Name: - Muhammad Huzaifa Waseem (2303-KHI-DEG-021)

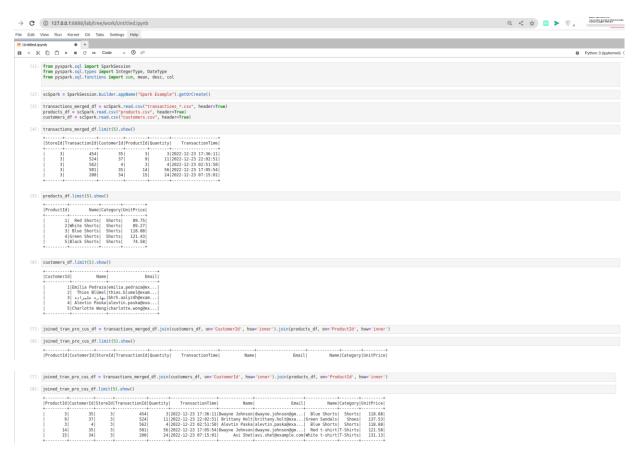
Pair Partner 1: - Muhammad Faizan Rafique (2303.005.KHI.DEG)

Pair Partner 2: - Syed Muhammad Hammad Irshad(2303.KHI.DEG.032)

UNIT 5.1:

Assignment

Based on the data contained in tasks/4_data_pipelines/day_1_introduction/daily_assignment/data directory, use PySpark to read, filter and join the data from CSV files and answer the following questions:



• What are the daily total sales for the store with id 1?

```
[8]: # Convert TransactionTime column to NateType

of = joined_tran_pro_cus_df.withColumn("TransactionTime", joined_tran_pro_cus_df{"TransactionTime"}.cast(DateType()))

[10]: # Convert Quantity and UnitPrice column to appropriate data types

of = df.withColumn("Quantity", df("Quantity").cast(IntegerType()))

# Calculate total sales for each transaction

sales_df = df.withColumn("Sales", df("Quantity") * off("UnitPrice"))

# Croup by TransactionTime and calculate daily total sales

daily_total_sales_Storaid_1 = sales_df.filter(df("Storeid") == 1).groupBy("TransactionTime").apg(sun("Sales"))

# Show the result

daily_total_sales_Storaid_1.show()

**TransactionTime | TransactionTime | Tran
```

• What are the mean sales for the store with id 2?

• What is the email of the client who spent the most when summing up purchases from all of the stores?



• Which 5 products are most frequently bought across all stores?

