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| **Standard** | **Unacceptable** | **Developing** | **Good** | **Exemplary** | **Rating / Comments** |
| **Accuracy of Answers** | Student answered 2 or less questions correctly | Student answered 3-4 questions correctly | Student answered 4 or 5 questions correctly | Student answered all 5 questions correctly |  |
| **Obtaining + Preparing**  Ability to obtain the Citi Bike data for all 2017. They will need to show they obtained the monthly reports and aggregated them performing any cleaning necessary. | Student could not obtain or prepare data. | Student partially met both standards or only one of the two standards.  For example: student was unable to obtain all data but was able to prepare for consumption. | Student met expectations by obtaining the data and preparing for consumption. | Student exceeded expectations by obtaining data using an approach that is beyond the requirements. |  |
| **Visualizing**  Student was able to create a professional operating report showing: | Student was unable to accurately create the chart. | Student created the chart however some information was inaccurate. | Student met expectations by developing a chart with accurate data. | Student exceeded expectations by displaying the data in a novel way – beyond the requirements |  |
| **Visualizing**  Trip duration by user type | Student was unable to accurately create the chart. | Student created the chart however some information was inaccurate. | Student met expectations by developing a chart with accurate data. | Student exceeded expectations by displaying the data in a novel way – beyond the requirements |  |
| **Visualizing**  Most popular trips based on start station and stop station) | Student was unable to accurately create the chart. | Student created the chart however some information was inaccurate. | Student met expectations by developing a chart with accurate data. | Student exceeded expectations by displaying the data in a novel way – beyond the requirements |  |
| **Visualizing**  Rider performance by Gender and Age based on avg trip distance (station to station), median speed (trip duration / distance traveled) | Student was unable to accurately create the chart. | Student created the chart however some information was inaccurate. | Student met expectations by developing a chart with accurate data. | Student exceeded expectations by displaying the data in a novel way – beyond the requirements |  |
| **Visualizing**  Busiest bike in NYC in 2017 | Student was unable to accurately create the chart. | Student created the chart however some information was inaccurate. | Student met expectations by developing a chart with accurate data. | Student exceeded expectations by displaying the data in a novel way – beyond the requirements |  |
| **Modeling**  The participant will create a model to predict travel time based on factors (like weather or traffic).  In order to validate completion, it will be necessary to review the data sources, the model used, and the results.  Did the participant create a test / train data set?  What is the accuracy of the test vs. Train set? | Student did not attempt or was unable to merge multiple data sources. | Student was able to pull in one additional data source however, they were unable to model and produce accurate results. | Student was able to obtain, merge, and model an additional data source to predict travel time. | Student used multiple models and multiple data sources with the ability to show accuracy of training vs. test data sets. |  |

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| Decision Point | Yes | Tentative | No |
| Obtaining + Preparing | Good or Exemplary | Developing + Needs further investigation | Unacceptable or would require significant changes to rise above developing |
| Visualizing | All 5 are good or exemplary across all categories | No exemplary + more than 1 developing | One or more unacceptable |
| Modeling | Good or Exemplary | Developing and only requires minimal coaching | Unacceptable |