DBMS LAB-01(05-12-2024)

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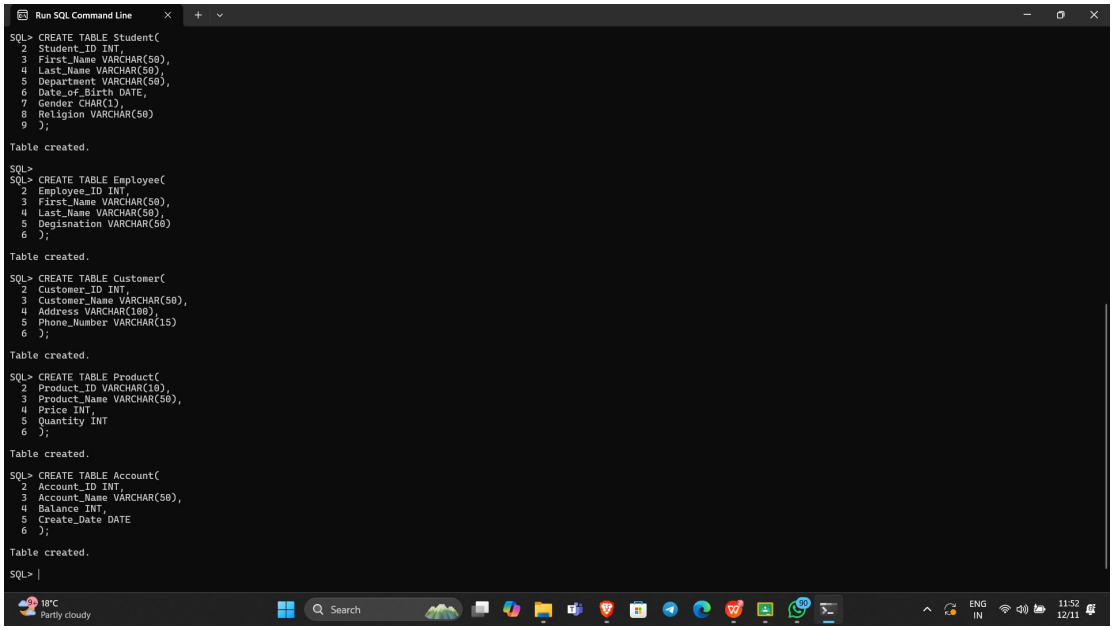
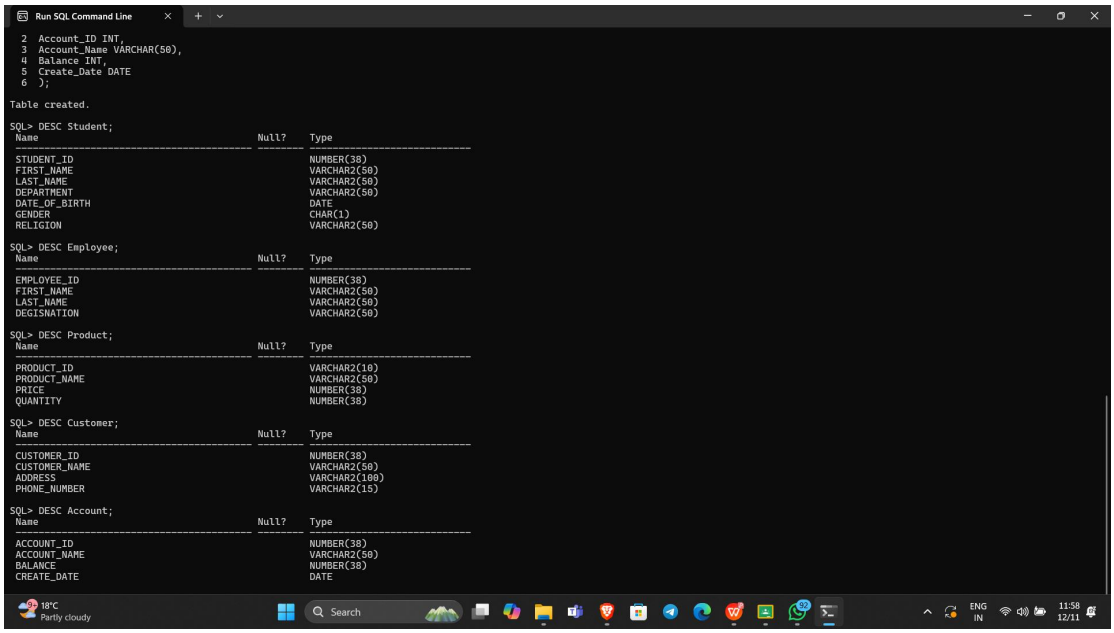
1. Create tables for - Student(student_id, first_name, last_name, dept, Date_of_birth, gender, religion), Employee, Product, Customer, and Account.
Identify relevant attributes for each table make sure each table has at least four columns. Ensure each table has an ID column e.g. Employee should have EMPLOYEE_ID column, Student should have STUDENT_ID column etc.

