

SQL table creation codes

Products

```
CREATE TABLE [dbo].[Products] (  
    [Pname]      NVARCHAR (32) NOT NULL PRIMARY KEY,  
    [Maker]      NVARCHAR (32),  
    [Category]   NVARCHAR (32)  
) ;
```

ProductInOrders

```
CREATE TABLE [dbo].[ProductsInOrders] (  
    [Pname]      NVARCHAR (32) NOT NULL PRIMARY KEY,  
    [OPID]       INT NOT NULL ,  
    [OPrice]     INT NOT NULL ,  
    [OQuantity]  INT NOT NULL ,  
    [Delivery_date] DATETIME ,  
    [Status]     NVARCHAR (32),  
    [Sname]      NVARCHAR (32) NOT NULL,  
    [OID]        INT NOT NULL  
    FOREIGN KEY Pname REFERENCES Products (Pname)  
) ;
```

ProductsInShops

```
CREATE TABLE [dbo].[ProductsInShops] (  
    [Pname]      NVARCHAR (32),  
    [Maker]      NVARCHAR (32),  
    [Category]   NVARCHAR (32),  
    [SPID]       INT ,  
    [SPrice]     INT ,  
    [Squantity]  INT ,  
    [Sname]      NVARCHAR (32) NOT NULL  
    FOREIGN KEY Pname REFERENCES Products (Pname)  
) ;
```

Feedback

```
CREATE TABLE [dbo].[Feedback] (
    [Index] INT NOT NULL,
    [Pname] NVARCHAR (18) NOT NULL,
    [UID] INT NOT NULL,
    [Feedback_date_time] DATETIME NOT NULL PRIMARY KEY,
    [Rating] INT ,
    [Comment] NVARCHAR (14),
    FOREIGN KEY (Pname) REFERENCES Products(Pname)
);
```

Users

```
CREATE TABLE [dbo].[Users] (
    [UID] INT NOT NULL PRIMARY KEY,
    [Uname] NVARCHAR (32)
);
```

Orders

```
CREATE TABLE [dbo].[Orders] (
    [OID] INT NOT NULL PRIMARY KEY,
    [Order_date] DATETIME NOT NULL,
    [Shipping_address] INT ,
    [UID] INT NOT NULL,
    FOREIGN KEY (UID) REFERENCES Users(UID)
);
```

Complaints

```
CREATE TABLE [dbo].[Complaints] (
    [CID] INT NOT NULL PRIMARY KEY,
    [UID] INT NOT NULL,
    [Filed_date_time] DATETIME NOT NULL,
    [Complain_text] NVARCHAR (32),
    [Complain_status] NVARCHAR (32),
    [EID] INT ,
    [Handled_date_time] DATETIME ,
    FOREIGN KEY UID,EID REFERENCES Users(UID), Employee(EID)
);
```

ComplaintsOnOrders

```
CREATE TABLE [dbo].[ComplaintsOnOrders] (  
    [CID] INT NOT NULL PRIMARY KEY,  
    [OID] INT NOT NULL PRIMARY KEY,  
    FOREIGN KEY CID REFERENCES Complaints(CID)  
  
);
```

ComplaintsOnShops

```
CREATE TABLE [dbo].[ComplaintsOnShops] (  
    [CID] INT NOT NULL PRIMARY KEY,  
    [Sname] NVARCHAR (32),  
    FOREIGN KEY CID REFERENCES Complaints(CID)  
  
);
```

Shops

```
CREATE TABLE [dbo].[Shops] (  
    [Sname] NVARCHAR (32) NOT NULL PRIMARY KEY  
  
);
```

PriceRecord

```
CREATE TABLE [dbo].[PriceRecord] (  
    [Pname] NVARCHAR (32) NOT NULL,  
    [Start_date] DATETIME NOT NULL PRIMARY KEY,  
    [End_date] DATETIME,  
    [Price] INT NOT NULL,  
  
);
```

Employees

```
CREATE TABLE [dbo].[Employees] (  
    [EID] INT NOT NULL PRIMARY KEY,  
    [Employee_name] NVARCHAR (32) NOT NULL,  
    [Salary] INT,  
  
);
```

SQL query codes

Query 1

Find the average price of "iPhone Xs" on Shiokee from 1 August 2021 to 31 August 2021.

```
--To get average, multiply price by time, and divide by total time.
SELECT SUM(Price * Overlap) / SUM(Overlap)
FROM ( --This subquery returns the "weight" of each price record and the
price to be considered. Longer overlap -> greater consideration in avg.
    SELECT Price, DATEDIFF(day, IIF({d '2021-08-01'} > Start_date, {d
'2021-08-01'}, Start_date), IIF({d '2021-08-31'} < End_date, {d
'2021-08-31'}, End_date)) AS Overlap
    FROM ( --This subquery returns all price records which overlap with
the desired timeframe. We only need start date, end date, and price.
        SELECT Start_date, End_date, Price
        FROM PriceRecord
        WHERE Pname = 'iPhone Xs' AND End_date >= {d '2021-08-01'} AND
Start_date <= {d '2021-08-31'}
    ) AS X
) AS Y
```

Query 2

Find products that received at least 100 ratings of "5" in August 2021, and order them by their average ratings.

```
--Take only those products that satisfy the given condition, and get their
name and average rating.
SELECT Pname, AVG(CAST(Rating AS DECIMAL(10, 2))) AS AverageRating
FROM Feedback
WHERE Pname IN ( --Find the names of the products which satisfy the
specified condition.
    SELECT Pname
    FROM Feedback AS X
    WHERE Rating = 5 AND Feedback_date_time >= {d '2021-08-01'} AND
Feedback_date_time <= {d '2021-08-31'}
    GROUP BY Pname
    HAVING COUNT(*) >= 100 --Number to be reduced for demonstration
purposes.
)
GROUP BY Pname
ORDER BY AverageRating
```

Query 3

For all products purchased in June 2021 that have been delivered, find the average time from the ordering date to the delivery date.

```
/*
For all products purchased in June 2021 that have been delivered,
find the average time from the ordering date to the delivery date.
*/
--Take the average of each TimeInShipping for each product.
SELECT Pname, AVG(CAST(TimeInShipping AS DECIMAL(10, 2))) AS AvgTime
FROM ( --For each product in order, find the time spent in shipping.
      SELECT Pname, DATEDIFF(day, Order_date, Delivery_date) AS
TimeInShipping
      FROM ProductsInOrders AS P, Orders AS O
      WHERE Status = 'delivered' AND
            Order_date >= {d '2021-06-01'} AND
            Order_date <= {d '2021-06-30'} AND
            P.OID = O.OID --Join the ProductsInOrders and Orders
tables so that the Order_date and Delivery_date can be compared.
) AS X
GROUP BY Pname
```

Query 4

Let us define the “latency” of an employee by the average that he/she takes to process a complaint. Find the employee with the smallest latency.

```
/*
Let us define the “latency” of an employee by the average that he/she
takes to process a complaint. Find the employee with the smallest latency.
*/
--Select the employee with the lowest latency.
SELECT TOP 1 EID, LatencyIndiv
FROM ( --For each employee, find their average latency.
      SELECT EID, AVG(CAST(DATEDIFF(day, Filed_date_time, Handled_date_time)
AS DECIMAL(10, 2))) AS LatencyIndiv
      FROM ( --Get all addressed complaints.
            SELECT CID, Filed_date_time, Handled_date_time, EID
            FROM Complaints
            WHERE Complain_status = 'addressed'
            ) AS AddressedComplaints
      )
```

```

GROUP BY EID
) AS EmployeeLatency
ORDER BY LatencyIndiv

