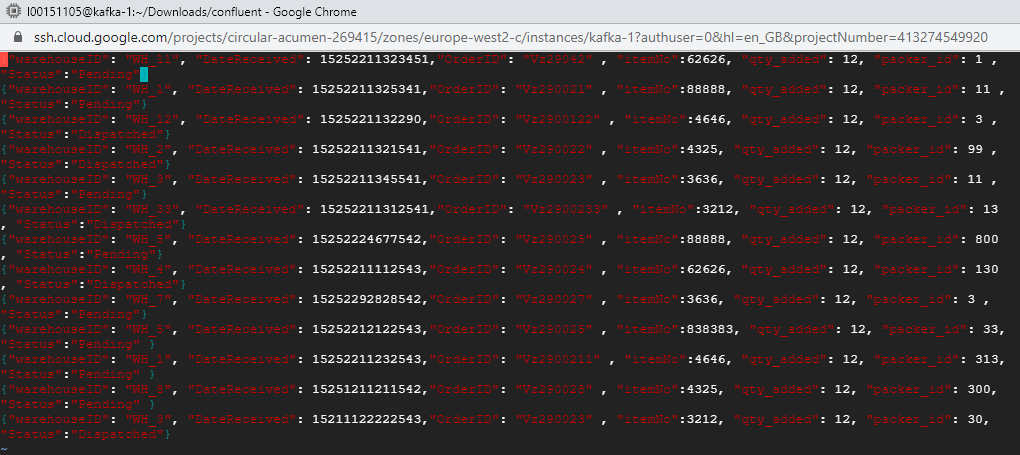
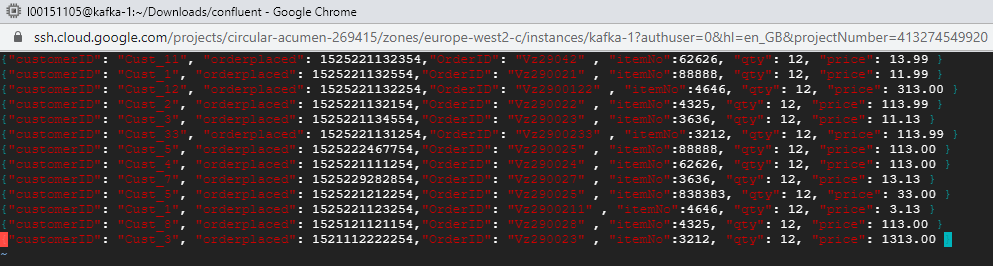
**PRACTICAL ASSESSMENT -2**

