**Question 1: SQL**

Buyer Tier table:

A table partitioned by ds (YYYYMMDD), where the buyers’ tier is calculated daily (but not guaranteed).



buyer\_id: ID of buyer

tier: buyer’s tier as per calculated on ds

ds: date that the table partition was created

Delivery Table:

A table depicting the date when a particular package is ordered and received by a buyer (multiple packages could be ordered on the same day).



buyer\_id: ID of buyer

package\_id: Unique ID of a particular order that was packed for delivery

order\_date: Date which the package was ordered by the buyer

date\_received: Date which the package was received by the buyer

Using the structure of the above 2 tables, write a SQL query to find out:

1. The average delivery time taken by buyers of the different tiers between 2021-Jan to 2021-May.
2. For an average buyer, between 2021-Jan to 2021-May, how long did it take for them to receive their 1st purchase, 2nd purchase, …, nth purchase?

Any SQL variation is acceptable, but has to be coherent; state which variation you are using.

**Question 2:**

Analyze and scavenge for anything that is interesting in the provided “report\_views.xlsx” dataset. You can use any data tool/s you are familiar with. Please submit the findings together with, **most importantly**, your thought process/methodology of how you arrived at the conclusion.



Stat\_Date: Date that the statistics is for

Report\_ID: Identifier of the report that was visited

Visitor\_ID: Identifier of the visitor who visited the report

Department\_ID: Identifier of the Department which the visitor belongs to

Maker\_ID: Identifier of the maker of the report

Visits: Number of visits made by the visitor on the Stat\_Date