```

Query 5

Produce a list that contains (i) all products made by Samsung, and (ii) for each of them, the number of shops on Shiokee that sell the product.

```

/*
Produce a list that contains (i) all products made by Samsung, and
(ii) for each of them, the number of shops on Shiokee that sell the
product.
*/
--part (i) -> Pname, part (ii) -> NumOfShopSelling.
SELECT Pname, COUNT(DISTINCT Sname) AS NumOfShopSelling
FROM ProductsInShops
WHERE Maker = 'Samsung'
GROUP BY Pname

```

Query 6

Find shops that made the most revenue in August 2021

```

/*
Find shops that made the most revenue in August 2021.
*/
--Get the shop with the most revenue.
SELECT TOP 1 Sname
FROM ProductsInOrders
WHERE OID IN ( --Consider the orders made during the specified timeframe.
    SELECT OID
    FROM Orders
    WHERE {d '2021-08-01'} <= Order_date AND Order_date <= {d
'2021-08-31'}
)
GROUP BY Sname
ORDER BY SUM(OPrice * OQuantity) DESC --Order by revenue per shop.

```

Query 7

For users that made the most amount of complaints, find the most expensive products he/she has ever purchased.

If we take TOP 1 every time we get the MAX value row:

```
/*
If we take TOP 1 every time we get the MAX value row:
*/

SELECT TOP 1 UID, PName
FROM ProductsInOrders Inner Join Orders
    ON ProductsInOrders.OID = Orders.OID
WHERE UID = (SELECT TOP 1 UID
            FROM Complaints
            GROUP By UID
            ORDER BY COUNT(*) DESC)
ORDER BY OPrice DESC
```

If we don't take TOP 1 every time we get the MAX value row, instead use the WHERE method, so allow for getting several MAX value rows

```
/*
If we don't take TOP 1 every time we get the MAX value row, instead use
the WHERE method, so allow for getting several MAX value rows
*/

SELECT UID, Pname
FROM (
    SELECT DISTINCT ProductsInOrders.Pname AS Pname, ProductsInOrders.OPrice AS OPrice,
ProductsInOrders.OPID AS OPID, ProductsInOrders.OID AS OID, MaxUsersOIDUID.OID AS UID
    FROM (
        ( SELECT DISTINCT Orders.OID AS OID, Orders.OID AS UID
        FROM (
            ( SELECT UID
            FROM (SELECT UID, COUNT(*) AS ComplaintNum
                FROM Complaints
                GROUP BY UID) AS CountTable
            WHERE CountTable.ComplaintNum in (
                SELECT MAX(ComplaintNum2)
                FROM (SELECT UID, COUNT(*) AS ComplaintNum2
                    FROM Complaints
                    GROUP BY UID) AS CountTable2
                )
            )
        )
    )
```

```

        ) AS MaxUsersTable
        INNER JOIN Orders ON MaxUsersTable.UID = Orders.UID)
    ) AS MaxUsersOIDUID
    INNER JOIN ProductsInOrders ON MaxUsersOIDUID.OID = ProductsInOrders.OID
)
) AS SemiFinalTable
WHERE SemiFinalTable.OMPrice in (
    SELECT MAX(ProductsInOrders.OMPrice) AS OMPrice
    FROM (
        ( SELECT DISTINCT Orders.OID AS OID, Orders.UID AS UID
          FROM (
              ( SELECT UID
                FROM (SELECT UID, COUNT(*) AS ComplaintNum3
                     FROM Complaints
                     GROUP BY UID) AS CountTable3
                WHERE CountTable3.ComplaintNum3 in (
                    SELECT MAX(ComplaintNum4)
                    FROM (SELECT UID, COUNT(*) AS ComplaintNum4
                         FROM Complaints
                         GROUP BY UID) AS CountTable4
                )
            )
          ) AS MaxUsersTable2
          INNER JOIN Orders ON MaxUsersTable2.UID = Orders.UID)
        ) AS MaxUsersOIDUID2
        INNER JOIN ProductsInOrders ON MaxUsersOIDUID2.OID = ProductsInOrders.OID
    )
)
)

```

Query 8

Find products that have never been purchased by some users, but are the top 5 most purchased products by other users in August 2021.

```

/*
Find products that have never been purchased by some users, but are the
top 5 most purchased
products by other users in August 2021.
*/
--Display the top 5 products according to their quantity sold in Aug, 2021
SELECT TOP 5 Pname
FROM ( --Joining tables to find the quantity of each product sold in Aug,
2021

```



```

        SELECT ProductsInOrders.OQuantity, ProductsInOrders.OID,
ProductsInOrders.Pname
        FROM Orders INNER JOIN ProductsInOrders
            ON ProductsInOrders.OID = Orders.OID
        WHERE MONTH(Order_date) = 8 AND YEAR(Order_date) = 2021
    ) AS OrderProducts
--Exclude those products that have been ever purchased by user with UID =
'TBD'
WHERE Pname NOT IN (
    SELECT Pname
    FROM Orders INNER JOIN ProductsInOrders
    On ProductsInOrders.OID = Orders.OID
    WHERE UID = 'TBD' --CHANGE ME!
)
GROUP BY Pname
ORDER BY SUM(OQuantity)

```

Query 9

Find products that are increasingly being purchased over at least 3 months.

```

/*
Find products that are increasingly being purchased over at least 3 months
*/
--Fetch data on the name, year, month and sum of quantity sold in that
month of the products;
--The quantity purchased should be increasing
SELECT T1.Pname
--Duplicate three tables T1, T2, T3 based on the data fetched above
FROM (SELECT ProductsInOrders.Pname, YEAR(Order_date) AS Year,
MONTH(Order_date) AS Month, SUM(OQuantity) AS Num
        FROM ProductsInOrders INNER JOIN Orders
            ON ProductsInOrders.OID = Orders.OID
        GROUP BY ProductsInOrders.PName, YEAR(Order_date),
MONTH(Order_date)
    ) AS T1,

```

```

        (SELECT ProductsInOrders.Pname, YEAR(Order_date) AS Year,
MONTH(Order_date) as Month, SUM(OQuantity) AS Num
        FROM ProductsInOrders INNER JOIN Orders
            ON ProductsInOrders.OID = Orders.OID
        GROUP BY ProductsInOrders.PName, YEAR(Order_date),
MONTH(Order_date)
        ) AS T2,
        (SELECT ProductsInOrders.Pname, YEAR(Order_date) AS Year,
MONTH(Order_date) as Month, SUM(OQuantity) AS Num
        FROM ProductsInOrders INNER JOIN Orders
            ON ProductsInOrders.OID = Orders.OID
        GROUP BY ProductsInOrders.PName, YEAR(Order_date),
MONTH(Order_date)
        ) AS T3
--List out the constraints. We have three cases to consider about the
"consecutive months":
WHERE (T1.Pname = T2.Pname AND T2.Pname=T3.Pname)
    AND ((T1.Year=T2.Year AND T2.Year=T3.Year AND (T1.Month + 1 =
T2.Month) AND (T2.Month+1=T3.Month)) --1. three months in the same year
    OR (T1.Year=T2.Year-1 AND T2.Year=T3.Year AND T1.Month=12 AND
T2.Month=1 AND T3.Month=2) --2. First month in December the rest two in
the next year
    OR (T1.Year = T2.Year AND (T2.Year =T3.Year -1) AND T1.Month=11 AND
T2.Month = 12 AND T3.Month =1 )) --3. The first month and the second month
in the same year while the third in the next year
    AND (T1.Num < T2.Num AND T2.Num<T3.Num)