Question 1. Creating json files

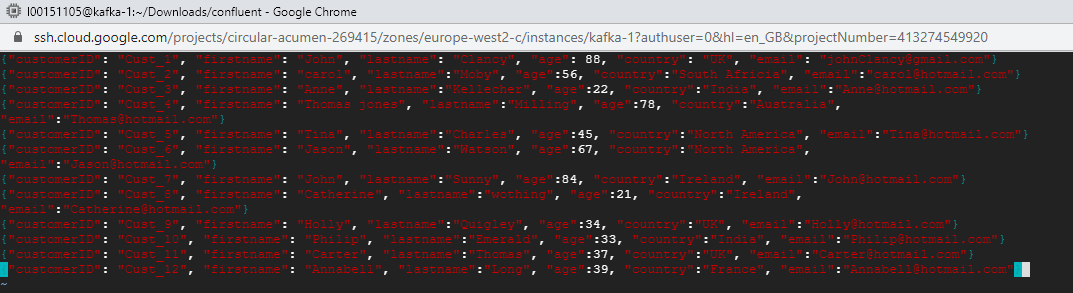
Streamdata.json



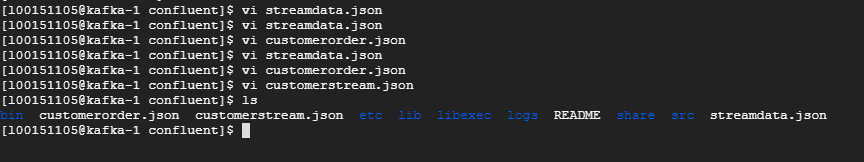
Customerdata.json



Customerstream.json

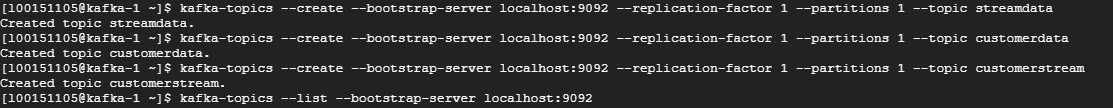


All the json files created

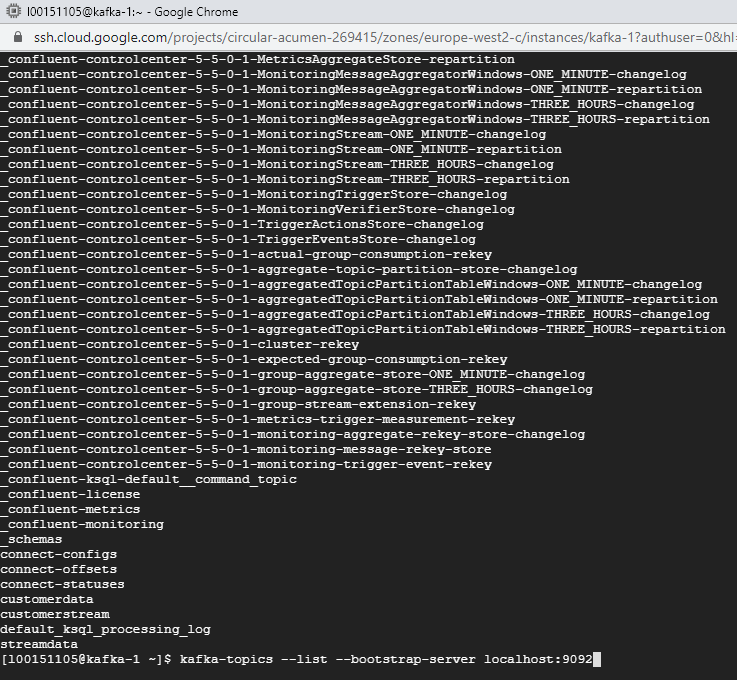


Question 2:

Creating the topics of the json files which we have created earlier

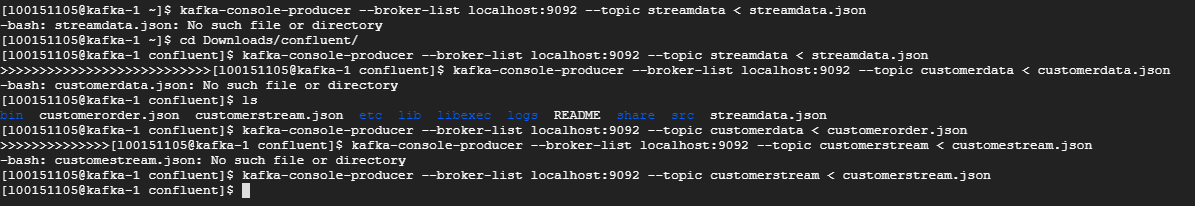


Show the topics list which we have created now



Question 3:

