier for the product (CHAR(9), Primary Key).
 - PROD_CATEGORY: Category of the product (VARCHAR(15), Not Null).
 - PROD_NAME: Name of the product (VARCHAR(15), Not Null).
 - UNIT: Measurement unit of the product (VARCHAR(5)).
 - MAN_UNIT_PRICE: Manufacturer's unit price (DECIMAL(10, 2)).
 - ORIGIN_COUNTRY: Country code of product's origin (VARCHAR(2), Foreign Key referencing COUNTRY).
 - SPL_ID: Supplier ID (CHAR(9), Foreign Key referencing SUPPLIERS).

4. RETAILERS Table:

- Purpose: Stores retailer details.
- o Columns:
 - STORE_ID: Unique identifier for the retailer (CHAR(9), Primary Key).
 - STORE_NAME: Name of the retailer store (VARCHAR(20), Not Null).
 - STORE_COUNTRY: Country code of retailer's location (VARCHAR(2), Foreign Key referencing COUNTRY).
 - CHANNEL_LEVEL: Level of the retail channel (VARCHAR(15)).

5. ORDERS Table:

- o Purpose: Contains order details.
- o Columns:
 - ORDER_DATE: Date of the order (DATE, Not Null).
 - ORDER_ID: Unique identifier for the order (CHAR(9), Primary Key).
 - STORE_ID: Store ID of the retailer placing the order (CHAR(9), Foreign Key referencing RETAILERS).

ORDER_AMOUNT: Total amount for the order (DECIMAL(10, 2)).

6. ORDER DETAILS Table:

- Purpose: Details of each order including individual products.
- Columns:
 - ORDER_DETAIL_ID: Unique identifier for the order detail (CHAR(9), Primary Key).
 - ORDER_ID: Identifier for the related order (CHAR(9), Foreign Key referencing ORDERS).
 - PRODUCT_ID: Identifier for the product (CHAR(9), Foreign Key referencing PRODUCTS).
 - UNIT_PRICE: Price per unit of the product (DECIMAL(10, 2)).
 - ORDERED_QTITY: Quantity of the product ordered (INT).
 - TOTAL_AMOUNT: Computed column as (ORDERED_QTITY * UNIT_PRICE), PERSISTED.

Relationships

- COUNTRY is referenced by SUPPLIERS, PRODUCTS, and RETAILERS through COUNTRY_CODE.
- SUPPLIERS is referenced by PRODUCTS through SPL_ID.
- RETAILERS is referenced by ORDERS through STORE ID.
- ORDERS is referenced by ORDER_DETAILS through ORDER_ID.
- PRODUCTS is referenced by ORDER_DETAILS through PRODUCT_ID.

Trigger

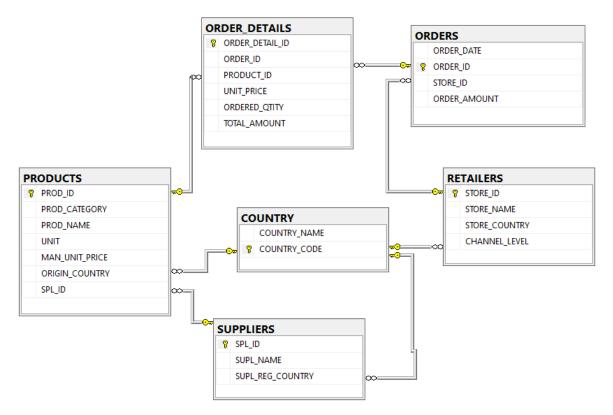
- UpdateOrderAmount Trigger:
 - Purpose: Automatically updates the ORDER_AMOUNT in the ORDERS table whenever there are changes (INSERT, UPDATE, DELETE) in the ORDER DETAILS table.
 - o Logic:
 - The trigger recalculates the ORDER_AMOUNT for each affected order by summing the TOTAL_AMOUNT from the ORDER DETAILS table.
 - It ensures that the ORDER_AMOUNT in the ORDERS table reflects the sum of all related TOTAL_AMOUNT values from the ORDER_DETAILS.

QUERIES

-- CREATING TABLES

```
COUNTRY_CODE VARCHAR(2),
   PRIMARY KEY (COUNTRY_CODE)
);
CREATE TABLE SUPPLIERS (
   SPL_ID CHAR(9) NOT NULL,
   SUPL_NAME VARCHAR(15) NOT NULL,
   SUPL_REG_COUNTRY VARCHAR(2),
   PRIMARY KEY (SPL_ID),
);
CREATE TABLE PRODUCTS (
   PROD ID CHAR(9) NOT NULL,
   PROD_CATEGORY VARCHAR(15) NOT NULL,
   PROD_NAME VARCHAR(15) NOT NULL,
   UNIT VARCHAR(5),
   MAN_UNIT_PRICE DECIMAL(10, 2),
   ORIGIN_COUNTRY VARCHAR(2),
   SPL_ID CHAR(9) NOT NULL,
   PRIMARY KEY (PROD_ID),
);
CREATE TABLE RETAILERS (
   STORE ID CHAR(9) NOT NULL,
   STORE NAME VARCHAR(20) NOT NULL,
   STORE COUNTRY VARCHAR(2),
   CHANNEL LEVEL VARCHAR(15),
   PRIMARY KEY (STORE_ID),
);
CREATE TABLE ORDERS (
   ORDER DATE DATE NOT NULL,
   ORDER ID CHAR(9) PRIMARY KEY,
   STORE ID CHAR(9) NOT NULL,
   ORDER_AMOUNT DECIMAL(10, 2),
);
CREATE TABLE ORDER DETAILS (
   ORDER DETAIL ID CHAR(9) PRIMARY KEY,
   ORDER_ID CHAR(9),
   PRODUCT_ID CHAR(9),
   UNIT_PRICE DECIMAL(10, 2),
   ORDERED_QTITY INT,
   TOTAL_AMOUNT AS (ORDERED_QTITY * UNIT_PRICE) PERSISTED,
);
```