```

Data populated

ProductInOrders

```
Pname,OPID,OPrice,OQuantity,Delivery_date,Status,Sname,OID
Samsung Galaxy S10,4,969,6,NULL,shipped,Shop 5,45
Samsung Galaxy S10,4,969,9,NULL,returned,Shop 5,4
Samsung Galaxy S10,4,969,1,NULL,returned,Shop 5,153
Samsung Galaxy S10,4,969,5,2021-08-14
15:51:00.000,delivered,Shop 5,131
Samsung Galaxy S10,4,969,1,NULL,returned,Shop 5,123
Samsung Galaxy S10,4,969,2,NULL,shipped,Shop 5,38
Samsung Galaxy S10,4,969,3,2021-08-06
23:52:00.000,delivered,Shop 5,63
Samsung Galaxy S10,4,969,1,NULL,being processed,Shop 5,37
Samsung Galaxy S10,4,969,3,NULL,shipped,Shop 5,111
Samsung Galaxy S10,4,969,5,NULL,shipped,Shop 5,86
Samsung Galaxy S10,4,969,3,NULL,returned,Shop 5,11
Samsung Galaxy S10,4,969,2,2021-08-06
22:29:00.000,delivered,Shop 5,138
Samsung Galaxy S10,4,969,2,NULL,returned,Shop 5,97
Samsung Galaxy S10,4,969,7,NULL,returned,Shop 5,140
Samsung Galaxy S10,4,969,4,NULL,being processed,Shop 5,46
iPad Air,3,550,7,NULL,returned,Shop 3,45
iPad Air,3,550,7,NULL,returned,Shop 3,173
iPad Air,3,550,1,NULL,returned,Shop 3,156
iPad Air,3,550,9,2021-08-14 03:23:00.000,delivered,Shop 3,143
iPad Air,3,550,1,NULL,being processed,Shop 3,113
iPad Air,3,550,7,NULL,shipped,Shop 3,52
iPad Air,3,550,1,NULL,shipped,Shop 3,144
iPad Air,3,550,7,NULL,being processed,Shop 3,122
iPad Air,3,550,1,2021-06-27 05:03:00.000,delivered,Shop 3,196
iPad Air,3,550,4,NULL,shipped,Shop 3,66
iPad Air,3,550,3,NULL,returned,Shop 3,98
iPad Air,3,550,2,2021-07-06 14:55:00.000,delivered,Shop 3,13
iPhone 12,1,961,4,NULL,shipped,Shop 1,45
iPhone 12,1,961,1,NULL,being processed,Shop 1,166
iPhone 12,1,961,8,NULL,shipped,Shop 1,106
iPhone 12,1,961,3,2021-07-27 01:40:00.000,delivered,Shop 1,182
iPhone 12,1,961,3,2021-08-12 07:50:00.000,delivered,Shop 1,133
iPhone 12,1,961,4,NULL,returned,Shop 1,60
```

iPhone 12,1,961,5,NULL,being processed,Shop 1,187
iPhone 12,1,961,4,NULL,being processed,Shop 1,95
iPhone 12,1,961,8,NULL,being processed,Shop 1,167
iPhone 12,1,961,1,NULL,shipped,Shop 1,97
iPad Mini,10,866,3,NULL,returned,Shop 3,45
iPad Mini,10,866,7,2021-08-12 23:03:00.000,delivered,Shop 3,155
iPad Mini,10,866,5,2021-08-30 00:00:00.000,delivered,Shop 3,166
iPad Mini,10,866,4,NULL,being processed,Shop 3,6
iPad Mini,10,866,2,NULL,shipped,Shop 3,88
iPad Mini,10,866,3,NULL,returned,Shop 3,71
iPad Mini,10,866,7,NULL,being processed,Shop 3,126
iPad Mini,10,866,1,2021-08-15 00:00:00.000,delivered,Shop 3,180
iPad Mini,10,866,3,2021-07-04 12:58:00.000,delivered,Shop 3,5
iPad Mini,10,866,3,2021-07-24 08:17:00.000,delivered,Shop 3,186
Huawei P40,6,901,5,NULL,returned,Shop 1,4
Huawei P40,6,901,7,NULL,being processed,Shop 1,131
Huawei P40,6,901,5,2021-08-06 06:29:00.000,delivered,Shop 1,149
Huawei P40,6,901,2,NULL,returned,Shop 1,143
Huawei P40,6,901,7,NULL,shipped,Shop 1,67
Huawei P40,6,901,8,NULL,being processed,Shop 1,60
Huawei P40,6,901,9,NULL,shipped,Shop 1,38
Huawei P40,6,901,7,NULL,being processed,Shop 1,135
Huawei P40,6,901,3,2021-06-22 06:13:00.000,delivered,Shop 1,102
Huawei P40,6,901,7,NULL,returned,Shop 1,99
Huawei P40,6,901,5,NULL,returned,Shop 1,124
Huawei P40,6,901,2,NULL,returned,Shop 1,62
Huawei P50,11,880,8,2021-07-30 08:04:00.000,delivered,Shop 4,4
Huawei P50,11,880,5,NULL,shipped,Shop 4,153
Huawei P50,11,880,4,NULL,being processed,Shop 4,174
Huawei P50,11,880,2,2021-08-09 00:32:00.000,delivered,Shop 4,63
Huawei P50,11,880,5,NULL,shipped,Shop 4,124
Huawei P50,11,880,7,NULL,returned,Shop 4,13
iPhone 12,1,862,2,NULL,returned,Shop 4,4
iPhone 12,1,862,1,NULL,shipped,Shop 4,153
iPhone 12,1,862,8,2021-08-02 12:56:00.000,delivered,Shop 4,56
iPhone 12,1,862,6,NULL,shipped,Shop 4,67
iPhone 12,1,862,4,NULL,shipped,Shop 4,170
iPhone 12,1,862,3,NULL,shipped,Shop 4,37
iPhone 12,1,862,3,NULL,shipped,Shop 4,130
iPhone 12,1,862,2,2021-06-29 07:21:00.000,delivered,Shop 4,11
iPhone 12,1,862,3,2021-07-24 15:57:00.000,delivered,Shop 4,19