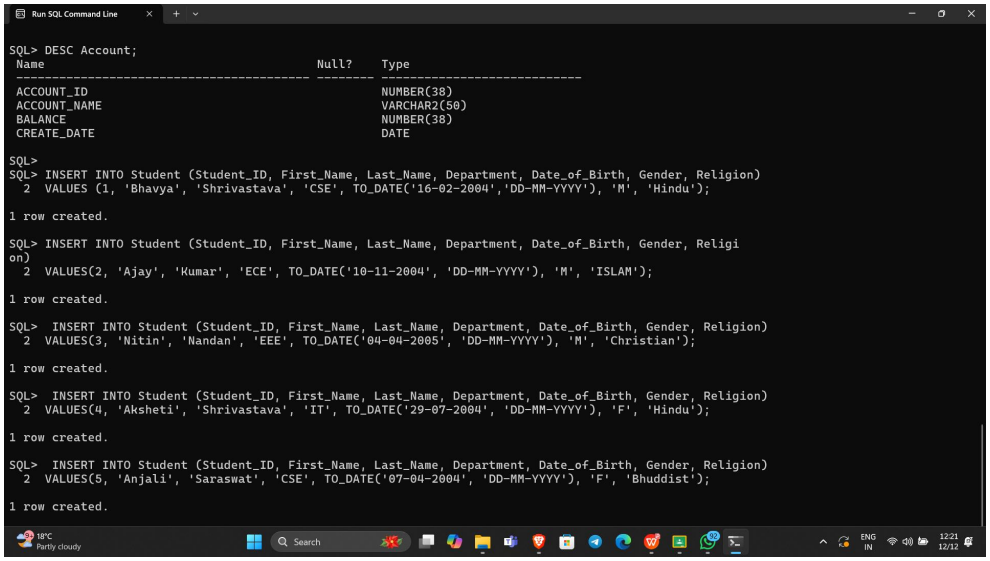


2. Describe each table.

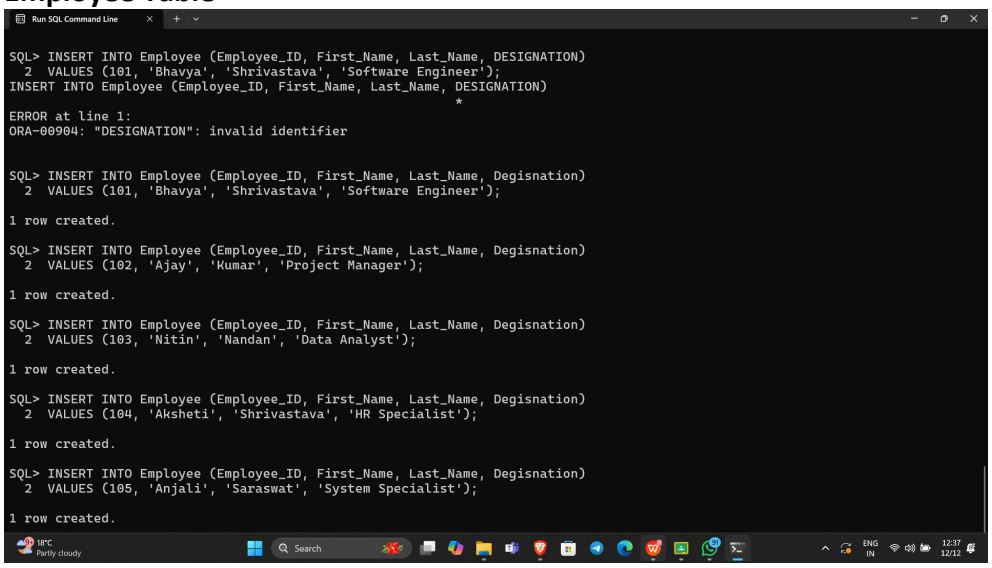


