

**Rubric for Module 4 Challenge:**

	<b>Proficiency 50 to &gt; 47 points</b>	<b>Approaching Proficiency 47 to &gt; 42 points</b>	<b>Developing Proficiency 42 to &gt; 36 points</b>	<b>Emerging 36 to &gt; 0 points</b>	<b>Incomplete</b>
<b>Deliverable 1: Replace Ninth Grade Reading and Math Scores</b>	<p>The Deliverable Fulfills "Approaching Proficiency" Required Criteria – (40 pt) and meets this requirement:</p> <ul style="list-style-type: none"> <li>The reading and math scores are replaced with NaN. (10 pt)</li> </ul>	<p>The Deliverable Fulfills "Developing Proficiency" Required Criteria – (30 pt) and meets these requirements:</p> <p>PLUS</p> <ul style="list-style-type: none"> <li>Logical AND comparison operators are used to retrieve all the rows with the math scores for Thomas High School ninth graders. (10 pt)</li> </ul> <p>AND does this:</p> <ul style="list-style-type: none"> <li>Either the reading OR math scores are replaced with NaN. (7 pt)</li> </ul>	<p>The Deliverable Fulfills "Emerging" Required Criteria – (10 pt) and meets these requirements:</p> <ul style="list-style-type: none"> <li>A comparison operator is used to retrieve all the rows with ninth grade in the "grade" column (10 pt)</li> <li>Logical AND comparison operators are used to retrieve all the rows with the reading scores for Thomas High School ninth graders. (10 pt)</li> </ul> <p>AND does these:</p> <ul style="list-style-type: none"> <li>Logical AND comparison operators are used to retrieve the math scores from ALL the grades at Thomas High School. (7 pt)</li> <li>There is an attempt to replace reading and/or math scores with NaN, OR all the rows from Thomas High School are replaced with NaN (5 pt)</li> </ul>	<p>REQUIRED: The Deliverable does the following:</p> <ul style="list-style-type: none"> <li>A comparison operator is used to retrieve all the rows with Thomas High School in the "school_name" column. (10 pt)</li> </ul> <p>AND does these:</p> <ul style="list-style-type: none"> <li>A comparison operator is used to retrieve all the rows from the "grade" column (7 pt)</li> <li>Logical AND comparison operators are used to retrieve the reading scores from all grades at Thomas High School. (7 pt)</li> <li>Logical AND comparison operators are used to retrieve the math scores from all grades at Thomas High School. (7 pt)</li> <li>There is an attempt to replace reading and math scores with NaN, OR all the rows from Thomas High School are replaced with NaN (5 pt)</li> </ul>	<p>No submission was received</p> <p>-OR-</p> <p>Submission was empty or blank</p> <p>-OR-</p> <p>Submission contains evidence of academic dishonesty</p>
	<b>Proficiency 25 points</b>	<b>Approaching Proficiency 24 to &gt; 23 points</b>	<b>Developing Proficiency 22 to &gt; 20 points</b>	<b>Emerging 20 to &gt; 0 points</b>	
<b>Deliverable 2: Repeat the School District Analysis</b>	<p>The reading and math scores are replaced with NaN, and all the following are completed with no errors:</p> <ul style="list-style-type: none"> <li>There is a new district summary DataFrame. (3 pt)</li> </ul>	<p>The reading and math scores are replaced with NaN, and all the following are completed with some errors:</p> <ul style="list-style-type: none"> <li>There is a new district summary DataFrame. (2-3 pt)</li> </ul>	<p>Either the reading OR math scores are replaced with NaN, and all the following are completed:</p> <ul style="list-style-type: none"> <li>There is a new district summary DataFrame. (2-3 pt)</li> <li>There is a new school</li> </ul>	<p>The reading and math scores are not replaced with NaN, but all the following are completed:</p> <ul style="list-style-type: none"> <li>There is a district summary DataFrame. (2 pt)</li> <li>There is a school summary</li> </ul>	