iPad Air,3,968,1,NULL,returned,Shop 2,4
iPad Air,3,968,8,2021-08-07 20:52:00.000,delivered,Shop 2,174
iPad Air,3,968,7,2021-08-21 00:00:00.000,delivered,Shop 2,91
iPad Air,3,968,4,2021-07-25 13:53:00.000,delivered,Shop 2,141
iPad Air,3,968,7,2021-08-08 05:29:00.000,delivered,Shop 2,79
iPad Air,3,968,8,2021-07-28 06:10:00.000,delivered,Shop 2,142
iPad Air,3,968,3,NULL,returned,Shop 2,87
iPad Air,3,968,2,2021-08-11 09:46:00.000,delivered,Shop 2,73
iPhone 12,5,981,1,NULL,returned,Shop 2,83
iPhone 12,5,981,4,2021-08-30 00:00:00.000,delivered,Shop 2,166
iPhone 12,5,981,8,2021-07-25 09:17:00.000,delivered,Shop 2,40
iPhone 12,5,981,2,NULL,shipped,Shop 2,154
iPhone 12,5,981,4,2021-07-26 09:41:00.000,delivered,Shop 2,141
iPhone 12,5,981,5,2021-07-24 01:16:00.000,delivered,Shop 2,112
iPhone 12,5,981,4,NULL,being processed,Shop 2,109
iPhone 12,5,981,2,NULL,being processed,Shop 2,138
iPhone 12,5,981,9,NULL,shipped,Shop 2,13
iPad Mini,10,559,3,NULL,returned,Shop 5,145
iPad Mini,10,559,7,NULL,being processed,Shop 5,198
iPad Mini,10,559,7,NULL,being processed,Shop 5,147
iPad Mini,10,559,3,2021-08-14 03:42:00.000,delivered,Shop 5,84
iPad Mini,10,559,9,NULL,returned,Shop 5,78
iPad Mini,10,559,2,NULL,returned,Shop 5,158
iPad Mini,10,559,5,NULL,being processed,Shop 5,105
iPad Mini,10,559,3,NULL,being processed,Shop 5,50
Huawei Mate 11,7,816,4,NULL,being processed,Shop 5,175
Huawei Mate 11,7,816,8,NULL,being processed,Shop 5,153
Huawei Mate 11,7,816,1,NULL,returned,Shop 5,2
Huawei Mate 11,7,816,5,2021-08-03 18:31:00.000,delivered,Shop 5,170
Huawei Mate 11,7,816,9,NULL,being processed,Shop 5,91
Huawei Mate 11,7,816,8,NULL,shipped,Shop 5,144
Huawei Mate 11,7,816,3,2021-06-25 10:29:00.000,delivered,Shop 5,167
Huawei Mate 11,7,816,7,NULL,being processed,Shop 5,134
Huawei Mate 11,7,816,2,2021-07-22 18:21:00.000,delivered,Shop 5,33
Huawei Mate 11,7,816,2,2021-07-31 14:23:00.000,delivered,Shop 5,86
Huawei Mate 11,7,816,3,NULL,being processed,Shop 5,115
Huawei Mate 11,7,816,5,NULL,returned,Shop 5,19

iPhone 12,5,953,6,NULL,shipped,Shop 5,175
iPhone 12,5,953,1,2021-08-04 16:42:00.000,delivered,Shop 5,104
iPhone 12,5,953,1,NULL,returned,Shop 5,123
iPhone 12,5,953,5,NULL,returned,Shop 5,36
iPhone 12,5,953,5,NULL,shipped,Shop 5,72
iPhone 12,5,953,7,2021-07-14 09:48:00.000,delivered,Shop 5,44
iPhone 12,5,953,9,NULL,being processed,Shop 5,130
iPhone 12,5,953,5,2021-07-30 14:40:00.000,delivered,Shop 5,11
iPhone 12,5,953,5,NULL,shipped,Shop 5,66
iPhone 12,1,527,8,NULL,returned,Shop 2,175
iPhone 12,1,527,1,NULL,being processed,Shop 2,72
iPhone 12,1,527,6,NULL,shipped,Shop 2,158
iPhone 12,1,527,5,2021-08-20 00:00:00.000,delivered,Shop 2,41
iPhone 12,1,527,6,NULL,shipped,Shop 2,46
iPad Air,3,737,2,NULL,shipped,Shop 5,103
iPad Air,3,737,4,NULL,returned,Shop 5,132
iPad Air,3,737,2,NULL,being processed,Shop 5,56
iPad Air,3,737,9,2021-08-12 16:02:00.000,delivered,Shop 5,171
iPad Air,3,737,7,NULL,shipped,Shop 5,60
iPad Air,3,737,6,NULL,being processed,Shop 5,64
iPad Air,3,737,7,NULL,shipped,Shop 5,135
iPad Air,3,737,4,2021-08-20 00:00:00.000,delivered,Shop 5,41
iPad Air,3,737,3,2021-08-08 08:12:00.000,delivered,Shop 5,86
Huawei P30,2,649,2,NULL,shipped,Shop 4,103
Huawei P30,2,649,6,NULL,being processed,Shop 4,199
Huawei P30,2,649,4,NULL,returned,Shop 4,137
Huawei P30,2,649,7,NULL,returned,Shop 4,177
Huawei P30,2,649,8,NULL,returned,Shop 4,9
Huawei P30,2,649,7,NULL,being processed,Shop 4,126
Huawei P30,2,649,1,NULL,returned,Shop 4,5
Huawei P30,2,649,6,NULL,being processed,Shop 4,178
Huawei P30,2,649,5,2021-08-02 09:38:00.000,delivered,Shop 4,19
Huawei P30,2,649,3,2021-08-14 20:16:00.000,delivered,Shop 4,186
Huawei P30,2,649,7,NULL,shipped,Shop 4,127
Huawei P40,6,574,7,NULL,being processed,Shop 5,153
Huawei P40,6,574,7,2021-08-09 03:32:00.000,delivered,Shop 5,106
Huawei P40,6,574,6,2021-07-24 06:46:00.000,delivered,Shop 5,182
Huawei P40,6,574,9,2021-07-04 17:19:00.000,delivered,Shop 5,24
Huawei P40,6,574,7,NULL,returned,Shop 5,91
Huawei P40,6,574,6,2021-07-09 01:19:00.000,delivered,Shop 5,12
Huawei P40,6,574,5,NULL,returned,Shop 5,20

Huawei P40,6,574,1,NULL,returned,Shop 5,34
Huawei P40,6,574,4,NULL,shipped,Shop 5,30
iPhone 12,1,790,3,NULL,shipped,Shop 5,25
iPhone 12,1,790,2,NULL,returned,Shop 5,114
iPhone 12,1,790,8,2021-07-31 16:33:00.000,delivered,Shop 5,125
iPhone 12,1,790,5,NULL,being processed,Shop 5,109
iPhone 12,1,790,9,2021-08-05 13:47:00.000,delivered,Shop 5,85
Samsung Galaxy S20,8,994,6,NULL,returned,Shop 2,174
Samsung Galaxy S20,8,994,1,NULL,being processed,Shop 2,31
Samsung Galaxy S20,8,994,4,NULL,returned,Shop 2,149
Samsung Galaxy S20,8,994,8,NULL,being processed,Shop 2,80
Samsung Galaxy S20,8,994,6,NULL,being processed,Shop 2,119
Samsung Galaxy S20,8,994,6,2021-08-09
01:20:00.000,delivered,Shop 2,84
Samsung Galaxy S20,8,994,1,NULL,returned,Shop 2,2
Samsung Galaxy S20,8,994,6,NULL,being processed,Shop 2,36
Samsung Galaxy S20,8,994,6,NULL,being processed,Shop 2,24
Samsung Galaxy S20,8,994,5,2021-07-26
09:00:00.000,delivered,Shop 2,42
Samsung Galaxy S20,8,994,4,2021-08-14
06:50:00.000,delivered,Shop 2,134
Samsung Galaxy S20,8,994,2,NULL,shipped,Shop 2,30
Samsung Galaxy S20,8,994,7,2021-07-03
19:16:00.000,delivered,Shop 2,127
Huawei P30,2,780,5,NULL,being processed,Shop 1,174
Huawei P30,2,780,3,2021-08-26 00:00:00.000,delivered,Shop 1,132
Huawei P30,2,780,5,2021-08-14 23:21:00.000,delivered,Shop 1,143
Huawei P30,2,780,3,NULL,being processed,Shop 1,2
Huawei P30,2,780,2,2021-06-27 09:35:00.000,delivered,Shop 1,6
Huawei P30,2,780,8,NULL,returned,Shop 1,64
Huawei P30,2,780,5,NULL,shipped,Shop 1,72
Huawei P30,2,780,6,NULL,being processed,Shop 1,42
Huawei Mate 11,7,740,9,NULL,shipped,Shop 3,174
Huawei Mate 11,7,740,4,NULL,being processed,Shop 3,114
Huawei Mate 11,7,740,6,NULL,being processed,Shop 3,143
Huawei Mate 11,7,740,5,NULL,being processed,Shop 3,125
Huawei Mate 11,7,740,2,NULL,being processed,Shop 3,146
Huawei Mate 11,7,740,1,NULL,shipped,Shop 3,36
Huawei Mate 11,7,740,7,2021-07-18 17:09:00.000,delivered,Shop
3,6