--Database Diagram



-- CREATING TRIGGER

```
--creating trigger to update UpdateOrderAmount in ORDERS table based on ORDERS_DETAILS
CREATE TRIGGER UpdateOrderAmount
ON ORDER DETAILS
AFTER INSERT, UPDATE, DELETE
AS
BEGIN
    UPDATE ORDERS
    SET ORDER_AMOUNT = (
        SELECT SUM(TOTAL_AMOUNT)
        FROM ORDER_DETAILS
        WHERE ORDER_DETAILS.ORDER_ID = ORDERS.ORDER_ID
    FROM ORDERS
    INNER JOIN (
        SELECT DISTINCT ORDER_ID
        FROM INSERTED
        UNION
        SELECT DISTINCT ORDER_ID
        FROM DELETED
    ) AS OrderIds ON ORDERS.ORDER_ID = OrderIds.ORDER_ID;
END;
```

--Inserting values into TABLES

```
INSERT INTO COUNTRY (COUNTRY_NAME, COUNTRY_CODE)
VALUES
('Italy', 'IT'),
('France', 'FR'),
('Poland', 'PL'),
('Germany', 'DE'),
```

```
('Netherlands', 'NL'),
  ('Latvia', 'LV'), ('Spain', 'ES'),
  ('Portugal', 'PT'), ('Slovenia', 'SI'),
   ('Greece', 'GR');
  INSERT INTO SUPPLIERS (SPL ID, SUPL NAME, SUPL REG COUNTRY) VALUES
 INSERT INTO SUPPLIERS (SPL_ID, SU ('MAN001', 'Realbuzz', 'IT'), ('MAN002', 'Kanoodle', 'FR'), ('MAN003', 'Photobug', 'PL'), ('MAN004', 'Zazio', 'DE'), ('MAN005', 'Vipe', 'NL'), ('MAN006', 'Midel', 'LV'), ('MAN007', 'Dynabox', 'ES'), ('MAN008', 'Jabbersphere', 'PT'), ('MAN009', 'Oba', 'SI'), ('MAN010', 'Leexo', 'GR');
  INSERT INTO PRODUCTS (PROD_ID, PROD_CATEGORY, PROD_NAME, UNIT, MAN_UNIT_PRICE,
ORIGIN_COUNTRY, SPL_ID) VALUES
('PROD1', 'Vegetables', 'Broccoli', 'kg', '2.35', 'IT', 'MAN001'),
('PROD2', 'Vegetables', 'Yellow tomatoes', 'kg', '1.21', 'NL', 'MAN003'),
('PROD3', 'Vegetables', 'Cherry tomatoes', 'kg', '1.98', 'NL', 'MAN005'),
('PROD4', 'Vegetables', 'Red tomatoes', 'kg', '2.21', 'GR', 'MAN005'),
('PROD5', 'Vegetables', 'Cucumbers', 'kg', '2.31', 'GR', 'MAN006'),
('PROD6', 'Vegetables', 'Egpplants', 'kg', '2.31', 'GR', 'MAN006'),
('PROD7', 'Vegetables', 'Garlic', 'kg', '3.51', 'SI', 'MAN006'),
('PROD8', 'Vegetables', 'Garrot', 'kg', '3.51', 'SI', 'MAN006'),
('PROD9', 'Vegetables', 'Potato', 'kg', '0.35', 'NL', 'MAN002'),
('PROD9', 'Vegetables', 'Potato', 'kg', '0.35', 'NL', 'MAN002'),
('PROD10', 'Fruits', 'Banana', 'kg', '0.99', 'GR', 'MAN001'),
('PROD11', 'Fruits', 'Citron', 'kg', '0.35', 'PL', 'MAN003'),
('PROD12', 'Fruits', 'Grapefruit', 'kg', '0.36', 'IT', 'MAN001'),
('PROD13', 'Fruits', 'Pears', 'kg', '2.21', 'SI', 'MAN001'),
('PROD14', 'Fruits', 'Nectarine', 'kg', '2.25', 'PT', 'MAN001'),
('PROD15', 'Fruits', 'Nectarine', 'kg', '2.25', 'PT', 'MAN001'),
('PROD16', 'Fruits', 'Orange', 'kg', '2.25', 'PT', 'MAN000'),
('PROD17', 'Beverage', 'Water', 'btl', '0.55', 'LV', 'MAN000'),
('PROD19', 'Beverage', 'Water', 'Pack', '4.25', 'DE', 'MAN0004'),
('PROD20', 'Beverage', 'Red wine', 'Pack', '5.71', 'GR', 'MAN0004'),
('PROD21', 'Beverage', 'Red wine', 'btl', '15', 'PT', 'MAN0001');
  ORIGIN_COUNTRY, SPL_ID) VALUES
  INSERT INTO RETAILERS (STORE_ID, STORE_NAME, STORE_COUNTRY, CHANNEL_LEVEL) VALUES
   ('ST001', 'Plambee', 'PL', 'Main'),
  ('ST002', 'Feedfish', 'IT', 'Secondary'),
   ('ST003', 'Kazu', 'DE', 'Rural'),
  ('ST004', 'Gabspot', 'DE', 'Rural'),
('ST005', 'Kaymbo', 'PL', 'Secondary'),
('ST006', 'Voonix', 'PL', 'Rural'),
  ('ST007', 'Blogtags', 'IT', 'Secondary'),
('ST008', 'Realpoint', 'IT', 'Secondary'),
('ST009', 'Dabshots', 'DE', 'Rural'),
('ST010', 'Jabbersphere', 'PL', 'Main'),
('ST011', 'Feedfire', 'DE', 'Main');
  INSERT INTO ORDERS (ORDER_DATE, ORDER_ID, STORE_ID) VALUES
 ('2024-01-10', 'ORD001', 'ST001'),
('2024-01-23', 'ORD002', 'ST002'),
('2024-01-31', 'ORD003', 'ST003'),
('2024-02-03', 'ORD004', 'ST003'),
('2024-02-27', 'ORD005', 'ST005'),
('2024-03-10', 'ORD006', 'ST006'),
('2024-03-11', 'ORD007', 'ST007'),
```

```
('2024-03-15', 'ORD008', 'ST001'),
('2024-03-20', 'ORD009', 'ST002'),
('2024-03-26', 'ORD010', 'ST003'),
('2024-03-28', 'ORD011', 'ST005'),
('2024-03-29', 'ORD012', 'ST008'),
('2024-03-30', 'ORD013', 'ST009'),
('2024-04-01', 'ORD013', 'ST009'),
('2024-04-04', 'ORD015', 'ST001'),
('2024-04-06', 'ORD016', 'ST005'),
('2024-04-09', 'ORD017', 'ST006'),
('2024-04-12', 'ORD018', 'ST010'),
('2024-04-15', 'ORD019', 'ST011'),
('2024-04-20', 'ORD020', 'ST005'),
('2024-04-20', 'ORD021', 'ST006'),
('2024-05-01', 'ORD023', 'ST011'),
('2024-05-02', 'ORD024', 'ST005'),
('2024-05-02', 'ORD025', 'ST001'),
('2024-05-26', 'ORD026', 'ST002'),
('2024-05-28', 'ORD027', 'ST009'),
('2024-05-30', 'ORD030', 'ST005');
('2024-05-31', 'ORD031', 'ST005');
     INSERT INTO ORDER_DETAILS (ORDER_DETAIL_ID, ORDER_ID, PRODUCT_ID, UNIT_PRICE,
    ORDERED OTITY) VALUES
      ('OZ298', 'ORD001', 'PROD4', '2.75', '845'),
     ('ZS978', 'ORD001', 'PROD22', '17.64', '716'), ('JW778', 'ORD002', 'PROD7', '5.01', '948'),
     ('GW322', 'ORD002', 'PROD13', '0.95', '612'),
    ('LV887', 'ORD002', 'PROD13', '0.96', '905'), ('YS772', 'ORD002', 'PROD12', '2.15', '982'), ('RY197', 'ORD003', 'PROD9', '0.75', '761'),
