

Rubric for PyCitySchools:

	Mastery 20 points	Approaching Mastery 15 points	Progressing 10 points	Emerging 5-0 points	Incomplete
Written Report	<p>Presents a cohesive written analysis that correctly answers the following questions:</p> <ul style="list-style-type: none"> ✓ How is the district summary affected? ✓ How is the school summary affected? ✓ How does removing the ninth graders' math and reading scores affect Thomas High School's performance, relative to the other schools? ✓ How does removing the ninth grade scores affect the following <ul style="list-style-type: none"> - Math and Reading Scores by Grade - Scores by School Spending - Scores by School Size - Scores by School Type 	<p>Presents a cohesive written analysis that correctly answers three of the following questions :</p> <ul style="list-style-type: none"> ✓ How is the district summary affected? ✓ How is the school summary affected? ✓ How does removing the ninth graders' math and reading scores affect Thomas High School's performance, relative to the other schools? ✓ How does removing the ninth grade scores affect the following <ul style="list-style-type: none"> - Math and Reading Scores by Grade - Scores by School Spending - Scores by School Size - Scores by School Type 	<p>Presents a developing written analysis that correctly answers two or more of the following questions:</p> <ul style="list-style-type: none"> ✓ How is the district summary affected? ✓ How is the school summary affected? ✓ How does removing the ninth graders' math and reading scores affect Thomas High School's performance, relative to the other schools? ✓ How does removing the ninth grade scores affect the following <ul style="list-style-type: none"> - Math and Reading Scores by Grade - Scores by School Spending - Scores by School Size - Scores by School Type 	<p>Presents a limited written analysis or no written analysis that correctly answers two or more of the following questions:</p> <ul style="list-style-type: none"> ✓ How is the district summary affected? ✓ How is the school summary affected? ✓ How does removing the ninth graders' math and reading scores affect Thomas High School's performance, relative to the other schools? ✓ How does removing the ninth grade scores affect the following <ul style="list-style-type: none"> - Math and Reading Scores by Grade - Scores by School Spending - Scores by School Size - Scores by School Type 	
Expected output displayed	<p>Output for PyCitySchools contains all of the following DataFrames:</p> <ul style="list-style-type: none"> ✓ District Summary ✓ School Summary ✓ High and Low Performing Schools ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type 	<p>Output for PyCitySchools contains at least 5 of the following DataFrames:</p> <ul style="list-style-type: none"> ✓ District Summary ✓ School Summary ✓ High and Low Performing Schools ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type 	<p>Output for PyCitySchools contains at least 4 of the following DataFrames:</p> <ul style="list-style-type: none"> ✓ District Summary ✓ School Summary ✓ High and Low Performing Schools ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type 	<p>Output for PyCitySchools contains 3 or fewer of the following DataFrames:</p> <ul style="list-style-type: none"> ✓ District Summary ✓ School Summary ✓ High and Low Performing Schools ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type 	<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>
Functions used on DataFrames	<p>The following functions are used on DataFrames and produce correct results:</p>	<p>Six of the following functions are used on DataFrames and produce varying results:</p>	<p>Four of the following functions are used on DataFrames to produce varying results:</p>	<p>Three or fewer of the following functions are used on DataFrames to produce varying results:</p>	

	<ul style="list-style-type: none"> ✓ Mean ✓ Sum ✓ Count ✓ Cut ✓ Map ✓ Format ✓ Sort_values ✓ Merge <p><i>Note: values may be up to 1% different than the solution files.</i></p>	<ul style="list-style-type: none"> ✓ Mean ✓ Sum ✓ Count ✓ Cut ✓ Map ✓ Format ✓ Sort_values ✓ Merge <p><i>Note: values may be up to 1% different than the solution files.</i></p>	<ul style="list-style-type: none"> ✓ Mean ✓ Sum ✓ Count ✓ Cut ✓ Map ✓ Format ✓ Sort_values ✓ Merge <p><i>Note: values may be up to 1% different than the solution files.</i></p>	<ul style="list-style-type: none"> ✓ Mean ✓ Sum ✓ Count ✓ Cut ✓ Map ✓ Format ✓ Sort_values ✓ Merge <p><i>Note: values may be up to 1% different than the solution files.</i></p>	
GroupBy used	<p>GroupBy is used in determining the following:</p> <ul style="list-style-type: none"> ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type <p><i>Note: while you completed the above steps during the module content, you will need to do them again to complete the challenge.</i></p>	<p>GroupBy is used for in determining at least 3 of the following:</p> <ul style="list-style-type: none"> ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type <p><i>Note: while you completed the above steps during the module content, you will need to do them again to complete the challenge.</i></p>	<p>GroupBy is used for in determining at least 2 of the following:</p> <ul style="list-style-type: none"> ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type <p><i>Note: while you completed the above steps during the module content, you will need to do them again to complete the challenge.</i></p>	<p>GroupBy is used for in determining 1 or fewer of the following:</p> <ul style="list-style-type: none"> ✓ Math and Reading Scores by Grade ✓ Scores by School Spending ✓ Scores by School Size ✓ Scores by School Type <p><i>Note: while you completed the above steps during the module content, you will need to do them again to complete the challenge.</i></p>	
Drop rows or use NaN to replace values	<ul style="list-style-type: none"> ✓ Replaces both the reading and math scores for the 9th graders in Thomas High school with NaN. 	<ul style="list-style-type: none"> ✓ Replaces either the reading or math scores for the 9th graders in Thomas High school with NaN. 	<ul style="list-style-type: none"> ✓ Replaces all the values for the 9th graders in Thomas High School with NaN. 	<ul style="list-style-type: none"> ✓ Drops the rows instead of replacing the incorrect grades with NaN. 	