Dastgyr Technologies

Data Analysis Case Study

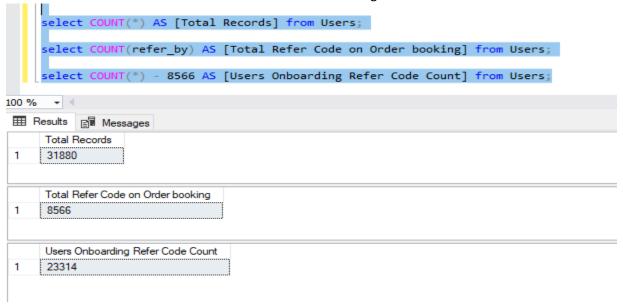
Q1.

Ans: **Approach:**

Order booking and onboarding process are two different things because order booking generates the revenue and also defines our agent performance while onboarding process is how much the retailers onboard through sales agent. For leading the team in both I have used performance metrics. We make 5 groups for onboarding and order booking. We select the leader of team based on how much people used his referral code.

First we will check how many number of refer code used in order booking and onboarding process.

1. Check count of users uses refer code on order and onboarding refer code count.



There are total **31,880** records out of which **8,566 user** uses refer code on order booking and **23,324 user** uses refer code on onboarding process.

Note: Count function not include null values when counting total records.

2. Make 5 teams By joining two tables users and orders

```
CREATE VIEW Orderbooking

AS

SELECT Users.users_id, Users.name, Users.created_at, Users.refer_by, Users.refer_at, Users.ref_code

FROM Orders

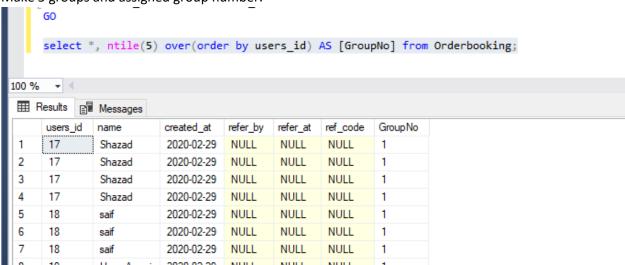
INNER JOIN Users

ON Users.users_id = Orders.users_id;

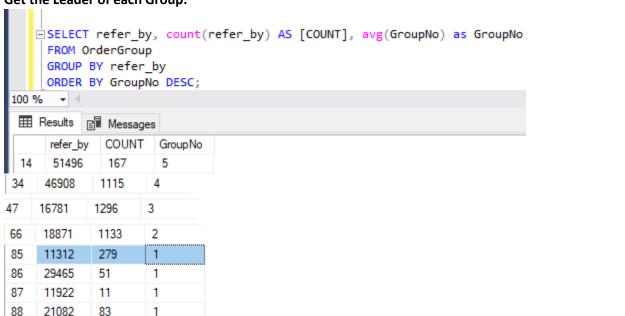
GO

select * from Orderbooking;
```

Make 5 groups and assigned group number.



3. Get the Leader of each Group:



```
Refer – By sales agent Id
Count – Total count where sales agent id appears.
Group No – Each Group Number
```

These are each group's top sales representatives. Most clients use these agent referral codes to place their orders.

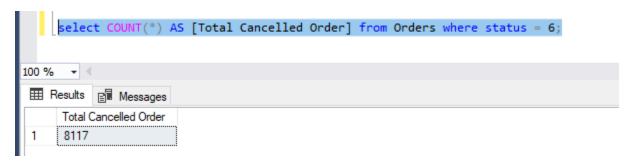
Q2.