3. Insert at least 5 distinct rows to each table.

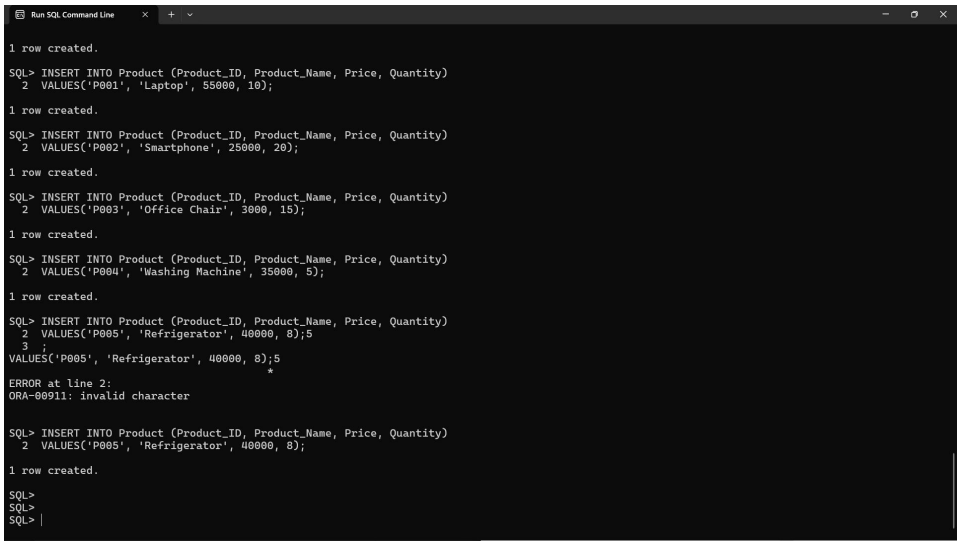
Student Table



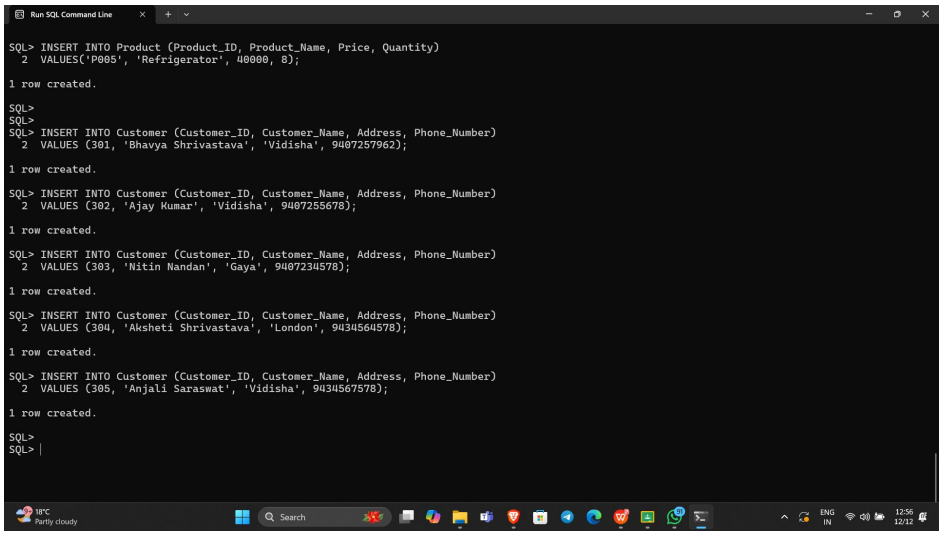
