# SHOWSELECTSELECT Template

Complete these steps as you work through the directions for this activity. Refer to the guidelines and rubric for help with how to complete these steps. Rename this template by adding your last name to the file name. Replace the bracketed text in the template with your responses and supporting screenshots as you complete the activity. Size each screenshot and its explanation to fit approximately one-quarter of the page. Review the Template Screenshot Example linked in the guidelines and rubric for this assignment to see how screenshots for your assignment should look. Submit the completed template for grading and feedback.

1. **Analyze the data** provided in FleetMaintenanceRecords **to** **identify themes**.
   1. Review part-replacement frequencies and types. Then create a hypothesis that the fleet management team can use to better handle maintenance.
      1. Create a table called Parts Maintenance. Put this table in the database named after yourself.
      2. Load the data set from the ‘/home/codio/workspace’ path and run queries to find the results. You should use the following line terminators when importing: \r\n.
      3. Answer the following questions and provide supporting screenshots.
         1. Which parts are being replaced most often?

A screenshot of a computer program

Description automatically generated

According to the database Fuel Tanks are number at 95 then Tire Repair at 74 and Tire Replacement coming the top three at 66 repairs.

* + - 1. Which region or regions of the country experience more part failures and replacements than others?
         1. Identify the region or regions with more reasons for the replacement of parts.
         2. Use the Region Definitions sheet to identify states in each region.

A screenshot of a computer program

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The MidWest region has the most number of repairs followed by the NorthEast

* + - 1. How might the fleet maintenance team use the information to update its maintenance schedule?

It can assist in determining the potential number of personnel required in a given region. Additionally, it can assist administrators of those regions in maintaining inventory of the necessary parts to perform the aforementioned repairs.

* + - 1. Which parts are being replaced most often due to corrosion or rust?

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According to data shown here the number one part replaced is the Wheel Arch at 55 repairs, Fender replacement coming in second with 54 repairs.

* + - 1. Which parts are being replaced most often because of mechanical failure or an accident like a flat tire or rock through the windshield?

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As a result of mechanical failure or accidents, the following components are being replaced the most frequently: 74 tires are being repaired, 66 tires are being replaced, and 63 windshields are being replaced.

1. **Write a** brief **summary of** your **analysis** thattakes the information from step one and presents it in a way that nontechnical stakeholders can understand. Write your response in paragraph form.

According to the data, the Midwest has the most repairs, 260. A nationwide investigation found that fuel tanks cost the most, at 95. The report's maximum corrosion or rust count is 55 for the wheel arch. Finally, 74 tire repairs are the report's greatest reason for mechanical failures or accidents.

1. **Outline the approach** that you took to conduct the analysis.
   1. What queries did you use to identify trends or themes in the data?

I used SELECT, WHERE, GROUP, UNION, and ORDER to retrieve the data needed for this project.

* 1. What are the benefits of using these queries to retrieve the information in a way that allows you to provide valuable information to your stakeholders?

Using these queries allows us to readily find particular data and information, which is a huge benefit. It would be possible for stakeholders to anticipate needs, place components orders, and have them delivered to the right place.

1. **Explain** how the **functions in** the **analysis tool** (MySQL) allowed you to organize the data and retrieve records quickly.

Based on the information that was provided and the location of the data, this tool assisted in displaying the data in a manner that was both obvious and simple to comprehend.