**Section A**

A - Business Question:

*Which genre of film was most successful at each video store? How much of the total sales can be attributed to the top genre at each store*

***MY THOUGHT PROCESS.***

1. ***I will look at the rental\_id that shows up the most at each store.***
2. ***I will add up the total sales of the rental that appeared the most.***
3. ***I will then add the total sales of ALL RENTALS to show how much the top earner contributed to the overall sales of each store.***

A-1 Describe the data used for the report.

A-2 Identify two or more specific tables from the given dataset that will provide the data necessary for the detailed and the summary sections of the report.

The data used in the report came from the following tables

1. inventory
2. film

A-3 Identify the specific fields that will be included in the detailed and the summary sections of the report.

A-4 Identify one field in the detailed section that will require a custom transformation and explain why it should be transformed. For example, you might translate a field with a value of ‘N’ to ‘No’ and ‘Y’ to ‘Yes’.

A-5 Explain the different business uses of the detailed and the summary sections of the report.

A-6 Explain how frequently your report should be refreshed to remain relevant to stakeholders.

**Section B**

1. **Write a SQL code that creates the tables to hold your report sections.**
   1. **One for a detailed table**
   2. **One for a summary table**

**Section C**

1. **Write a SQL query that will extract the raw data needed for the Detailed section of your report from the source database and verify the data’s accuracy.**
   1. **Fill the detailed table with the data used to answer my question**
      1. **Verify data accuracy by testing the data**

**Section D**

**Write code for function(s) that perform the transformation(s) you identified in part A4.**

**Section E**

**Write a SQL code that creates a trigger on the detailed table of the report that will continually update the summary table as data is added to the detailed table.**

**Section F**

**Create a stored procedure that can be used to refresh the data in *both* your detailed and summary tables. The procedure should clear the contents of the detailed and summary tables and perform the ETL load process from part C and include comments that identify how often the stored procedure should be executed.**

**1.  Explain how the stored procedure can be run on a schedule to ensure data freshness.**

**Section G**

**Provide a Panopto video recording that includes a demonstration of the functionality of the code used for the analysis and a summary of the programming environment.**

***Note: For instructions on how to access and use Panopto, use the "Panopto How-To Videos" web link provided below. To access Panopto's website, navigate to the web link titled "Panopto Access," and then choose to log in using the “WGU” option. If prompted, log in using your WGU student portal credentials, and then it will forward you to Panopto’s website.***

***To submit your recording, upload it to the Panopto drop box titled “Advanced Data Management D191 | D326 (Student Creators) [assignments].”*  *Once the recording has been uploaded and processed in Panopto's system, retrieve the URL of the recording from Panopto and copy and paste it into the Links option. Upload the remaining task requirements using the Attachments option.***

**Section H**

**Record the web sources you used to acquire data or segments of third-party code to support the application if applicable. Be sure the web sources are reliable.**

**Section I**

**Acknowledge sources, using in-text citations and references, for content that is quoted, paraphrased, or summarized.**

**Section J**

**Demonstrate professional communication in the content and presentation of your submission.**

**SQL CODE BACKUP**