('YS772', 'ORD002', 'PROD12', '2.15', '982'),
('RY197', 'ORD003', 'PROD9', '0.75', '761'),
('WY766', 'ORD003', 'PROD19', '7.21', '642'),
('GZ897', 'ORD004', 'PROD16', '5.52', '624'),
('CZ422', 'ORD004', 'PROD16', '5.78', '988'),
('MQ630', 'ORD004', 'PROD11', '3.01', '674'),
('XM332', 'ORD005', 'PROD11', '0.89', '780'),
('SG197', 'ORD005', 'PROD2', '2.01', '526'),
('DL980', 'ORD005', 'PROD9', '0.98', '595'),
('PE782', 'ORD005', 'PROD11', '1.15', '515'),
('RI732', 'ORD006', 'PROD10', '1.75', '947'),
('O8413', 'ORD006', 'PROD12', '17.86', '578'),
('NY331', 'ORD006', 'PROD10', '1.68', '692'),
('AH748', 'ORD007', 'PROD10', '1.68', '692'),
('AH748', 'ORD007', 'PROD10', '1.98', '625'),
('SQ969', 'ORD008', 'PROD10', '1.98', '625'),
('SQ969', 'ORD008', 'PROD10', '1.85', '955'),
('MF668', 'ORD008', 'PROD15', '4.25', '785'),
('H7628', 'ORD011', 'PROD15', '4.25', '785'),
('YY19', 'ORD011', 'PROD15', '4.25', '785'),
('YY19', 'ORD011', 'PROD15', '4.25', '785'),
('YY148', 'ORD011', 'PROD15', '1.32', '701'),
('YY148', 'ORD011', 'PROD15', '1.32', '701'),
('YY148', 'ORD011', 'PROD15', '1.35', '597'),
('DE452', 'ORD012', 'PROD5', '1.75', '924'),
('LZ731', 'ORD012', 'PROD7', '4.95', '700'),
('ML472', 'ORD012', 'PROD7', '4.95', '700'),
('YL298', 'ORD012', 'PROD7', '4.95', '700'),
('YL298', 'ORD012', 'PROD7', '4.95', '700'),
('YL42403', 'ORD014', 'PROD7', '5.25', '908'),
('SD906', 'ORD014', 'PROD7', '8.15', '945'),
('SJ713', 'ORD014', 'PROD5', '2.31', '552'),
```

```
('DQ375', 'ORD014', 'PROD4', '3.01', '878'),
('UJ188', 'ORD014', 'PROD20', '29.61', '730'),
('UH800', 'ORD015', 'PROD7', '6.21', '643'),
('YN940', 'ORD015', 'PROD22', '19.78', '515'),
('AS367', 'ORD015', 'PROD21', '20.35', '697'),
('OD311', 'ORD016', 'PROD21', '19.65', '579'),
('QV478', 'ORD016', 'PROD5', '2.31', '824'),
('CC314', 'ORD016', 'PROD11', '1.34', '888'),
('WI053', 'ORD017', 'PROD11', '1.34', '888'),
('WI053', 'ORD017', 'PROD19', '7.99', '903'),
('UW992', 'ORD017', 'PROD19', '7.99', '903'),
('UM038', 'ORD017', 'PROD19', '8.99', '530'),
('UM038', 'ORD017', 'PROD19', '8.99', '530'),
('CL123', 'ORD017', 'PROD11', '0.78', '637'),
('CL123', 'ORD017', 'PROD18', '0.75', '917'),
('D0963', 'ORD018', 'PROD18', '0.99', '638'),
('ID720', 'ORD020', 'PROD12', '1.99', '904'),
('MI144', 'ORD020', 'PROD19', '13.51', '854'),
('YG176', 'ORD021', 'PROD19', '13.51', '854'),
('AX590', 'ORD021', 'PROD19', '13.51', '854'),
('LY401', 'ORD022', 'PROD19', '13.51', '856'),
('PG703', 'ORD021', 'PROD19', '13.51', '856'),
('PG703', 'ORD022', 'PROD19', '13.51', '866'),
('AD514', 'ORD022', 'PROD19', '13.51', '866'),
('AD544', 'ORD023', 'PROD10', '1.36', '757'),
('LR728', 'ORD023', 'PROD11', '3.51', '905'),
('VC886', 'ORD023', 'PROD11', '3.51', '905'),
('VC886', 'ORD023', 'PROD11', '3.51', '905'),
('VC886', 'ORD023', 'PROD11', '0.82', '738'),
('EW929', 'ORD024', 'PROD17', '5.86', '920'),
( 'VC886', 'ORD023', 'PROD16', '4.35', '948'), ('VC886', 'ORD023', 'PROD16', '4.35', '948'), ('UY784', 'ORD023', 'PROD11', '0.82', '738'), ('EW929', 'ORD024', 'PROD17', '5.86', '920'), ('VA714', 'ORD024', 'PROD17', '5.86', '920'), ('VA714', 'ORD024', 'PROD17', '3.21', '939'), ('YN401', 'ORD025', 'PROD18', '1.15', '800'), ('SI401', 'ORD025', 'PROD18', '1.15', '800'), ('SI401', 'ORD025', 'PROD13', '1.35', '672'), ('YQ864', 'ORD026', 'PROD13', '1.35', '672'), ('YQ864', 'ORD026', 'PROD21', '18', '762'), ('OQ287', 'ORD026', 'PROD18', '0.75', '701'), ('RL634', 'ORD026', 'PROD18', '0.75', '701'), ('RL634', 'ORD027', 'PROD17', '5.98', '989'), ('WY773', 'ORD027', 'PROD17', '5.98', '989'), ('WG896', 'ORD027', 'PROD17', '5.98', '989'), ('PC684', 'ORD028', 'PROD21', '19.69', '635'), ('FC684', 'ORD028', 'PROD5', '1.25', '710'), ('FA179', 'ORD028', 'PROD5', '1.25', '710'), ('B4691', 'ORD028', 'PROD10', '1.89', '993'), ('B6415', 'ORD028', 'PROD10', '1.89', '993'), ('SH691', 'ORD028', 'PROD10', '1.89', '993'), ('SH691', 'ORD028', 'PROD10', '1.89', '993'), ('SH691', 'ORD028', 'PROD10', '1.56', '827'), ('IA208', 'ORD029', 'PROD10', '1.66', '760'), ('CJ518', 'ORD030', 'PROD10', '1.66', '760'), ('CJ518', 'ORD030', 'PROD10', '1.66', '760'), ('D1990', 'ORD030', 'PROD10', '1.66', '760'), ('D1990', 'ORD030', 'PROD16', '4.81', '586'), ('PI981', 'ORD030', 'PROD16', '4.81', '586'), ('PI981', 'ORD030', 'PROD16', '4.81', '586'), ('PI991', 'ORD030', 'PROD16', '4.65', '886'), ('HU346', 'ORD030', 'PROD16', '4.65', '886'), ('HU346', 'ORD030', 'PROD16', '4.65', '886'), ('HU346', 'ORD030', 'PROD16', '4.65', '886'), ('HU349', 'ORD030', 'PROD16', '4.65', '886'), ('HU346', 'ORD030', 'PROD16', '4.65', '886'), ('HU346', 'ORD031', 'PROD15', '4.29', '742'), ('MD245', 'ORD031', 'PROD15', '4.29', '742'), ('MD245', 'ORD031', 'PROD15', '3.15', '598');
```

```
--COUNT
```