Huawei Mate 11,7,740,4,2021-07-26 00:39:00.000,delivered,Shop 3,90
Huawei Mate 11,7,740,6,NULL,shipped,Shop 3,130
Huawei Mate 11,7,740,2,NULL,shipped,Shop 3,20
Huawei Mate 11,7,740,2,NULL,shipped,Shop 3,138
Samsung Galaxy S10,4,924,5,NULL,returned,Shop 1,161
Samsung Galaxy S10,4,924,6,2021-08-15
00:00:00.000,delivered,Shop 1,198
Samsung Galaxy S10,4,924,1,NULL,returned,Shop 1,133
Samsung Galaxy S10,4,924,9,NULL,shipped,Shop 1,18
Samsung Galaxy S10,4,924,4,NULL,returned,Shop 1,102
Samsung Galaxy S10,4,924,8,2021-08-25
00:00:00.000,delivered,Shop 1,110
Samsung Galaxy S10,4,924,8,NULL,returned,Shop 1,90
Samsung Galaxy S10,4,924,6,2021-06-20
02:06:00.000,delivered,Shop 1,30
Samsung Galaxy S10,4,924,1,2021-08-14
14:04:00.000,delivered,Shop 1,87
Samsung Galaxy S10,4,924,7,NULL,being processed,Shop 1,69
Huawei P30,2,879,7,NULL,shipped,Shop 5,193
Huawei P30,2,879,3,NULL,returned,Shop 5,156
Huawei P30,2,879,4,NULL,shipped,Shop 5,147
Huawei P30,2,879,1,NULL,shipped,Shop 5,104
Huawei P30,2,879,7,NULL,being processed,Shop 5,78
Huawei P30,2,879,1,2021-08-12 01:17:00.000,delivered,Shop 5,130
Huawei P30,2,879,4,NULL,being processed,Shop 5,74
Huawei P30,2,879,1,2021-06-13 09:18:00.000,delivered,Shop 5,33
Huawei P30,2,879,8,NULL,being processed,Shop 5,12
Huawei P30,2,879,3,2021-07-07 20:40:00.000,delivered,Shop 5,86
Huawei P30,2,879,8,NULL,being processed,Shop 5,30
Huawei P30,2,879,9,NULL,shipped,Shop 5,188
Samsung Galaxy S10,4,546,6,2021-08-25
00:00:00.000,delivered,Shop 4,31
Samsung Galaxy S10,4,546,9,NULL,returned,Shop 4,160
Samsung Galaxy S10,4,546,9,NULL,returned,Shop 4,173
Samsung Galaxy S10,4,546,7,NULL,returned,Shop 4,181
Samsung Galaxy S10,4,546,5,NULL,shipped,Shop 4,176
Samsung Galaxy S10,4,546,9,2021-08-05
16:15:00.000,delivered,Shop 4,196
Samsung Galaxy S10,4,546,9,NULL,shipped,Shop 4,8
Samsung Galaxy S10,4,546,7,NULL,shipped,Shop 4,85

Samsung Galaxy S10,4,546,3,NULL,returned,Shop 4,124
iPad Air,3,683,8,NULL,shipped,Shop 1,198
iPad Air,3,683,5,2021-06-23 07:13:00.000,delivered,Shop 1,185
iPad Air,3,683,7,2021-08-23 00:00:00.000,delivered,Shop 1,8
iPad Air,3,683,1,NULL,returned,Shop 1,109
iPad Air,3,683,9,NULL,being processed,Shop 1,130
iPad Air,3,683,9,NULL,returned,Shop 1,105
iPad Air,3,683,3,NULL,being processed,Shop 1,50
iPad Air,3,683,7,2021-07-04 11:10:00.000,delivered,Shop 1,27
Samsung Galaxy S10,4,619,3,NULL,being processed,Shop 2,166
Samsung Galaxy S10,4,619,8,NULL,being processed,Shop 2,6
Samsung Galaxy S10,4,619,7,NULL,being processed,Shop 2,79
Samsung Galaxy S10,4,619,2,2021-08-04
10:49:00.000,delivered,Shop 2,28
Samsung Galaxy S10,4,619,4,NULL,being processed,Shop 2,17
Samsung Galaxy S10,4,619,3,NULL,being processed,Shop 2,109
Samsung Galaxy S10,4,619,5,NULL,being processed,Shop 2,34
Samsung Galaxy S10,4,619,7,NULL,returned,Shop 2,98
iPad Mini,10,763,4,NULL,being processed,Shop 4,132
iPad Mini,10,763,2,NULL,being processed,Shop 4,56
iPad Mini,10,763,1,NULL,being processed,Shop 4,171
iPad Mini,10,763,3,2021-08-12 18:43:00.000,delivered,Shop 4,154
iPad Mini,10,763,2,2021-07-19 22:09:00.000,delivered,Shop 4,34
iPad Mini,10,763,4,NULL,shipped,Shop 4,11
iPad Mini,10,763,6,NULL,shipped,Shop 4,190
iPad Mini,10,763,4,NULL,shipped,Shop 4,73
iPhone XS,9,895,4,NULL,shipped,Shop 3,131
iPhone XS,9,895,3,NULL,shipped,Shop 3,173
iPhone XS,9,895,8,NULL,being processed,Shop 3,122
iPhone XS,9,895,8,NULL,shipped,Shop 3,78
iPhone XS,9,895,5,2021-08-14 20:34:00.000,delivered,Shop 3,126
iPhone XS,9,895,6,NULL,being processed,Shop 3,41
iPhone XS,9,895,2,NULL,shipped,Shop 3,33
iPhone XS,9,895,4,NULL,shipped,Shop 3,65
iPhone XS,9,895,1,NULL,being processed,Shop 3,124
Samsung Galaxy S20,8,662,6,NULL,being processed,Shop 3,131
Samsung Galaxy S20,8,662,8,2021-06-27
00:50:00.000,delivered,Shop 3,199
Samsung Galaxy S20,8,662,9,2021-07-13
12:24:00.000,delivered,Shop 3,125
Samsung Galaxy S20,8,662,2,NULL,being processed,Shop 3,56

