**D205: Data Acquisition**

**Performance Assessment**

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D205: Data Acquisition

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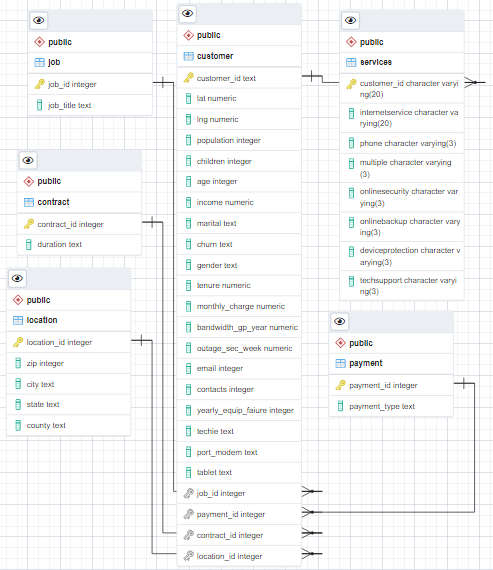
**A: Research Question**

What is the age distribution of customers that use tech support vs. customers that do not use tech support?

**A1: Identifying Data**

I will use the age data from the customers table and the tech support column from the services table. I will join the two tables using the customer\_id columns in both tables.

**B: Logical Data Model**

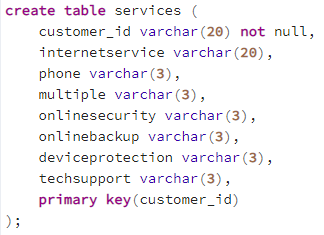


**B: Logical Data Model (continued)**

My ERD is shown above. It shows a primary key in all tables, as well as foreign keys in all tables referencing a column in the customer table.I was able to create this logical data model using the ERD tool in pgAdmin (“ERD Tool”, n.d.).

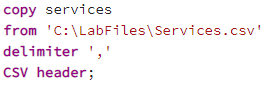
**B1: Code for the Physical Data Model**

Below is the code I used to create my services table with all columns as character varying columns. The customer\_id column cannot have null values and is also the primary key.

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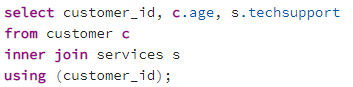
**B2: Loading CSV Data**

I was able to load the csv file into my table using the copy statement (PostgreSQL Tutorial, n.d.). I used the Services csv file from the LabFiles folder. I used a comma as the delimiter and specified that there is a header.

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**C: SQL Query**

This query will return each customer id, the age of each customer from the customer table, and whether or not they use tech support from the services table. I joined the customer and services tables using the customer\_id column from both tables.

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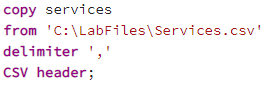
**C1: CSV File**

The CSV file has been uploaded as a separate file in the submission.

**D: Add-On File**

The add-on file should be updated every two months. This will allow us to track how our age distribution is changing, if at all. If we decide to take action to change the distribution of customers using tech support, we can track the age distribution to see if those action steps are working.

**E: SQL Script**

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**F: Panopto Video**

The Panopto video has been uploaded in the D205 folder.

<https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=88471f3b-e340-41cf-9a29-af680137ba33>

**G: Web Sources**

I did not use any web sources to acquire data.

**H: Sources**

*Import CSV file into postgresql table*. PostgreSQL Tutorial. (n.d.). Retrieved December 11, 2022, from <https://www.postgresqltutorial.com/postgresql-tutorial/import-csv-file-into-posgresql-table/>

*ERD Tool.* PgAdmin 4 6.17 documentation. (n.d.). Retrieved December 11, 2022, from <https://www.pgadmin.org/docs/pgadmin4/6.17/erd_tool.html>