-- Detecting products in Category

```
SELECT PROD CATEGORY, COUNT(*) AS CountOfProducts InCategory
FROM PRODUCTS
GROUP BY PROD CATEGORY;
--Min, MAX, AVG
SELECT O.STORE_ID, O.ORDER_ID, O.ORDER_AMOUNT, AVG(O.ORDER_AMOUNT) OVER () AS
AvgOrderAmount
FROM ORDERS O
WHERE O.ORDER AMOUNT > (SELECT AVG(ORDER AMOUNT) FROM ORDERS);
SELECT MAX(ORDER_AMOUNT) AS MaxOrder, MIN (ORDER_AMOUNT) AS MinOrder,
ROUND(AVG(ORDER_AMOUNT),2) AS AvgOrder
FROM ORDERS;
-- CASE WHEN
--Orders' classification
SELECT ORDER_DATE, ORDER_ID, ORDER_AMOUNT,
CASE
      WHEN ORDER AMOUNT <= 6000 THEN 'SmallOrder'
      WHEN ORDER_AMOUNT > 6500 AND ORDER_AMOUNT <= 12000 THEN 'AverageOrder'
      ELSE 'LargeOrder'
END AS OrderClass
FROM ORDERS;
--Count of orders in each class
SELECT OrderClass, COUNT(*) AS OrderCount
FROM (
   SELECT
   CASE
       WHEN ORDER AMOUNT <= 6000 THEN 'SmallOrder'
       WHEN ORDER_AMOUNT > 6000 AND ORDER_AMOUNT <= 12000 THEN 'AverageOrder'
       ELSE 'LargeOrder'
   END AS OrderClass
   FROM ORDERS
) AS OrderClassTable
GROUP BY OrderClass
ORDER BY OrderCount DESC;
--SELECT AND JOIN TABLES
-- selecting fruits, fruits' suppliers and their countries for Fruits
SELECT P.PROD_NAME, S.SUPL_NAME, C.COUNTRY_NAME
FROM PRODUCTS P
LEFT JOIN SUPPLIERS S on P.SPL_ID = S.SPL_ID
LEFT JOIN COUNTRY C on S.SUPL_REG_COUNTRY = C.COUNTRY_CODE
WHERE P.PROD_CATEGORY = 'Fruits';
     calculating total order amount for each Reteiler
SELECT R.STORE NAME, SUM(O.ORDER AMOUNT) AS TOTAL
FROM RETAILERS R
RIGHT JOIN ORDERS O on R.STORE ID = O.STORE ID
GROUP BY R.STORE NAME
ORDER BY TOTAL DESC;
```

