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	
	The Entity Relationship Diagram includes all correct tables and all of the following:	The Entity Relationship Diagram includes all correct tables and at least 3 of the following:	The Entity Relationship Diagram may omit tables, but includes at least 2 of the following:	The Entity Relationship Diagram may omit tables, but includes at least 1 of the following:		
Data Modeling	✓ 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	✓ 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	✓ 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	✓ 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 -OR-	No submission was received -OR- Submission	
				✓ No Entity Relationship Diagram is included.	was empty or blank	
Data Engineering	All table schemas run without error and include all of the following: ✓ 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 NOT NULL condition on necessary columns ✓ Accurately defines value length for columns	4-5 table schemas run without error and include at least 4 of the following: ✓ 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 NOT NULL condition on necessary columns ✓ Accurately defines value length	2-3 table schemas run without error and include at least 2 the following: ✓ 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 NOT NULL condition on necessary columns ✓ Accurately defines value length for columns	1 table schema runs without error and include at least 1 the following: ✓ 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 NOT NULL condition on necessary columns ✓ Accurately defines value length for columns	-OR- Submission contains evidence of academic dishonesty	

		for columns		-OR- ✓ No table schemas created or the provided schemas do not run	
Data Analysis	Queries provided for all questions and: ✓ All queries provide the expected results ✓ All queries run without error	Queries provided for all questions but: ✓ Queries provide the expected results, with non-efficient code. -OR- ✓ 1-2 queries do not provide the expected result (including errors)	✓ Queries not provided for all of the questions -AND- ✓ 3 queries do not provide the expected result (including errors)	✓ Queries not provided for all of the questions -AND- ✓ 4 or more do not provide the expected result (including errors) -OR- ✓ No queries provided	

Bonus

	Mastery	Approaching Mastery	Emerging
	10 points	5 points	0 points
Bonus	The bonus does all of the following: ✓ 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	The bonus does 3 of the following: ✓ 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	The bonus does 2 or fewer of the following: ✓ 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 -OR- ✓ Bonus not completed -OR- ✓ Failed to generate plot