Creating the producer for all the topics

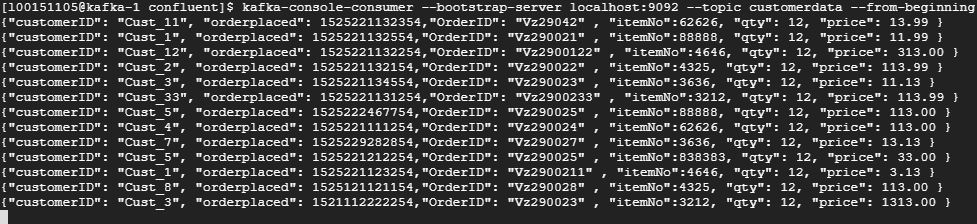


Showing the data using the consumers

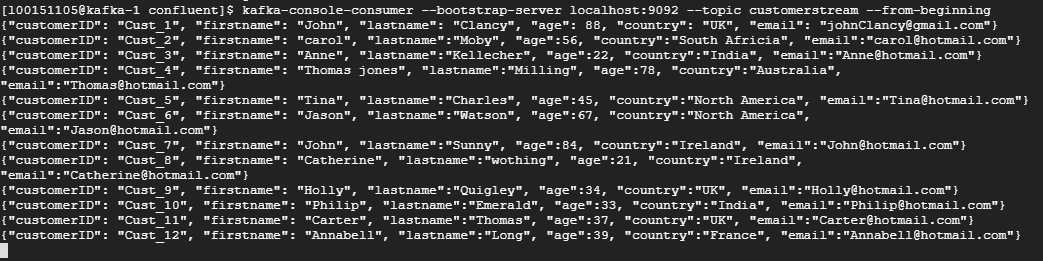
Showing the customer stream data topics from json files



Showing customer order data through consumers for viewing the data



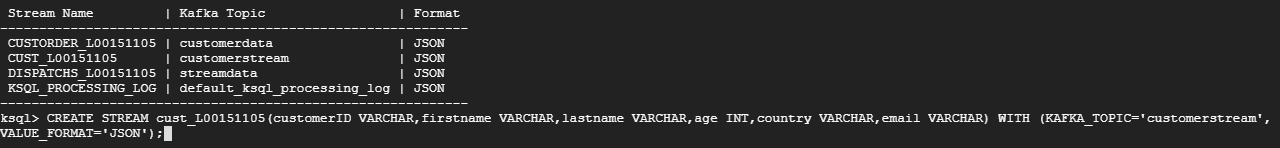
Showing the customer stream data through consumers for viewing the data



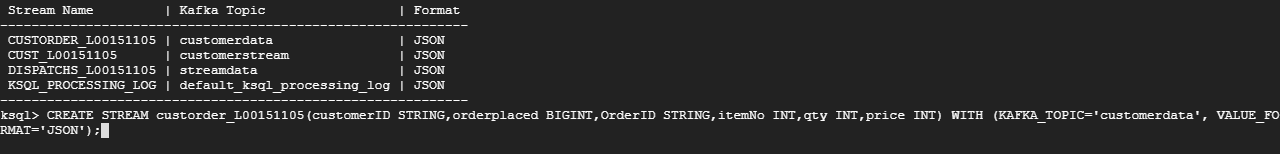
Question 4:

Creating streams

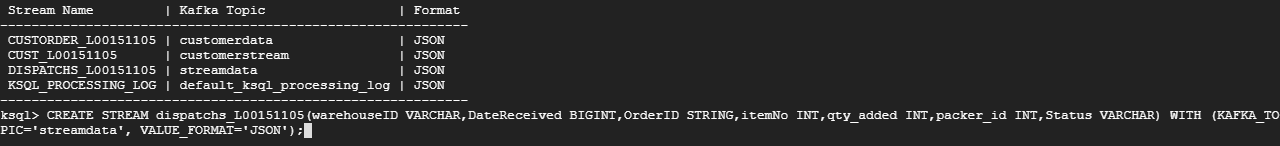
For cust\_L00151105



For CUSTORDER\_L00151105

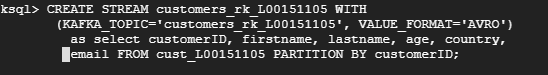


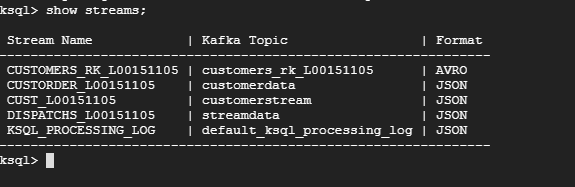
For DISPATCHS\_L00151105

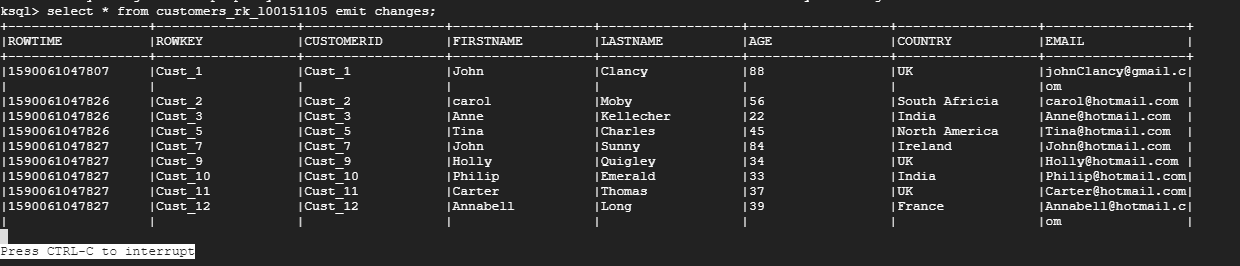


Question 5:

