



Data Boot Camp Grading Rubric

Unit 9 - SQL Homework - Employee Database: A Mystery in Two Parts

Instructions:

Evaluate the homework against the outlined criteria in the below rubric, assigning a rating to each criterion. Add points earned across all criteria and convert the total points to a letter grade, assigning a “+” or “-” letter grade designation at your discretion.

A (+/-)	35+	C (+/-)	20-29	F (+/-)	<10
B (+/-)	30-34	D (+/-)	10-19		

Notes:

The deployed assignment utilizes **SQL** to complete the challenge. The source code should also be deployed to **Github** or **Gitlab**.

Rubric for Employee Database: A Mystery in Two Parts:

	Mastery 20 points	Approaching Mastery 15 points	Progressing 10 points	Emerging 5-0 points	Incomplete
Data Engineering	<p>All table schemas should run without error, and the Entity Relationship Diagram should include all correct tables. In addition, both the ERD and table schemas should have the following:</p> <ul style="list-style-type: none">✓ All required columns✓ Columns are set to the correct data type✓ Primary Keys set for each table✓ Tables are correctly related using Foreign Keys	<p>4-5 table schemas should run without error, and the Entity Relationship Diagram should include all correct tables. In addition, both the ERD and table schemas should have 3 of the following:</p> <ul style="list-style-type: none">✓ All required columns✓ Columns are set to the correct data type✓ Primary Keys set for each table✓ Correctly references related tables.✓ Correctly uses <code>NOT NULL</code> condition on necessary columns✓ Accurately defines value length for columns	<p>2-3 table schemas should run without error, and the Entity Relationship Diagram may omit tables. In addition, both the ERD and table schemas should have at least two of the following:</p> <ul style="list-style-type: none">✓ All required columns✓ Columns are set to the correct data type✓ Primary key for each table✓ Correctly references related tables using Foreign Keys✓ Correctly uses <code>NOT NULL</code> condition on necessary columns✓ Accurately defines value length for columns	<p>1 table schema should run without error, and the Entity Relationship Diagram may omit tables, but must include at least one of the following:</p> <ul style="list-style-type: none">✓ Each table has the correct column names✓ Each table has the correct corresponding data types✓ Primary Keys set for each table✓ Tables are correctly related using Foreign Keys✓ Correctly uses <code>NOT NULL</code> condition on necessary columns✓ Accurately defines value length for columns <p>-OR-</p> <ul style="list-style-type: none">✓ No Entity Relationship Diagram is included or no table schemas provided.	<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>



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Data Analysis	<p>Queries provided for all questions and:</p> <ul style="list-style-type: none"> ✓ All queries provide the expected results ✓ All queries run without error 	<p>Queries provided for all questions but:</p> <ul style="list-style-type: none"> ✓ Queries provide the expected results, with non-efficient code. <p>-OR-</p> <ul style="list-style-type: none"> ✓ 1-2 queries do not provide the expected result (including errors) 	<ul style="list-style-type: none"> ✓ Queries not provided for all of the questions <p>-AND-</p> <ul style="list-style-type: none"> ✓ 3 queries do not provide the expected result (including errors) 	<ul style="list-style-type: none"> ✓ Queries not provided for all of the questions <p>-AND-</p> <ul style="list-style-type: none"> ✓ 4 or more do not provide the expected result (including errors) <p>-OR-</p> <ul style="list-style-type: none"> ✓ No queries provided 	
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Bonus

	Mastery 10 points	Approaching Mastery 5 points	Emerging 0 points
Bonus	<p>The bonus does all of the following:</p> <ul style="list-style-type: none"> ✓ Correctly queries tables from the postgres database into pandas dataframes ✓ Replaces null values ✓ Generates an average salary bar chart from a pandas dataframe ✓ Plot has titles and axes labels 	<p>The bonus does 3 of the following:</p> <ul style="list-style-type: none"> ✓ Correctly queries tables from the postgres database into pandas dataframes ✓ Replaces null values ✓ Generates an average salary bar chart from a pandas dataframe ✓ Plot has titles and axes labels 	<p>The bonus does 2 or fewer of the following:</p> <ul style="list-style-type: none"> ✓ Correctly queries tables from the postgres database into pandas dataframes ✓ Replaces null values ✓ Generates an average salary bar chart from a pandas dataframe ✓ Plot has titles and axes labels <p>-OR-</p> <ul style="list-style-type: none"> ✓ Bonus not completed <p>-OR-</p> <ul style="list-style-type: none"> ✓ Failed to generate plot