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	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: ✓ All required columns ✓ Columns are set to the correct data type ✓ Primary Keys set for each table ✓ Tables are correctly related using Foreign Keys	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: ✓ All required columns ✓ Columns are set to the correct data type ✓ Primary Keys set for each table ✓ Correctly references related tables. ✓ Correctly uses NOT NULL condition on necessary columns	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: ✓ 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	1 table schema should run without error, and the Entity Relationship Diagram may omit tables, but must include at least one of the following: ✓ 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 NOT NULL condition on necessary columns -OR- ✓ No Entity Relationship Diagram is included or no table schemas provided.	No submission was received -OR- Submission was empty or blank -OR- Submission contains
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	✓ 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)	evidence of academic dishonesty

	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