	<ul style="list-style-type: none"> <li>There is a new school summary DataFrame. (3 pt)</li> <li>The top 5 performing schools based on the overall passing rate are shown. (2 pt)</li> <li>The bottom 5 performing schools based on the overall passing rate are shown. (2 pt)</li> <li>The average math score for each grade level from each school is shown. (3 pt)</li> <li>The average reading score for each grade level from each school is shown. (3 pt)</li> <li>The scores by school spending per student is shown. (3 pt)</li> <li>The scores by school size (3 pt)</li> <li>The scores by school type (3 pt)</li> </ul>	<ul style="list-style-type: none"> <li>There is a new school summary DataFrame. (2-3 pt)</li> <li>The top 5 performing schools, based on the overall passing rate are shown. (1.5-2 pt)</li> <li>The bottom 5 performing schools based on the overall passing rate are shown. (1.5-2 pt)</li> <li>The average math score for each grade level from each school is shown. (2-3 pt)</li> <li>The average reading score for each grade level from each school is shown. (2-3 pt)</li> <li>The scores by school spending per student are shown. (2-3 pt)</li> <li>The scores by school size (2-3 pt)</li> <li>The scores by school type (2-3 pt)</li> </ul>	<p>summary DataFrame. (2 pt)</p> <ul style="list-style-type: none"> <li>The top 5 performing schools, based on the overall passing rate are shown. (1.5 pt)</li> <li>The bottom 5 performing schools based on the overall passing rate are shown. (1.5 pt)</li> <li>The average math score for each grade level from each school is shown. (2-3 pt)</li> <li>The average reading score for each grade level from each school is shown. (2-3 pt)</li> <li>The scores by school spending per student are shown. (2-3 pt)</li> <li>The scores by school size are shown. (2-3 pt)</li> <li>The scores by school type are shown. (2-3 pt)</li> </ul>	<p>DataFrame. (2 pt)</p> <ul style="list-style-type: none"> <li>The top 5 performing schools based on the overall passing rate are shown. (1 pt)</li> <li>The bottom 5 performing schools based on the overall passing rate are shown. (1 pt)</li> <li>The average math score for each grade level from each school is shown. (2 pt)</li> <li>The average reading score for each grade level from each school is shown. (2-3 pt)</li> <li>The scores by school spending per student are shown. (2-3 pt)</li> <li>The scores by school size are shown. (2-3 pt)</li> <li>The scores by school type are shown. (2-3 pt)</li> </ul>	
	<b>Proficiency 7 points</b>	<b>Approaching Proficiency 6 to &gt; 4 points</b>	<b>Developing Proficiency 4 to &gt; 3 points</b>	<b>Emerging 3 to &gt; 0 points</b>	
<b>Deliverable 3: Structure, Organization, and Formatting</b>	<p>The written analysis has ALL of the following:</p> <ul style="list-style-type: none"> <li>There is a title, and there are multiple sections. (2 pt)</li> <li>Each section has a heading and subheading. (3 pt)</li> <li>There are images and references to code, and they are formatted and displayed correctly. (2 pt)</li> </ul>	<p>The written analysis has ALL of the following:</p> <ul style="list-style-type: none"> <li>There is a title, and there are multiple sections. (2 pt)</li> <li>Each section has a heading and subheading. (3 pt)</li> <li>There are images and references to code, and they are formatted and displayed correctly with one or two minor errors. (1 pt)</li> </ul>	<p>The written analysis has ALL of the following:</p> <ul style="list-style-type: none"> <li>There is a title, and there are multiple sections. (2 pt)</li> </ul> <p>AND ONE of the following:</p> <ul style="list-style-type: none"> <li>Each section may have a heading and subheading. (2 pt)</li> <li>There are images and references to code, and they are formatted and displayed correctly with one or two minor errors. (1 pt)</li> </ul>	<p>The written analysis has ALL of the following:</p> <ul style="list-style-type: none"> <li>There is a title. (1 pt)</li> <li>There may be a subheading for a section. (1 pt)</li> <li>There are no headings for each section, but there are three sections. (1 pt)</li> </ul>	

	<b>Proficiency 18 to &gt; 16 points</b>	<b>Approaching Proficiency 15 to &gt; 13 points</b>	<b>Developing Proficiency 13 to &gt; 11 points</b>	<b>Emerging 10 to &gt; 0 points</b>	
<b>Deliverable 3: Analysis</b>	<ul style="list-style-type: none"> <li>The purpose is well defined (3 pt).</li> <li>SIX to SEVEN metrics are addressed (9-10 pt)</li> <li>THREE to FOUR major changes are summarized for the school district analysis. (4-5 pt).</li> </ul>	<ul style="list-style-type: none"> <li>The purpose is well defined (3 pt).</li> <li>FIVE to SIX of the SEVEN metrics are addressed (6-8 pt)</li> <li>TWO to THREE major changes are summarized for the school district analysis. (3-4 pt).</li> </ul>	<ul style="list-style-type: none"> <li>The purpose is well defined (3 pt).</li> <li>THREE to FOUR of the SEVEN metrics are addressed (4-5 pt)</li> <li>ONE to TWO major changes are summarized for the school district analysis. (2-3 pt).</li> </ul>	<ul style="list-style-type: none"> <li>The purpose is well defined (3 pt).</li> <li>Less than THREE of the SEVEN metrics are addressed. (5 pt).</li> <li>Only ONE major change is summarized or the summary does not adequately address the major changes to the school district analysis. (2 pt)</li> </ul>	