Samsung Galaxy S20,8,662,8,NULL,returned,Shop 3,108
Samsung Galaxy S20,8,662,5,NULL,being processed,Shop 3,171
Samsung Galaxy S20,8,662,9,NULL,returned,Shop 3,187
Samsung Galaxy S20,8,662,1,2021-08-11
23:14:00.000,delivered,Shop 3,102
Samsung Galaxy S20,8,662,8,NULL,shipped,Shop 3,110
Samsung Galaxy S20,8,662,4,NULL,returned,Shop 3,37
Samsung Galaxy S20,8,662,8,NULL,returned,Shop 3,9
Samsung Galaxy S20,8,662,4,NULL,being processed,Shop 3,163
Samsung Galaxy S20,8,662,8,2021-08-14
04:26:00.000,delivered,Shop 3,139
Samsung Galaxy S20,8,662,8,2021-08-08
15:51:00.000,delivered,Shop 3,55
Samsung Galaxy S20,8,662,9,NULL,being processed,Shop 3,73
iPad Air,3,865,1,NULL,being processed,Shop 4,149
iPad Air,3,865,7,NULL,returned,Shop 4,125
iPad Air,3,865,8,NULL,returned,Shop 4,176
iPad Air,3,865,3,NULL,being processed,Shop 4,182
iPad Air,3,865,2,2021-07-26 04:54:00.000,delivered,Shop 4,195
iPad Air,3,865,3,NULL,returned,Shop 4,96
iPad Air,3,865,7,NULL,returned,Shop 4,15
iPad Air,3,865,1,2021-07-01 12:08:00.000,delivered,Shop 4,42
iPad Air,3,865,2,NULL,being processed,Shop 4,126
iPad Air,3,865,5,NULL,being processed,Shop 4,118
iPad Air,3,865,4,2021-08-05 14:21:00.000,delivered,Shop 4,62
iPad Air,3,865,6,2021-07-04 12:40:00.000,delivered,Shop 4,188
Samsung Galaxy S20,8,728,3,NULL,returned,Shop 1,114
Samsung Galaxy S20,8,728,2,2021-07-21
07:31:00.000,delivered,Shop 1,117
Samsung Galaxy S20,8,728,6,2021-07-22
08:49:00.000,delivered,Shop 1,104
Samsung Galaxy S20,8,728,4,NULL,being processed,Shop 1,137
Samsung Galaxy S20,8,728,1,2021-08-08
12:53:00.000,delivered,Shop 1,18
Samsung Galaxy S20,8,728,7,2021-08-07
06:26:00.000,delivered,Shop 1,88
Samsung Galaxy S20,8,728,2,NULL,shipped,Shop 1,99
Samsung Galaxy S20,8,728,2,NULL,shipped,Shop 1,192
Samsung Galaxy S20,8,728,2,NULL,returned,Shop 1,87
Samsung Galaxy S20,8,728,8,NULL,being processed,Shop 1,178
Samsung Galaxy S20,8,728,5,NULL,returned,Shop 1,62

Samsung Galaxy S20,8,728,6,NULL,shipped,Shop 1,27
iPhone 12,1,735,3,2021-08-09 12:03:00.000,delivered,Shop 3,156
iPhone 12,1,735,1,NULL,being processed,Shop 3,92
iPhone 12,1,735,1,NULL,being processed,Shop 3,108
iPhone 12,1,735,6,NULL,shipped,Shop 3,183
iPhone 12,1,735,6,NULL,returned,Shop 3,71
iPhone 12,1,735,8,NULL,returned,Shop 3,177
iPhone 12,1,735,2,NULL,returned,Shop 3,63
iPhone 12,1,735,4,NULL,shipped,Shop 3,139
iPhone 12,1,735,7,NULL,shipped,Shop 3,5
iPhone 12,1,735,7,2021-08-12 06:32:00.000,delivered,Shop 3,73
iPhone XS,9,647,8,NULL,returned,Shop 4,156
iPhone XS,9,647,6,NULL,being processed,Shop 4,181
iPhone XS,9,647,7,2021-08-09 15:26:00.000,delivered,Shop 4,106
iPhone XS,9,647,5,NULL,being processed,Shop 4,84
iPhone XS,9,647,9,NULL,returned,Shop 4,123
iPhone XS,9,647,9,2021-07-02 18:54:00.000,delivered,Shop 4,137
iPhone XS,9,647,4,NULL,returned,Shop 4,95
iPhone XS,9,647,3,NULL,returned,Shop 4,144
iPhone XS,9,647,7,2021-07-18 19:56:00.000,delivered,Shop 4,71
iPhone XS,9,647,9,2021-06-26 23:39:00.000,delivered,Shop 4,167
iPhone XS,9,647,5,NULL,returned,Shop 4,15
iPhone XS,9,647,4,2021-08-03 11:25:00.000,delivered,Shop 4,37
iPhone XS,9,647,1,NULL,shipped,Shop 4,19
iPhone XS,9,647,5,NULL,being processed,Shop 4,46
iPhone 12,5,952,9,NULL,shipped,Shop 4,150
iPhone 12,5,952,3,2021-08-12 03:16:00.000,delivered,Shop 4,29
iPhone 12,5,952,4,2021-08-03 10:33:00.000,delivered,Shop 4,60
iPhone 12,5,952,4,2021-07-25 13:56:00.000,delivered,Shop 4,64
iPhone 12,5,952,5,NULL,being processed,Shop 4,102
iPhone 12,5,952,9,NULL,returned,Shop 4,9
iPhone 12,5,952,8,2021-08-20 00:00:00.000,delivered,Shop 4,41
iPhone 12,5,952,3,NULL,returned,Shop 4,33
iPhone XS,9,962,6,NULL,being processed,Shop 2,143
iPhone XS,9,962,8,NULL,returned,Shop 2,113
iPhone XS,9,962,5,NULL,returned,Shop 2,133
iPhone XS,9,962,4,NULL,being processed,Shop 2,121
iPhone XS,9,962,5,NULL,returned,Shop 2,185
iPhone XS,9,962,6,NULL,being processed,Shop 2,164
iPhone XS,9,962,4,2021-07-13 05:14:00.000,delivered,Shop 2,196
iPhone XS,9,962,4,NULL,returned,Shop 2,5