Ans: Orders get cancelled after they are dispatched:

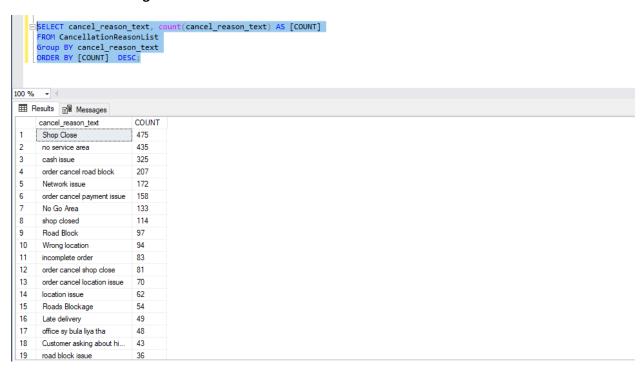
After create the table, first we will analyze the total number of cancelled order. So the total number of cancelled order count is **8117.** After that we have to find out the issue of order cancellation.

```
create table CancellationReasonList(
     order id int not null,
     cancellation reason id int,
     cancel_reason_text VARCHAR(100),
   BULK INSERT CancellationReasonList
     FROM 'E:\Dastgyr\Data\Cancellation_Reasons_List.csv'
     WITH (
         FIRSTROW = 2,
         FIELDTERMINATOR = ',',
         ROWTERMINATOR = '\n'
     GO
     select * from CancellationReasonList;
100 % ▼ ◀
Results 📳 Messages
     order_id cancellation_reason_id
                               cancel_reason_text
     188424 60
                                NULL
     188420 59
 2
                                NULL
 3
     188401 51
                                NULL
     188401
                                NULL
 4
             53
 5
     188396
             53
                                NULL
 6
     188367 30
                                NULL
 7
     188366 30
                                NULL
 8
     188364
             55
                                NULL
 9
     188354
              49
                                NULL
     100054 50
                                KILILI
```

Total Cancelled Orders:



Reasons For Cancelling the Orders:



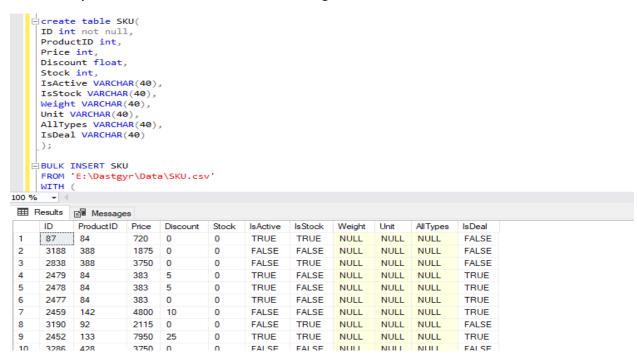
Cancel reason text - Reason why order is cancelled

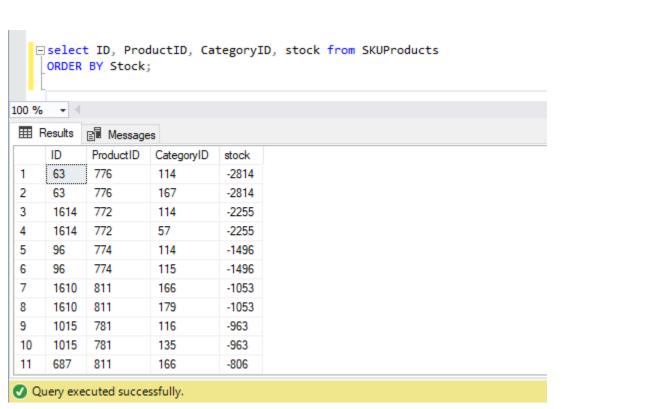
Count – Number of customers faced this issue.

You can bring this down by defining each shop opening and closing timing, indicate that service is not available, estimated delivery time for road block issue and etc. For payment issue there are multiple strategies like online payment integration or advanced payment.

Q3.

Ans. Incomplete orders due to some SKUs not being in stock:





First we have joined the SKU and product categories table. After combining, the table is sorted in order of most frequent purchases. In the image above, we will see the category ID that we have to keep in our stock and address it to the relevant category manager.