-- Calculating TotalOrdersAmount for every Months

```
SELECT MONTH(ORDER_DATE) AS OrderMonth, SUM(ORDER_AMOUNT) AS TotalOrderAmount
FROM ORDERS
GROUP BY MONTH(ORDER_DATE);
```

-- CALCULATION AND JOINING TABLES

-- Products Ordered Quantity and Orders Amount

-- Revenue for each Product by Month

```
SELECT P.PROD ID,
      MONTH(O.ORDER DATE) AS ORDER MONTH,
      P. PROD NAME,
      SUM(OD.ORDERED QTITY) AS TotalOrderedQuantity,
      P.UNIT,
      SUM(OD.TOTAL AMOUNT) AS TotalOrdersAmount,
       SUM(OD.ORDERED QTITY*P.MAN UNIT PRICE) AS ProdExpences,
       SUM(OD.TOTAL AMOUNT) - SUM(OD.ORDERED QTITY*P.MAN UNIT PRICE) AS Revenue
FROM ORDER DETAILS OD
      LEFT JOIN PRODUCTS P on OD.PRODUCT ID = P.PROD ID
      LEFT JOIN ORDERS O on OD.ORDER_ID = O.ORDER_ID
GROUP BY P.PROD ID,
      MONTH(O.ORDER_DATE),
      P.PROD_NAME,
      P.UNIT
ORDER BY ORDER_MONTH ASC;
```

-- Revenue FOR every MONTH

```
SELECT
    MONTH(0.ORDER_DATE) AS ORDER_MONTH,
    SUM(OD.TOTAL_AMOUNT) AS TotalOrdersAmount,
    SUM(OD.ORDERED_QTITY * P.MAN_UNIT_PRICE) AS TotalExpenses,
    SUM(OD.TOTAL_AMOUNT) - SUM(OD.ORDERED_QTITY * P.MAN_UNIT_PRICE) AS Revenue
FROM
    ORDER_DETAILS AS OD
LEFT JOIN
    PRODUCTS AS P ON OD.PRODUCT_ID = P.PROD_ID
LEFT JOIN
    ORDERS AS O ON OD.ORDER_ID = O.ORDER_ID
GROUP BY
    MONTH(0.ORDER_DATE)
ORDER BY
    ORDER_MONTH;
```