iPad Mini,10,942,9,NULL,shipped,Shop 2,199
iPad Mini,10,942,4,NULL,returned,Shop 2,176
iPad Mini,10,942,3,2021-06-24 07:31:00.000,delivered,Shop 2,151
Huawei P50,11,827,6,NULL,being processed,Shop 5,125
Huawei P50,11,827,9,NULL,shipped,Shop 5,154
Huawei P50,11,827,6,2021-08-25 00:00:00.000,delivered,Shop 5,110
Huawei P50,11,827,6,2021-07-28 08:53:00.000,delivered,Shop 5,44
Huawei P50,11,827,8,NULL,being processed,Shop 5,192
Huawei P30,2,661,4,2021-08-19 00:00:00.000,delivered,Shop 2,181
Huawei P30,2,661,7,2021-07-20 13:02:00.000,delivered,Shop 2,108
Huawei P30,2,661,6,NULL,shipped,Shop 2,91
Huawei P30,2,661,5,2021-08-02 17:18:00.000,delivered,Shop 2,195
Huawei P30,2,661,1,2021-06-24 18:42:00.000,delivered,Shop 2,102
Huawei P30,2,661,4,NULL,returned,Shop 2,8
Huawei P30,2,661,4,2021-08-01 12:36:00.000,delivered,Shop 2,158
Huawei P30,2,661,8,NULL,shipped,Shop 2,180
Huawei P30,2,661,6,NULL,returned,Shop 2,139
Huawei Mate 11,7,513,7,NULL,returned,Shop 4,181
Huawei Mate 11,7,513,2,NULL,shipped,Shop 4,117
Huawei Mate 11,7,513,2,NULL,shipped,Shop 4,108
Huawei Mate 11,7,513,3,NULL,returned,Shop 4,34
Huawei Mate 11,7,513,5,NULL,returned,Shop 4,139
Huawei Mate 11,7,513,3,NULL,returned,Shop 4,98
Huawei Mate 11,7,513,8,NULL,being processed,Shop 4,62
Huawei P30,2,888,5,NULL,shipped,Shop 3,29
Huawei P30,2,888,2,NULL,being processed,Shop 3,18
Huawei P30,2,888,2,2021-07-26 00:16:00.000,delivered,Shop 3,37
Huawei P30,2,888,4,NULL,shipped,Shop 3,43
Huawei P30,2,888,4,NULL,shipped,Shop 3,118
Huawei P30,2,888,2,2021-08-09 07:47:00.000,delivered,Shop 3,163
Huawei P30,2,888,7,NULL,being processed,Shop 3,87
Huawei P40,6,930,3,NULL,shipped,Shop 3,176
Huawei P40,6,930,8,NULL,shipped,Shop 3,84
Huawei P40,6,930,9,2021-07-27 11:19:00.000,delivered,Shop 3,108
Huawei P40,6,930,2,NULL,being processed,Shop 3,2
Huawei P40,6,930,7,NULL,being processed,Shop 3,88
Huawei P40,6,930,8,2021-07-30 11:17:00.000,delivered,Shop 3,167
Huawei P40,6,930,2,NULL,being processed,Shop 3,177
Huawei P40,6,930,3,NULL,being processed,Shop 3,185
Huawei P40,6,930,3,NULL,being processed,Shop 3,49
Huawei P40,6,930,5,NULL,shipped,Shop 3,28

Samsung Galaxy S10,4,715,8,2021-08-05
10:14:00.000,delivered,Shop 3,92
Samsung Galaxy S10,4,715,6,NULL,being processed,Shop 3,88
Samsung Galaxy S10,4,715,8,NULL,shipped,Shop 3,91
Samsung Galaxy S10,4,715,8,NULL,being processed,Shop 3,144
Samsung Galaxy S10,4,715,2,2021-07-21
06:01:00.000,delivered,Shop 3,177
Samsung Galaxy S10,4,715,5,NULL,shipped,Shop 3,142
Samsung Galaxy S10,4,715,7,NULL,being processed,Shop 3,186
Huawei P40,6,920,4,NULL,being processed,Shop 4,113
Huawei P40,6,920,3,NULL,being processed,Shop 4,184
Huawei P40,6,920,7,NULL,shipped,Shop 4,64
Huawei P40,6,920,3,2021-07-11 02:32:00.000,delivered,Shop 4,151
Huawei P40,6,920,4,NULL,being processed,Shop 4,55
Huawei P40,6,920,1,NULL,returned,Shop 4,27
iPhone 12,5,663,4,NULL,being processed,Shop 3,106
iPhone 12,5,663,3,NULL,being processed,Shop 3,171
iPhone 12,5,663,9,NULL,shipped,Shop 3,24
iPhone 12,5,663,1,NULL,being processed,Shop 3,144
iPhone 12,5,663,5,NULL,shipped,Shop 3,135
iPhone 12,5,663,1,2021-07-26 11:13:00.000,delivered,Shop 3,71
iPhone 12,5,663,1,NULL,shipped,Shop 3,110
iPhone 12,5,663,3,NULL,returned,Shop 3,118
iPhone 12,5,663,4,2021-08-14 10:39:00.000,delivered,Shop 3,98
Samsung Galaxy S20,8,646,4,NULL,returned,Shop 4,106
Samsung Galaxy S20,8,646,7,NULL,being processed,Shop 4,167
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Samsung Galaxy S20,8,646,6,NULL,shipped,Shop 4,185
Samsung Galaxy S20,8,646,8,NULL,returned,Shop 4,72
Samsung Galaxy S20,8,646,8,2021-07-31
16:15:00.000,delivered,Shop 4,109
Samsung Galaxy S20,8,646,5,NULL,being processed,Shop 4,118
Samsung Galaxy S20,8,646,9,NULL,returned,Shop 4,152
Samsung Galaxy S20,8,646,9,NULL,returned,Shop 4,13
Huawei P40,6,969,8,NULL,shipped,Shop 2,104
Huawei P40,6,969,8,NULL,returned,Shop 2,137
Huawei P40,6,969,3,NULL,shipped,Shop 2,71
Huawei P40,6,969,7,NULL,shipped,Shop 2,33
Huawei P40,6,969,3,NULL,being processed,Shop 2,139
Huawei Mate 11,7,694,6,NULL,being processed,Shop 1,104

Huawei Mate 11,7,694,6,NULL,shipped,Shop 1,172
Huawei Mate 11,7,694,1,2021-08-12 22:07:00.000,delivered,Shop 1,154
Huawei Mate 11,7,694,5,NULL,being processed,Shop 1,96
Huawei Mate 11,7,694,4,2021-08-12 03:39:00.000,delivered,Shop 1,79
iPhone XS,9,723,4,NULL,being processed,Shop 5,2
iPhone XS,9,723,7,NULL,shipped,Shop 5,187
iPhone XS,9,723,4,NULL,shipped,Shop 5,24
iPhone XS,9,723,2,NULL,returned,Shop 5,177
iPhone XS,9,723,1,NULL,shipped,Shop 5,169
iPhone XS,9,723,3,NULL,being processed,Shop 5,111
iPhone XS,9,723,7,NULL,being processed,Shop 5,34
iPhone XS,9,723,9,NULL,shipped,Shop 5,73
Samsung Galaxy S20,8,900,1,NULL,shipped,Shop 5,133
Samsung Galaxy S20,8,900,5,NULL,returned,Shop 5,38
Samsung Galaxy S20,8,900,8,NULL,being processed,Shop 5,122
Samsung Galaxy S20,8,900,1,NULL,returned,Shop 5,136
Samsung Galaxy S20,8,900,2,NULL,shipped,Shop 5,97
Samsung Galaxy S20,8,900,8,NULL,shipped,Shop 5,140
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Huawei Mate 11,7,780,8,2021-07-01 21:27:00.000,delivered,Shop 2,24
Huawei Mate 11,7,780,5,2021-08-01 03:02:00.000,delivered,Shop 2,95
Huawei Mate 11,7,780,1,NULL,being processed,Shop 2,72
Huawei Mate 11,7,780,5,NULL,shipped,Shop 2,55
iPhone 12,5,751,3,NULL,returned,Shop 1,122
iPhone 12,5,751,1,NULL,being processed,Shop 1,63