Employee Table



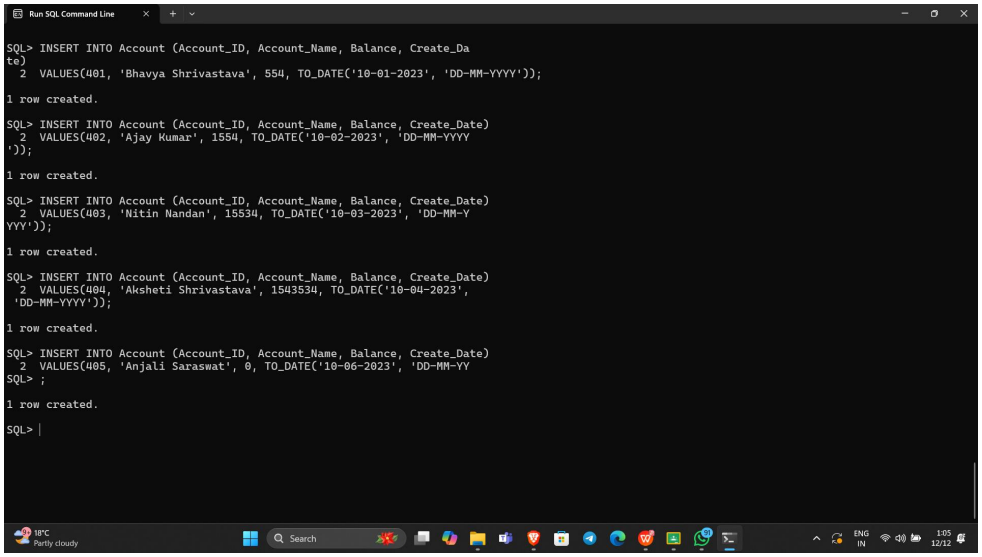
Product Table



Customer Table