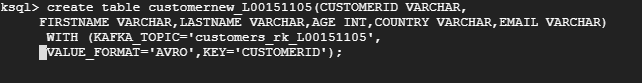
Creating stream

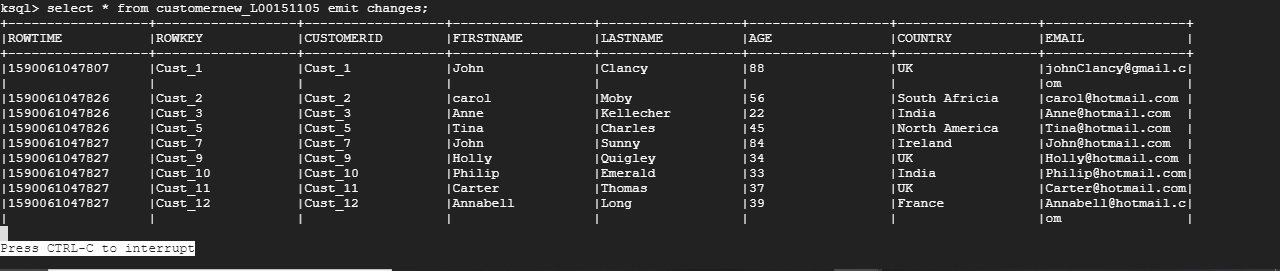






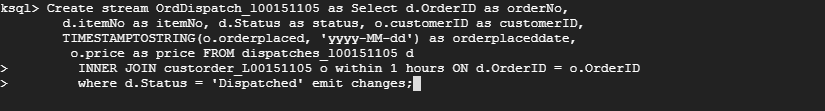
Creating the table

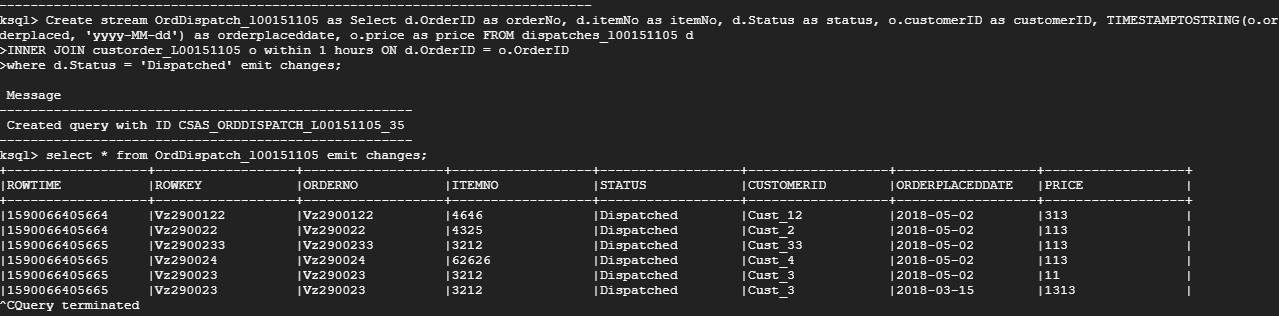




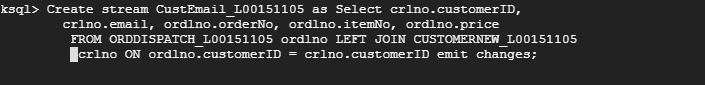
Question 6:

Create a stream called OrdDispatch\_L000?? which will store all orders that have been dispatched from the warehouses. This stream should only include order number, item number, status from the dispatches stream and customerid, date of orderplaced, and price from the customer order stream. Both streams should be joined within a 1 hour period.





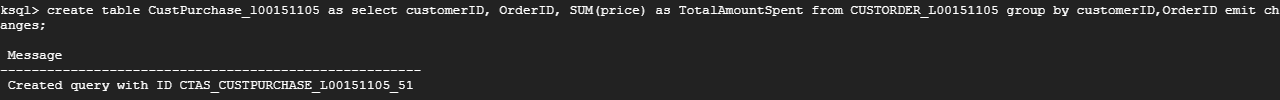
Question 7:

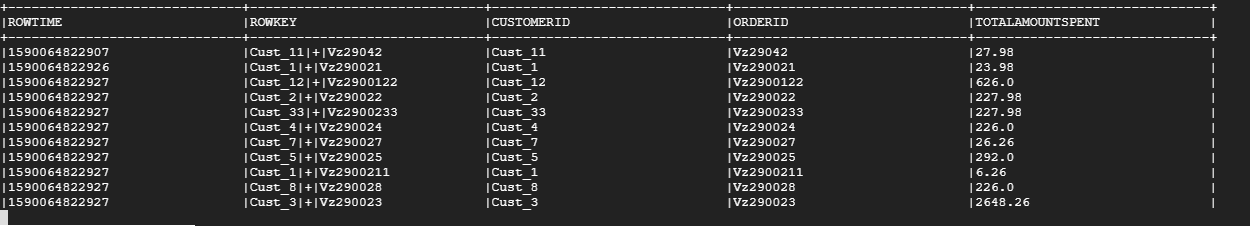




Question 8:

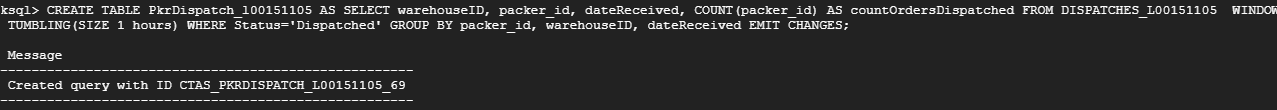
Create a table called CustPurchase\_L00?? which will aggregate the item cost per customer order. The table should include customerid, orderid, TotalAmountSpent only.

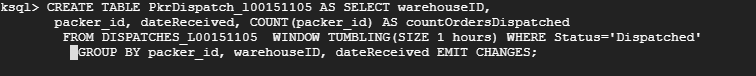


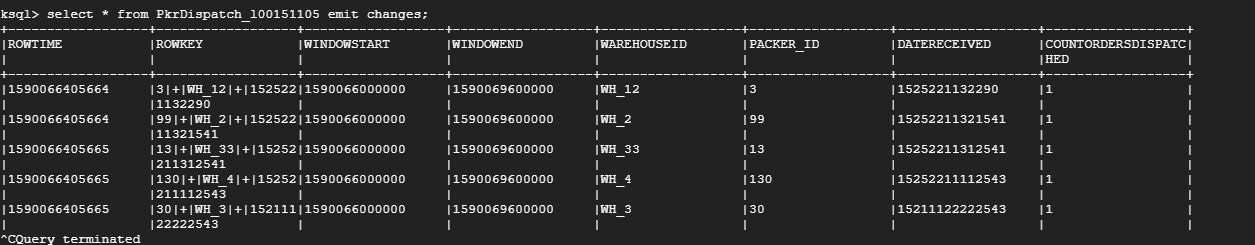


Question 9:

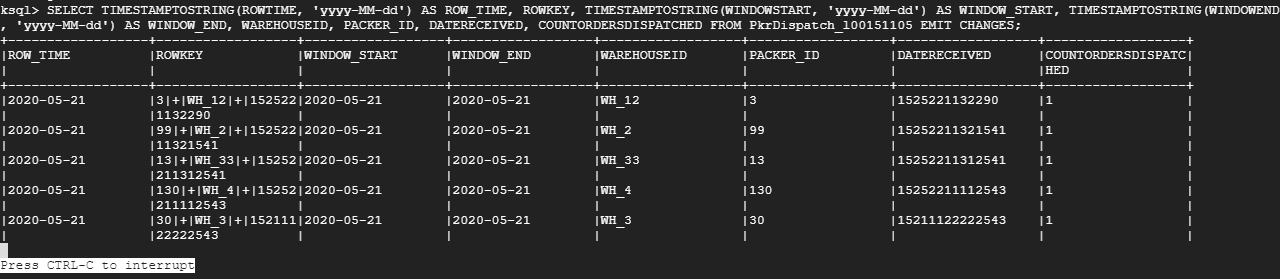
Create a window that aggregates the number of orders dispatched by a packer over a 1 hour period. The window should include the warehouse id, packer\_id, datereceived in timestamp format, and a count of the orders dispatched. Create a Kafka table called ‘PkrDispatch\_L00??’ to store these windows for further processing

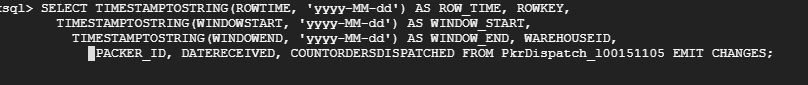






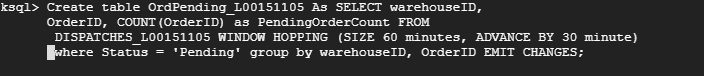
Perform a select statement on this table listing all information. Format the ROWTIME, window start and end times using TimestampToString function.

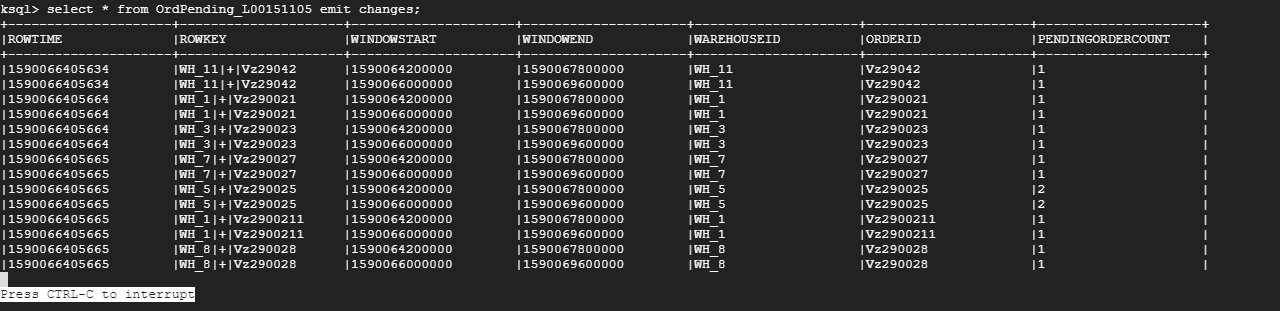




Question 10.