-- Revenue for each Product

```
SELECT P.PROD_ID,
```

```
SUM(OD.ORDERED QTITY) AS TotalOrderedQuantity,
      P.UNIT.
      SUM(OD.TOTAL AMOUNT) AS TotalOrdersAmount,
       SUM(OD.ORDERED QTITY*P.MAN UNIT PRICE) AS ProdExpences,
       SUM(OD.TOTAL AMOUNT) - SUM(OD.ORDERED QTITY *P.MAN UNIT PRICE) AS Revenue
FROM ORDER DETAILS OD
      LEFT JOIN PRODUCTS P on OD. PRODUCT ID = P. PROD ID
GROUP BY P.PROD_ID,
      P. PROD NAME,
      P.UNIT
ORDER BY Revenue DESC;
-- Revenue for each Reteiler
SELECT R.STORE_NAME,
             SUM(OD.TOTAL_AMOUNT) AS TotalOrdersAmount,
             SUM(OD.ORDERED_QTITY*P.MAN_UNIT_PRICE) AS ProdExpences,
             SUM(OD.TOTAL_AMOUNT) - SUM(OD.ORDERED_QTITY *P.MAN_UNIT_PRICE) AS Revenue
FROM RETAILERS R
             LEFT JOIN ORDERS O on R.STORE_ID = O.STORE_ID
             LEFT JOIN ORDER DETAILS OD on O.ORDER ID = OD.ORDER ID
             LEFT JOIN PRODUCTS P on OD. PRODUCT ID = P. PROD ID
GROUP BY R.STORE NAME
ORDER BY Revenue DESC;
-- Revenue and Turnover for each Country
SELECT C.COUNTRY NAME,
      SUM(OD.TOTAL_AMOUNT) AS TotalOrdersAmount,
      SUM(OD.ORDERED QTITY * P.MAN UNIT PRICE) AS ProdExpences,
      SUM(OD.TOTAL AMOUNT) - SUM(OD.ORDERED QTITY*P.MAN UNIT PRICE) AS Revenue
FROM RETAILERS R
      LEFT JOIN ORDERS O on R.STORE_ID = O.STORE_ID
      LEFT JOIN ORDER_DETAILS OD on O.ORDER_ID = OD.ORDER_ID
      LEFT JOIN PRODUCTS P on OD.PRODUCT_ID = P.PROD_ID
      LEFT JOIN COUNTRY C on R.STORE_COUNTRY = c.COUNTRY_CODE
GROUP BY C.COUNTRY_NAME
ORDER BY Revenue DESC;
-- Revenue for each channel level
SELECT R. CHANNEL LEVEL,
       SUM(OD.TOTAL AMOUNT) AS TotalOrdersAmount,
      SUM(OD.ORDERED QTITY * P.MAN UNIT PRICE) AS ProdExpences,
      SUM(OD.TOTAL AMOUNT) - SUM(OD.ORDERED QTITY*P.MAN UNIT PRICE) AS Revenue
FROM RETAILERS R
      LEFT JOIN ORDERS O on R.STORE ID = O.STORE ID
      LEFT JOIN ORDER_DETAILS OD on O.ORDER_ID = OD.ORDER_ID
      LEFT JOIN PRODUCTS P on OD.PRODUCT_ID = P.PROD_ID
GROUP BY R. CHANNEL LEVEL
ORDER BY Revenue DESC;
--PIVOT TABLES
--Revenue in PIVOT table for each channel level and month
SELECT
    R.CHANNEL LEVEL,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 1 THEN OD. TOTAL AMOUNT - OD. ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Revenue_Jan,
```