ProductsInShops

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Pname, Maker, Category, SPID, SPrice, Squantity, Sname
Huawei Mate 11, Huawei, Tablet, 0, 820, 2238, Shop 1
Huawei Mate 11, Huawei, Tablet, 0, 853, 2570, Shop 2
Huawei Mate 11, Huawei, Tablet, 0, 863, 1154, Shop 3
Huawei Mate 11, Huawei, Tablet, 0, 944, 2302, Shop 4
Huawei Mate 11, Huawei, Tablet, 0, 732, 2844, Shop 5
iPhone 12, Apple, Phone, 1, 961, 2563, Shop 1
iPhone 12, Apple, Phone, 1, 527, 1965, Shop 2
iPhone 12, Apple, Phone, 1, 735, 2297, Shop 3
iPhone 12, Apple, Phone, 1, 862, 2209, Shop 4
iPhone 12, Apple, Phone, 1, 790, 1738, Shop 5
Huawei P30, Huawei, Phone, 2, 780, 2326, Shop 1
Huawei P30, Huawei, Phone, 2, 661, 2820, Shop 2
Huawei P30, Huawei, Phone, 2, 888, 1929, Shop 3
Huawei P30, Huawei, Phone, 2, 649, 2536, Shop 4
Huawei P30, Huawei, Phone, 2, 879, 1749, Shop 5
iPad Air, Apple, Tablet, 3, 683, 1256, Shop 1
iPad Air, Apple, Tablet, 3, 968, 2426, Shop 2
iPad Air, Apple, Tablet, 3, 550, 1928, Shop 3
iPad Air, Apple, Tablet, 3, 865, 1008, Shop 4
iPad Air, Apple, Tablet, 3, 737, 1752, Shop 5
Samsung Galaxy S10, Samsung, Phone, 4, 924, 2505, Shop 1
Samsung Galaxy S10, Samsung, Phone, 4, 619, 2712, Shop 2
Samsung Galaxy S10, Samsung, Phone, 4, 715, 2644, Shop 3
Samsung Galaxy S10, Samsung, Phone, 4, 546, 1177, Shop 4
Samsung Galaxy S10, Samsung, Phone, 4, 969, 1590, Shop 5
iPhone 12, Apple, Phone, 5, 751, 1015, Shop 1
iPhone 12, Apple, Phone, 5, 981, 1313, Shop 2
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Huawei P30, Huawei, Phone

iPad Air, Apple, Tablet

Samsung Galaxy S10, Samsung, Phone

Huawei P40, Huawei, Phone

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Feedback

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253,iPhone 12,97,2021-08-29 02:56:03.000,4,NULL
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256,iPad Air,31,2021-08-29 16:46:49.000,5,Fast delivery
257,iPad Air,45,2021-08-22 04:13:42.000,5,NULL
258,iPad Air,57,2021-08-19 20:51:08.000,5,Slow delivery
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261,Samsung Galaxy S10,55,2021-08-16 04:28:23.000,3,NULL
262,Samsung Galaxy S10,83,2021-08-27 15:46:24.000,5,Slow delivery
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264,iPhone 12,21,2021-08-24 08:22:14.000,5,NULL
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266,iPhone 12,79,2021-08-25 00:28:05.000,5,Great product!
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269,iPhone 12,91,2021-08-28 01:08:58.000,5,Slow delivery
270,iPad Mini,21,2021-08-19 07:22:12.000,5,Slow delivery
271,iPad Mini,53,2021-08-18 11:55:32.000,5,Fast delivery
272,iPad Mini,71,2021-08-28 08:36:48.000,5,Fast delivery
273,iPad Mini,93,2021-08-18 06:07:24.000,5,Fast delivery
274,Huawei Mate 11,21,2021-08-26 08:31:32.000,3,Great product!
275,Huawei Mate 11,27,2021-08-22 10:43:20.000,2,Great product!
276,Huawei Mate 11,39,2021-08-22 15:15:54.000,5,NULL
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298,iPhone XS,45,2021-08-17 02:52:43.000,5,Fast delivery
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307,iPhone XS,83,2021-08-17 23:31:11.000,4,Slow delivery
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321,Samsung Galaxy S10,85,2021-08-24 07:23:10.000,5,Slow delivery
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328,Huawei P30,93,2021-08-18 16:52:29.000,5,Fast delivery
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344,Samsung Galaxy S10,85,2021-08-22 03:35:30.000,5,Great
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93,11

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75,12
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79,4
82,4
84,4
91,4
96,4
98,4

ComplaintsOnShops

CID,Sname

25,Shop 3

0,Shop 3

10,Shop 4

14,Shop 2

14,Shop 2

45,Shop 2

48,Shop 1

1,Shop 2

18,Shop 3

22,Shop 3

Shops

Sname

Shop 1

Shop 2

Shop 3

Shop 4

Shop 5

PriceRecord

Pname,Start_date,End_date,Price

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Employees

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3,C,5600

4,D,3100

5,E,2800

6,F,7300

7,G,8900

8,H,7800

9,I,3100

10,J,3600

11,K,9600

12,L,6800

13,M,5700

14,N,5300

15,O,5700

16,P,9400

17,Q,2800

18,R,7100

19,S,5100

20,T,3700

21,U,5300

22,V,4000

23,W,4600

24,X,9800

25,Y,9900

26,Z,6700

27,AA,8600

28,AB,7400

29,AC,3100

30,AD,2800

31,AE,6100

32,AF,7300

33,AG,3000

34,AH,2700

35,AI,5200

36,AJ,7700

37,AK,9100

38,AL,7200

39,AM,8600

40,AN,8500
41,AO,5900
42,AP,2700
43,AQ,7600
44,AR,9300
45,AS,7000
46,AT,5700
47,AU,6500
48,AV,7300
49,AW,6800
50,AX,9700

Appendix

Assumptions

SPID in ProductsInShops and OPID in ProductsInOrders are assumed to be the same so that when a user places an order, the shop of the product can be traced.

We also assumed the periods within the data generated is from June 2021 to August 2021. This includes the PriceRecord Start-date and End-date, Order-date-time and other dates and times.



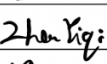


Additional effort

We used python libraries such as pandas, faker, numpy to generate the data such that all the constraints are satisfied. The data are generated to be as realistic as possible to imitate a real Shiokee database.

The products that are generated will map to the correct category and company. For example, iPad realistically should be under the 'tablet' category and is manufactured by Apple.

The dates and times in different tables are constrained such that no events conflict with each other. As an illustration, Order-date-time should come before the Deliver-date-time and Deliver-date-time should be 'None' if the product is not delivered yet. Similarly, the Handled-date-time for complaints should not come before Filed-date-time. Also, the users who gave any feedback must have placed an order.

Appendix C: Individual contribution form

Name	Individual Contribution to Submission 3 (Lab 5)	Percentage of Contribution	Signature
CHAN JOSHUA JUAN YIN	write SQL query populate table	16.7	
Huang Wei	SQL Query Populate Table	16.7	
Zhou Yiqi	SQL Query, Populate table	16.7	
Khor Sze Chong	SQL Query, Populate Table	16.7	
Chen Peihon	SQL Query, Populate Table	16.7	
Tang Yi Quan	SQL Query, populate table	16.7	