**Practical Exam Instructions:**

**Objective:** The purpose of this test is to evaluate your ability to analyse and interpret data from multiple sources, clean the data, draw insights, and provide actionable recommendations.

**Context:** Data was extracted from multiple databases; the results of the extraction was recorded in text files attached. You are given two datasets representing information about health facility databases. The datasets contain fields like the Facility Name, Database Name, File Size, Site Id, and Status of the extraction. The goal is to assess the performance, reliability, and any anomalies in the data extraction process.

**Example 1**

Facility Name | Luveve | Database Name | Luveve030724.sql |File Size: 4650.540654182434 | Site Id: ZW090A06 | Status: Successful

**Interpretation:**

* Facility Name or clinic name is Luveve
* The data was extracted from a database that was named Luveve030724
* The database size was 4650.540654182434 MB
* The Site code of the facility is ZW090A06 (Each facility must have a unique site code)
* The data was successfully extracted

**Example 2**

Facility Name | - | Database Name | Luveve030724.sql |File Size: 4650.540654182434 | Site Id: ZW090A06 | Status: Already Processed

**Interpretation:**

* The facility name was not extracted.
* The data was extracted from a database named **Luveve030724**.
* The database size is **4650.54 MB**.
* The site code of the facility is **ZW090A06** (Each facility must have a unique site code).
* The data was not extracted because the system detected a previous extraction had already been performed for the facility with site code **ZW090A06**.

**Expectations:**

* **Code Quality:** Ensure that your code is clean, well-documented, and modular.
* **Data Storytelling:** Your analysis should highlight key insights and trends, with clear explanations of what the data reveals.

**Submission:**

* Provide a Jupyter notebook or Python script with your analysis, along with a brief written report summarizing your key insights.
* Include all necessary plots and visualizations using any tool of your choice.