P. PROD NAME.

```
SUM(CASE WHEN MONTH(0.ORDER DATE) = 2 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Revenue_Feb,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 3 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Revenue_Mar,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 4 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Revenue_Apr,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 5 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Revenue_May,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 6 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Revenue_Jun,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 7 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Revenue Jul,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 8 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Revenue_Aug,
    SUM(CASE WHEN MONTH(0.0RDER_DATE) = 9 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Revenue_Sep,
    SUM(CASE WHEN MONTH(0.0RDER DATE) = 10 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Revenue Oct,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 11 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Revenue_Nov,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 12 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Revenue_Dec,
    SUM(OD.TOTAL_AMOUNT - OD.ORDERED_QTITY * P.MAN_UNIT_PRICE) AS Revenue_AllMonths
FROM
    RETAILERS R
LEFT JOIN
    ORDERS O ON R.STORE_ID = O.STORE_ID
RTGHT JOTN
    ORDER DETAILS OD ON O.ORDER ID = OD.ORDER ID
LEFT JOIN
    PRODUCTS P ON OD. PRODUCT ID = P. PROD ID
GROUP BY
    R.CHANNEL_LEVEL
ORDER BY
    R.CHANNEL LEVEL;
-- Orders Amount in PIVOT table for each channel level and month
SELECT
    R.CHANNEL LEVEL,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 1 THEN OD.TOTAL AMOUNT ELSE Ø END) AS
TotalOrdersAmount Jan,
    SUM(CASE WHEN MONTH(O.ORDER_DATE) = 2 THEN OD.TOTAL_AMOUNT ELSE 0 END) AS
TotalOrdersAmount_Feb,
    SUM(CASE WHEN MONTH(O.ORDER_DATE) = 3 THEN OD.TOTAL_AMOUNT ELSE 0 END) AS
TotalOrdersAmount Mar,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 4 THEN OD.TOTAL AMOUNT ELSE Ø END) AS
TotalOrdersAmount_Apr,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 5 THEN OD.TOTAL AMOUNT ELSE 0 END) AS
TotalOrdersAmount_May,
    SUM(CASE WHEN MONTH(O.ORDER_DATE) = 6 THEN OD.TOTAL_AMOUNT ELSE 0 END) AS
TotalOrdersAmount_Jun,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 7 THEN OD.TOTAL AMOUNT ELSE 0 END) AS
TotalOrdersAmount_Jul,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 8 THEN OD.TOTAL AMOUNT ELSE 0 END) AS
TotalOrdersAmount_Aug,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 9 THEN OD.TOTAL AMOUNT ELSE 0 END) AS
TotalOrdersAmount Sep,
    SUM(CASE WHEN MONTH(0.ORDER DATE) = 10 THEN OD.TOTAL AMOUNT ELSE 0 END) AS
TotalOrdersAmount Oct,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 11 THEN OD.TOTAL_AMOUNT ELSE 0 END) AS
TotalOrdersAmount_Nov,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 12 THEN OD.TOTAL_AMOUNT ELSE 0 END) AS
TotalOrdersAmount Dec,
    SUM(OD.TOTAL_AMOUNT) AS TotalOrdersAmount_AllMonths
```

```
RETAILERS R
LEFT JOIN
    ORDERS O ON R.STORE ID = O.STORE ID
RIGHT JOIN
    ORDER_DETAILS OD ON O.ORDER_ID = OD.ORDER ID
LEFT JOTN
    PRODUCTS P ON OD. PRODUCT ID = P. PROD ID
GROUP BY
    R.CHANNEL LEVEL
ORDER BY
    R.CHANNEL LEVEL;
-- Expences in PIVOT table for each channel level and month
SELECT
    R.CHANNEL_LEVEL,
    SUM(CASE WHEN MONTH(O.ORDER_DATE) = 1 THEN OD.ORDERED_QTITY * P.MAN_UNIT_PRICE ELSE 0
END) AS ProdExpenses_Jan,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 2 THEN OD.ORDERED_QTITY * P.MAN_UNIT_PRICE ELSE 0
END) AS ProdExpenses_Feb,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 3 THEN OD.ORDERED_QTITY * P.MAN_UNIT_PRICE ELSE 0
END) AS ProdExpenses_Mar,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 4 THEN OD.ORDERED_QTITY * P.MAN_UNIT_PRICE ELSE 0
END) AS ProdExpenses_Apr,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 5 THEN OD.ORDERED OTITY * P.MAN UNIT PRICE ELSE 0
END) AS ProdExpenses May,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 6 THEN OD.ORDERED OTITY * P.MAN UNIT PRICE ELSE 0
END) AS ProdExpenses Jun,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 7 THEN OD.ORDERED OTITY * P.MAN UNIT PRICE ELSE 0
END) AS ProdExpenses_Jul,
    SUM(CASE WHEN MONTH(0.ORDER DATE) = 8 THEN OD.ORDERED QTITY * P.MAN UNIT PRICE ELSE 0
END) AS ProdExpenses Aug,
    SUM(CASE WHEN MONTH(0.ORDER DATE) = 9 THEN OD.ORDERED QTITY * P.MAN UNIT PRICE ELSE 0
END) AS ProdExpenses Sep,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 10 THEN OD.ORDERED QTITY * P.MAN UNIT PRICE ELSE
0 END) AS ProdExpenses_Oct,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 11 THEN OD.ORDERED QTITY * P.MAN UNIT PRICE ELSE
0 END) AS ProdExpenses Nov,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 12 THEN OD.ORDERED QTITY * P.MAN UNIT PRICE ELSE
0 END) AS ProdExpenses_Dec,
    SUM(OD.ORDERED QTITY * P.MAN UNIT PRICE) AS ProdExpenses AllMonths
FROM
    RETAILERS R
LEFT JOIN
    ORDERS O ON R.STORE_ID = O.STORE_ID
RIGHT JOIN
    ORDER_DETAILS OD ON O.ORDER_ID = OD.ORDER_ID
LEFT JOIN
    PRODUCTS P ON OD.PRODUCT_ID = P.PROD_ID
GROUP BY
    R.CHANNEL_LEVEL
ORDER BY
    R.CHANNEL LEVEL;
--VIEW and UNION
--Creation of view for each retailer by month in 2024
CREATE VIEW RevenueByReteilers2024 AS
SELECT
    R.STORE_NAME,
    SUM(CASE WHEN MONTH(0.0RDER_DATE) = 1 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Jan,
```

