**Part 1: Interactive Data Dashboard**

**A.**

1. Datasets
   * Telco-Customer-Churn.csv
   * Postgres churn database

Tableau Dashboard

* + Not needed as the Executive Dashboard is accessible via the Tableau Public Server.

1. Provide step-by-step instructions to guide users through the dashboard installation.

﻿Executive Dashboard:

1. Download the ‘D211.twbx’ and the ‘Telco-Customer-Churn.csv’ to the lab
2. Open ‘Windows Explorer’
3. Find the ‘Download’ folder under ‘This PC’
4. Ensure the D211.twbx and Telco-Customer.Churn.csv are in the same folder
5. Double click on the ‘D211.twbx’ to load the Tableau 2021
6. When the ‘PostgreSQL credential’ pops up
7. Enter the credentials and click ‘Sign in’
8. Ensure the ‘Executive Dashboard’ dashboard is selected
9. Provide instructions to help users navigate the dashboard.

Interactive controls: Executive Dashboard

1. “**Select Category**” menu (Left or **Stayed**)
2. To view the elements related to the churned accounts,select the blue “Left” in the category menu (top-right).
3. View numbers of accounts that did not churn by selecting orange “**Stayed**” in the category in the menu (top right).
4. After selecting the churn filters, all the visuals on the dashboards will only show its information. i.e., Churn related visuals will be updated to show relevant values.
5. Provide a copy of all SQL code and other code supporting the dashboards.
   * 1. PostgreSQL LEFT JOIN ‘customer.location\_id’ with ‘location.location\_id’ query

SELECT "customer+"."CaseOrder" AS "CaseOrder",

('customer'::text) AS "Table Name (customer+)",

"customer+"."age" AS "age",

"customer+"."bandwidth\_gp\_year" AS "bandwidth\_gp\_year",

"customer+"."children" AS "children",

CAST("customer+"."churn" AS TEXT) AS "churn",

"customer+"."contacts" AS "contacts",

"customer+"."contract\_id" AS "contract\_id",

CAST("customer+"."customer\_id" AS TEXT) AS "customer\_id",

"customer+"."email" AS "email",

CAST("customer+"."gender" AS TEXT) AS "gender",

"customer+"."income" AS "income",

"customer+"."job\_id" AS "job\_id",

"customer+"."lat" AS "lat",

"customer+"."lng" AS "lng",

"customer+"."location\_id" AS "location\_id",

CAST("customer+"."marital" AS TEXT) AS "marital",

"customer+"."monthly\_charge" AS "monthly\_charge",

"customer+"."outage\_sec\_week" AS "outage\_sec\_week",

"customer+"."payment\_id" AS "payment\_id",

"customer+"."population" AS "population",

CAST("customer+"."port\_modem" AS TEXT) AS "port\_modem",

CAST("customer+"."tablet" AS TEXT) AS "tablet",

CAST("customer+"."techie" AS TEXT) AS "techie",

"customer+"."tenure" AS "tenure",

"customer+"."yearly\_equip\_faiure" AS "yearly\_equip\_faiure",

"location+"."state" AS "State"

FROM "public"."customer" "customer+" LEFT JOIN "public"."location" "location+"

ON "customer+"."location\_id" = "location+"."location\_id"