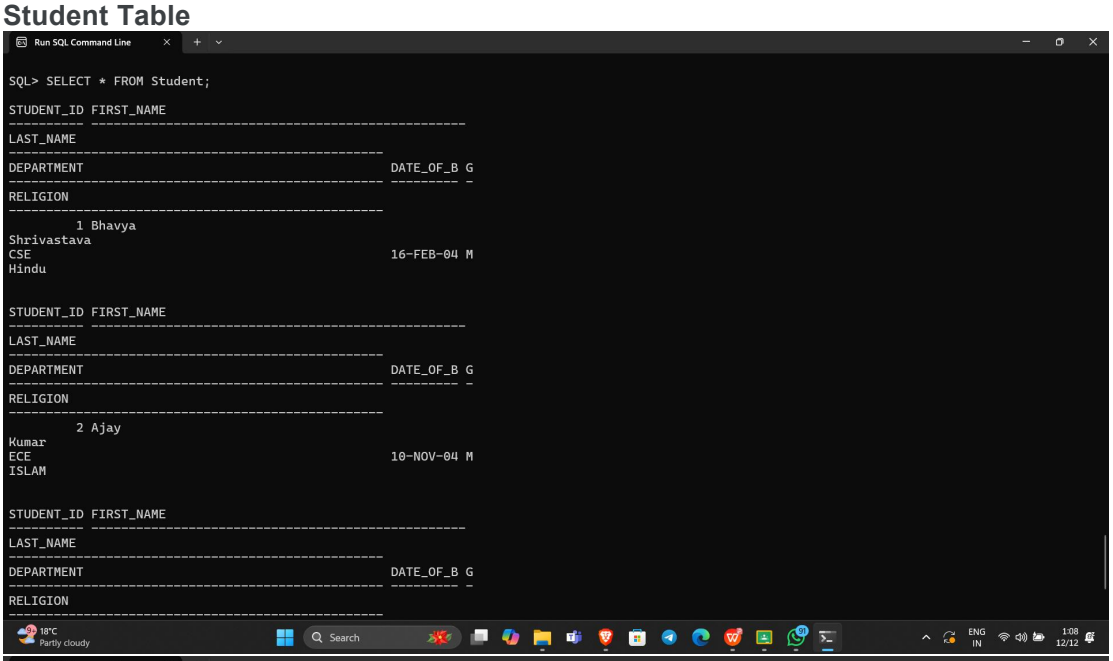


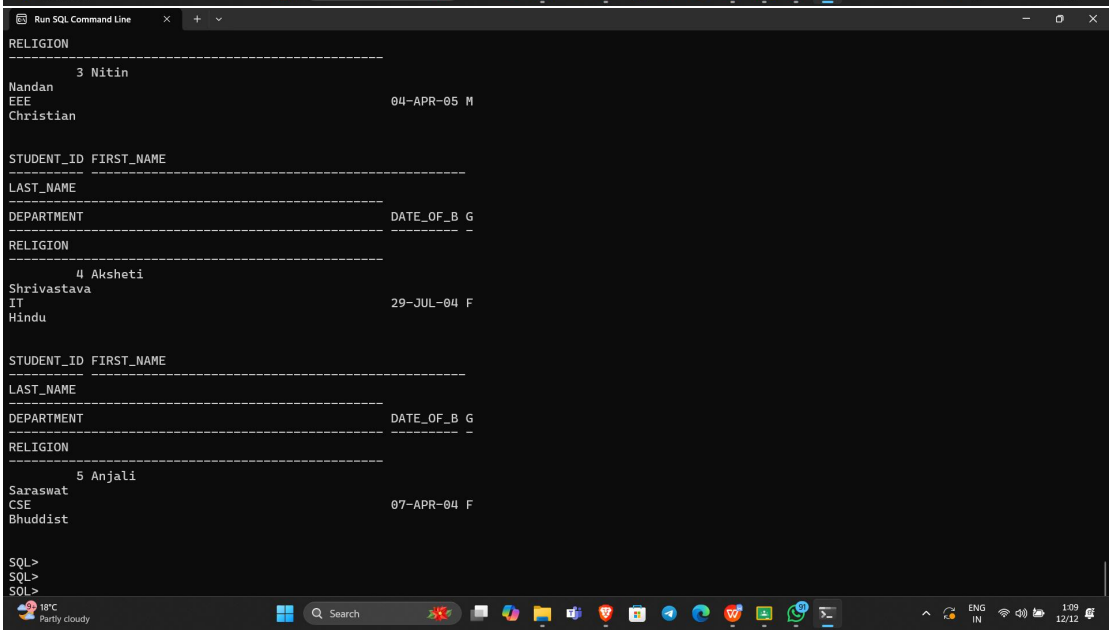
Account Table



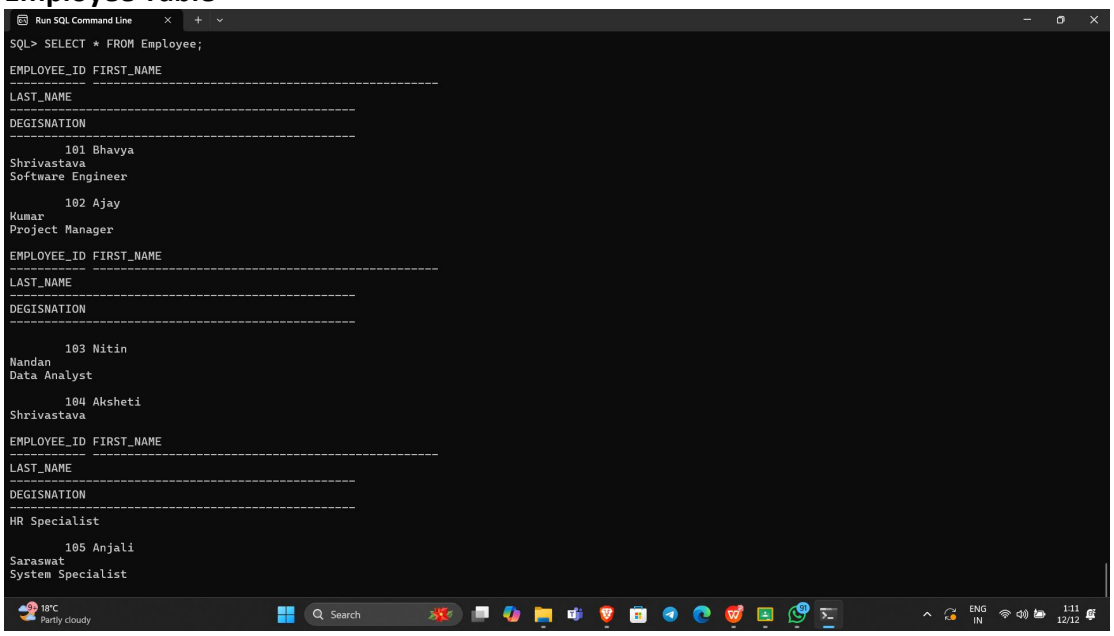
