D211 Performance Assessment

SLM1– SLM1 Task 1: Data Analysis

Advanced Data Acquisition - D211  
PRFA – SLM1

André Davis  
Student ID: 010630641  
MSDA

Competencies  
4033.2.1 : Storytelling with Data  
The graduate communicates data insights to technical and nontechnical audiences.

4033.2.2 : Data Visualizations and Representations  
The graduate creates data representations to offer insight into an organizational problem.

4033.2.3 : Dashboards  
The graduate designs interactive dashboards to support executive decision-making.

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# A: DATA DASHBOARDS

The data dashboards support executive decision-making.

## A1: BOTH DATA SETS

Both data sets are accurate and complete and support the creation of dashboards for executive decision-making.

The datasets that are being used for to support the Tableau Professional Dashboard are as follows:

1. Within the OnDemand Lab, WGU has provided two datasets, namely "churn" and "medical\_data," available within PostgreSQL pgAdmin. From these datasets, I have selected the "medical\_data" database to establish a data connection with Tableau Professional for the purpose of creating my dashboards.

2. As part of my ongoing data analysis, I have opted to utilize the same data source utilized in D210. This dataset, known as ['Hospital\_General\_Information\_2016\_2020](https://www.kaggle.com/datasets/abrambeyer/us-hospital-overall-star-ratings-20162020)' (ABeyer, 2021), can be accessed on [kaggle.com](https://www.kaggle.com/). To facilitate the integration of this dataset into my analysis workflow, a straightforward Python script was developed. The script efficiently handles the ingestion of the CSV dataset, enabling the creation of a corresponding database and table within PostgreSQL pgAdmin, with the dataset's information loaded accordingly.

## A2: DASHBOARD INSTALLATION

The step-by-step instructions to guide users through the dashboard installation process is logical and accurate, and the instructions include all steps in the dashboard installation process.

### Prepare Performance Assessment Files for WGU OnDemand Lab

As a Performance Assessor at WGU, it is essential to retrieve the submitted files and transfer them to a cloud-based service, such as your WGU Email Google Drive. This process involves organizing the files within a designated folder accessible through the WGU OnDemand Lab. Once the files are stored in the appropriate location, they can be easily accessed and downloaded when necessary.  
  
Result should look similar to:  
A screenshot of a computer

Description automatically generated with medium confidence

## A3: DASHBOARD NAVIGATION

The instructions to help users navigate the dashboards are clear and complete.

## A4: SQL CODE

A copy of all SQL code and other code supporting the dashboards is accurate, complete, and correct.

# B: PANOPTO PRESENTATION

The link connects to the Panopto multimedia presentation.

## B1: TECHNICAL ENVIRONMENT

The description of the technical environment used to create the dashboards is both complete and accurate.

## B2: DEMONSTRATE DASHBOARD FUNCTIONALITY

The submission fully demonstrates the functionality of each dashboard.

## B3: SQL SCRIPTS

The explanation of the SQL scripts used to support the creation of the dashboards is accurate and complete.

## B4: DATA STREAMS

The explanation of how the data streams were prepared to support the analysis is accurate, complete, and logical.

## B5: DATA POINTS

The description of how data were aligned with other data points is accurate, logical, and complete.

## B6: DATABASE CREATION

The demonstration of how the databases were created is both accurate and complete.

## B7: REFERENTIAL INTEGRITY

The explanation of how referential integrity was enforced in the database is accurate and complete.

# C: WRITTEN REPORT

The written accurately outlines the data exploration, the use of advanced SQL operations, and the analysis of the data.

## C1: DASHBOARD ALIGNMENT

The explanation is accurate, logical, and complete.

## C2: BUSINESS INTELLIGENCE TOOL

The justification of the selection of the business intelligence tool used is accurate, logical, and complete.

## C3: DATA CLEANING

The explanation of the steps used to clean and prepare the data for the analysis is accurate, logical, and complete.

## C4: DASHBOARD CREATION

The summary of the steps used to create the dashboards is accurate, logical, and complete.

## C5: DATA ANALYSIS RESULTS

The submission is accurate, logical, and complete, and it discusses how the results of the data analysis support executive decision-making.

## C6: ANALYSIS LIMITATIONS

The discussion of the limitation(s) of the data analysis is accurate and complete.

# D: WEB SOURCES

The record of the web sources used to acquire data or segments of third-party code to support the application is both complete and accurate, and the web sources cited are reliable. Or no web sources are used to acquire data or segments of third-party code, and the submission states this.

# E: [SOURCES](https://lrps.wgu.edu/provision/147882373)

The submission includes in-text citations for sources that are properly quoted, paraphrased, or summarized and a reference list that accurately identifies the author, date, title, and source location as available.

*PSQL*. PostgreSQL Documentation. (2023, May 11). <https://www.postgresql.org/docs/current/app-psql.html>

ABeyer. (2021, May 26). *U.S. hospital overall star ratings 2016-2020*. Kaggle. <https://www.kaggle.com/datasets/abrambeyer/us-hospital-overall-star-ratings-20162020>

# F: [PROFESSIONAL COMMUNICATION](https://lrps.wgu.edu/provision/27641407)

Content reflects attention to detail, is organized, and focuses on the main ideas as prescribed in the task or chosen by the candidate. Terminology is pertinent, is used correctly, and effectively conveys the intended meaning. Mechanics, usage, and grammar promote accurate interpretation and understanding.