Please follow the steps below. You can submit your Python code via an HTML/PNG screenshot of a notebook or a .ipynb, .py File. Please ensure whatever you submit shows your SQL and/or Python code.

1) Create a Python function to read in the files in the <database.db> file and count the number of records and show the schema/columns for each table.
2) Open the attached <ERD.png>, which is a ERD of the database enclosed in the .db file as your guide, in the subsequent steps.
3) Write a query in your Python code/Jupyter cell for each of the following questions. Show the result and the SQL string or PANDAs methods you used to get to the correct answer. *SQL strings to solve all of the questions are not required. We are just concerned about your ability to come up with a solution and deliver an answer to the question using the underlying .db file and Python or Python with SQL.
    a) By viewing the ERD image, do you think this Database is a Snowflake or a Star schema?
    b) How many different Customers are there?
    c) Which Genre has the shortest average track length, in minutes?
    d) Using the ‘playlists’ table, can you tell me the name of the artist that appears the most in playlists?
    e) What is the count of Customers who have bought more than $40 of tracks?
    f) Which Key did you use the most?