

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 (+/-)	50+	C (+/-)	25-39	F (+/-)	<10
B (+/-)	40-49	D (+/-)	10-24		

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>
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>	<p>✓ Queries not provided for all of the questions</p> <p>-AND-</p> <p>✓ 3 queries do not provide the expected result (including errors)</p>	<p>✓ Queries not provided for all of the questions</p> <p>-AND-</p> <p>✓ 4 or more do not provide the expected result (including errors)</p>	

		✓ 1-2 queries do not provide the expected result (including errors)		-OR- ✓ 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