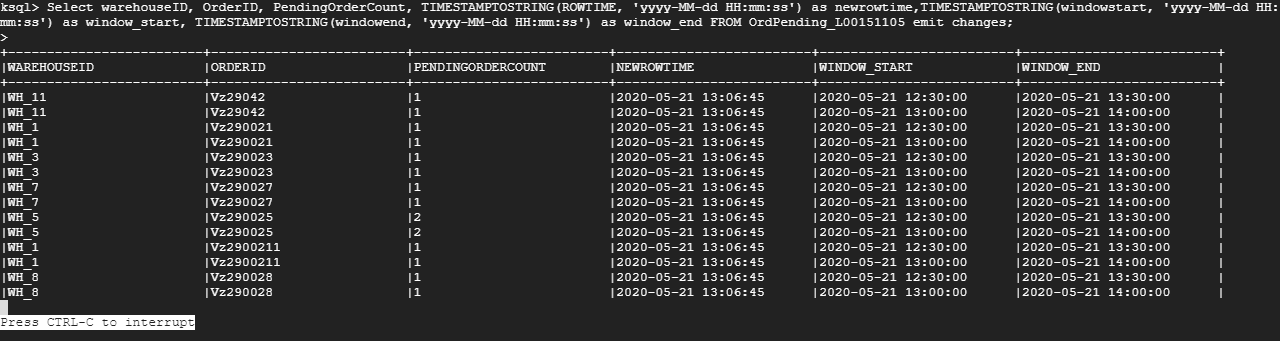
Create a window that aggregates the number of pending orders per warehouse. This window should be created every 30 minutes and the window duration should be over a 60 minute period. The window should show the warehouseid, and the total number of orders pending. Create a Kafka table called ‘OrdPending\_L00??’ to store these windows for further processing.



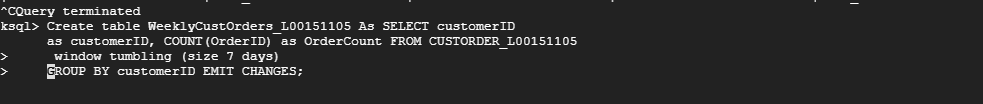


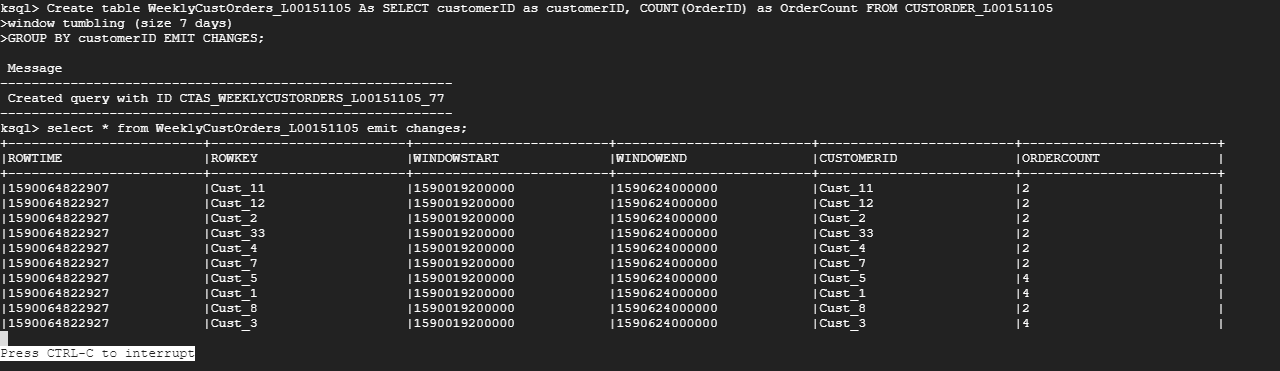
10(b)

Perform a select statement on this table listing all information. Format the ROWTIME, window start and end times using TimestampToString function.



Question(11a)





11(b)

