1. Establish a database connection to the mysql database

2. Create a survey_report table if it doesn't exist. If it does, we need to insert the data into the table, we don't need to create it again. a. we need to async create this table for faster.

```
CREATE TABLE IF NOT EXISTS survey_report (
    primary key employee_id INT,          // employee_name table
    first_name VARCHAR(255),              // employee_name table
    last_name VARCHAR(255),               // employee_name table
);
```

3. Initialize an empty list to store the data

```
survey_report_data = [
    {
        employee_id: 1,
        first_name: "John",
        last_name: "Doe",
        ...
    },
    ...
]
```

4. For each employee in the result:

   a. Retrieve employee id from the survey_result table, and use the id to get the employee details from the employee_name table.

   ```python
   employee_id = survey_result.employee_id
   employee_details = employee_name.get(employee_id)
   ```

   b. Get the attribute id from the survey_result table, and use the id to retrieve every key from the survey_attribute table.

   ```python
   attribute_id = survey_result.attribute_id
   attribute_keys = survey_attribute.get(attribute_id)
   ```

AttributeId	AttributeName
1	AbsentEmployeeReason
2	Certifications

c. Use the attribute id to find ValueCode from the survey_result table, and use the ValueCode to get the ValueDescription from the value_set table.

```python
value_code_id = survey_result.value_code_id
value_description = value_set.get(value_code_id)
```

EmployeeId	AttributeId	ValueCode
1001	1	2001
1001	2	2002

ValueCode	ValueDescription
2001	Family Emergency
2002	First Aid Training

d. Prepare the data push into a list.

```python
list_data = [{
        employee_id: employee_details.employee_id,
        first_name: employee_details.first_name,
        last_name: employee_details.last_name,
        AbsentEmployeeReason: value_description,
        Certifications: value_description,
        Cohort: value_description,
        Department: value_description,
        EmployeeAdmins: value_description,
        Gender: value_description,
        HireGroups: value_description,
        ItemizedFunction: value_description,
        ItemizedIndustry: value_description,
        JobAcceptanceDetails: value_description,
        OfficeLocation: value_description,
        OutreachCoach: value_description,
        OutreachStatus: value_description,
        RetireDate: value_description,
        StopFeed: value_description,
        TrackingCompleted: value_description,
```

```
        WorkExperienceFunction: value_description,
        WorkExperienceIndustry: value_description,
        YearsofExperience: value_description
    },
    ...
]
```

EmployeeId	AbsentEmployeeReason	Certifications
1001	Family Emergency	First Aid Training

note: Above a, b, c steps, we need to get these datas by using async function for faster. Once we get the data, we can push it into the list.

5. Empty the survey_report table.

```
TRUNCATE TABLE survey_report;
```

6. Insert all lists into survey_report.

```
INSERT INTO survey_report (EmployeeId, FirstName, LastName,
<survey_columns>)
VALUES (<corresponding_values>);
```

7. Close the database connection.

```
cursor.close()
conn.close()
```