FROM

```
SUM(CASE WHEN MONTH(O.ORDER DATE) = 2 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Feb,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 3 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Mar,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 4 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Apr.
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 5 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS May,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 6 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Jun,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 7 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Jul,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 8 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Aug,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 9 THEN OD.TOTAL_AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT_PRICE ELSE 0 END) AS Sep,
    SUM(CASE WHEN MONTH(0.0RDER DATE) = 10 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Oct,
    SUM(CASE WHEN MONTH(0.0RDER DATE) = 11 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Nov,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 12 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Dec,
    SUM(OD.TOTAL_AMOUNT - OD.ORDERED_QTITY * P.MAN_UNIT_PRICE) AS TOTAL_YEAR
FROM
    RETAILERS R
LEFT JOIN
    ORDERS O ON R.STORE_ID = O.STORE_ID
RIGHT JOIN
    ORDER_DETAILS OD ON O.ORDER_ID = OD.ORDER_ID
LEFT JOIN
    PRODUCTS P ON OD. PRODUCT ID = P.PROD ID
WHERE YEAR(O.ORDER_DATE)=2024
GROUP BY
    R.STORE NAME
UNION ALL
SELECT
    'TOTAL_REVENUE' AS STORE_NAME,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 1 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Jan,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 2 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Feb,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 3 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Mar,
    SUM(CASE WHEN MONTH(0.ORDER_DATE) = 4 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Apr,
    SUM(CASE WHEN MONTH(O.ORDER_DATE) = 5 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS May,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 6 THEN OD. TOTAL AMOUNT - OD. ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Jun,
    SUM(CASE WHEN MONTH(O.ORDER_DATE) = 7 THEN OD.TOTAL_AMOUNT - OD.ORDERED_QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Jul,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 8 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Aug,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 9 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Sep,
    SUM(CASE WHEN MONTH(0.0RDER DATE) = 10 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Oct,
    SUM(CASE WHEN MONTH(0.ORDER DATE) = 11 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN_UNIT_PRICE ELSE 0 END) AS Nov,
    SUM(CASE WHEN MONTH(O.ORDER DATE) = 12 THEN OD.TOTAL AMOUNT - OD.ORDERED QTITY *
P.MAN UNIT PRICE ELSE 0 END) AS Dec,
    SUM(OD.TOTAL AMOUNT - OD.ORDERED QTITY * P.MAN UNIT PRICE) AS TOTAL REVENUE
```

```
RETAILERS R
LEFT JOIN
   ORDERS O ON R.STORE_ID = O.STORE_ID
RIGHT JOIN
   ORDER DETAILS OD ON O.ORDER ID = OD.ORDER ID
LEFT JOIN
   PRODUCTS P ON OD.PRODUCT ID = P.PROD ID
WHERE YEAR(0.ORDER_DATE)=2024;
--Select from view
SELECT * FROM RevenueByReteilers2024;
--Delete view
DROP VIEW RevenueByReteilers2024
--STORED PROCEDURE
-- sored procedure to retrieve data for specific order
CREATE PROCEDURE OrderDetails
   @OrderID VARCHAR(9)
BEGIN
SELECT O.ORDER DATE,
      OD.ORDER_ID,
      R.STORE_NAME,
      OD.PRODUCT_ID,
      P.PROD_NAME,
      OD.ORDERED_QTITY,
      OD.UNIT_PRICE,
      P.UNIT,
      OD.TOTAL_AMOUNT
FROM ORDER_DETAILS OD
      INNER JOIN PRODUCTS P on OD.PRODUCT_ID = P.PROD_ID
      LEFT JOIN ORDERS O on OD.ORDER_ID =0.ORDER_ID
      LEFT JOIN RETAILERS R on O.STORE_ID = R.STORE_ID
WHERE
       OD.ORDER_ID = @OrderID
END
-- executing procedure
EXEC OrderDetails @OrderID = '@OrderID'
-- EXAML
EXEC OrderDetails @OrderID = 'ORD001'
--stored procedure to retrieve data for specific product by month
CREATE PROCEDURE Product_Revenue
   @ProdID CHAR(9)
AS
BEGIN
SELECT P.PROD ID,
      MONTH(O.ORDER_DATE) AS ORDER_MONTH,
      P.PROD_NAME,
```

```
SUM(OD.ORDERED_QTITY) AS TotalOrderedQuantity,
      P.UNIT,
      SUM(OD.TOTAL_AMOUNT) AS TotalOrdersAmount,
      SUM(OD.ORDERED_QTITY*P.MAN_UNIT_PRICE) AS ProdExpences,
      SUM(OD.TOTAL AMOUNT) - SUM(OD.ORDERED QTITY*P.MAN UNIT PRICE) AS Revenue
FROM ORDER_DETAILS OD
      LEFT JOIN PRODUCTS P on OD.PRODUCT_ID = P.PROD_ID
      LEFT JOIN ORDERS O on OD.ORDER_ID = O.ORDER_ID
WHERE P.PROD ID = @ProdID
GROUP BY P.PROD ID,
      MONTH(O.ORDER DATE),
      P.PROD NAME,
      P.UNIT
ORDER BY ORDER_MONTH ASC
END;
-- executing procedure
EXEC Product_Revenue @ProdID = '@ProdID'
-- EXAML
EXEC Product Revenue @ProdID = 'PROD1'
--Procedure to update the manufacturer's price for a specific product
by 20%
CREATE PROCEDURE Product_Price_Update
   @ProdID CHAR(9)
AS
BEGIN
UPDATE PRODUCTS
SET MAN_UNIT_PRICE = MAN_UNIT_PRICE * 1.2
WHERE PROD_ID = @ProdID
END;
-- executing procedure
EXEC Product_Price_Update @ProdID = '@ProdID'
--EXEMPL
EXEC Product_Price_Update @ProdID = 'PROD1'
```