**Q1. Table Creation and Initial Query:** In the session linked to your first account, run the **emp.sql** script to create the EMP table. Then, perform a query on this EMP table.

**Query:**

**Select \* from emp;**

Result:

A screenshot of a computer

Description automatically generated

**Q2. Cross-Account Table Access:** Using the session for your second account, attempt to query the EMP table from your first account (e.g., SELECT \* from C## USER USER57501.EMP). Document either the result or the error message received, explaining the latter if applicable.

**Result**: The result of accessing the table using second account resulted in error. Since the user didn’t have permission, it couldn’t access it.

**Error: Permission was denied.**

**Result:**

A black screen with white text

Description automatically generated

**Q3. Privilege Granting:** From your first account, grant SELECT (query) privileges on the EMP table to your second account.

Query: GRANT SELECT ON emp TO testUser;

**Q4. Verification of Access Post-Privilege Grant:** Re-test the accessibility of the EMP table from your second account by querying the table again. Record the result or any error message encountered.

Query:

**Select \* from emp;**

**Result:**

A screenshot of a computer

Description automatically generated

**Q5. Insert Operation by Second Account:** In your second account, attempt to insert a new record to the EMP table (to which you’ve been granted access). Provide the outcome or any error encountered, with an explanation if necessary.

Result: At first I got error since the user only had access to select and wasn’t able to update the table. But then I gave the second user (testUser) the necessary permission to update the contents of the table.

Below is the result of update query **after giving the necessary permissions**:

A screen shot of a computer

Description automatically generated

**Q6. Synonym Creation:** Within your second account, create a synonym for the EMP table located in your first account. Use this template:

CREATE SYNONYM EMP FOR \_\_\_\_.EMP;

**Result: In POSTGRESS there’s no direct replacement for SYNONYM, and so I’m using alias name to access the employee table.**

**Query: SELECT \* FROM public.EMP;**

**Q7. Query Using Synonym:** Post-synonym creation, use your second account to query the EMP table via the established synonym.

Query:

**Select \* from public.EMP;**

Output:

A screenshot of a computer

Description automatically generated

**Q8. Revocation of Privileges:** From your first account, revoke the previously granted query privileges on the EMP table from your second account.

Result Query:

REVOKE SELECT ON emp FROM testUser;

**Q9. Final Access Test:** Following the revocation, use your second account to attempt a query on the EMPT table again. Report either the successful result or the error message, providing an explanation for the latter.

Result:

After revoking the permission, the second user wasn’t able to access the table and **got permission denied error.**

**Output:**

A black screen with white text

Description automatically generated

This indicates that the user attempted to access a table without the necessary privileges.