4. Fetch all data from the respective tables.

Student Table

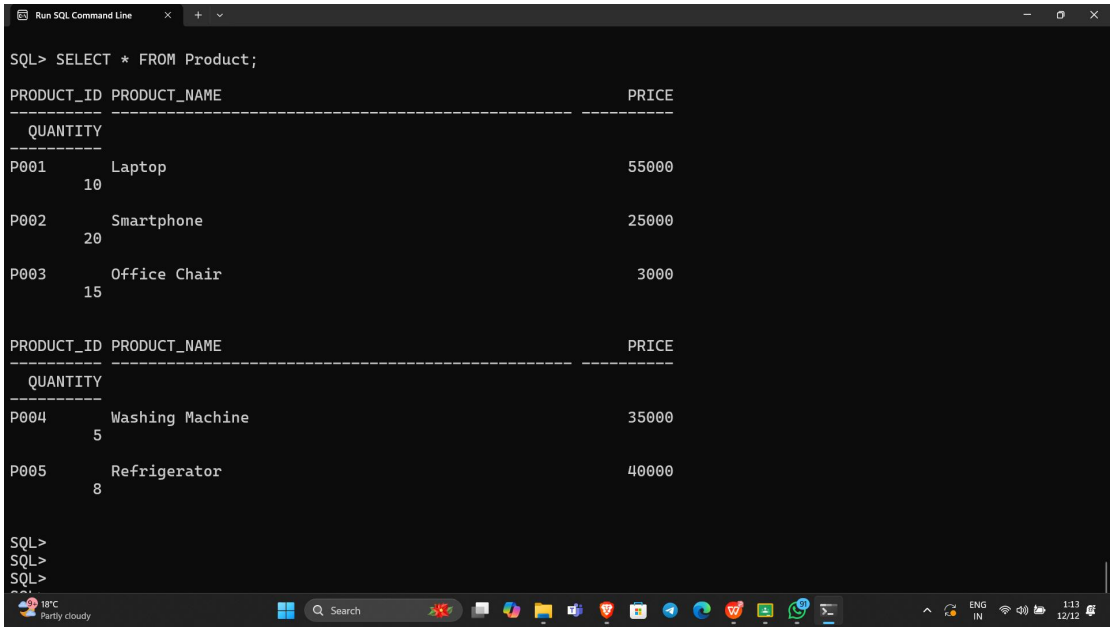




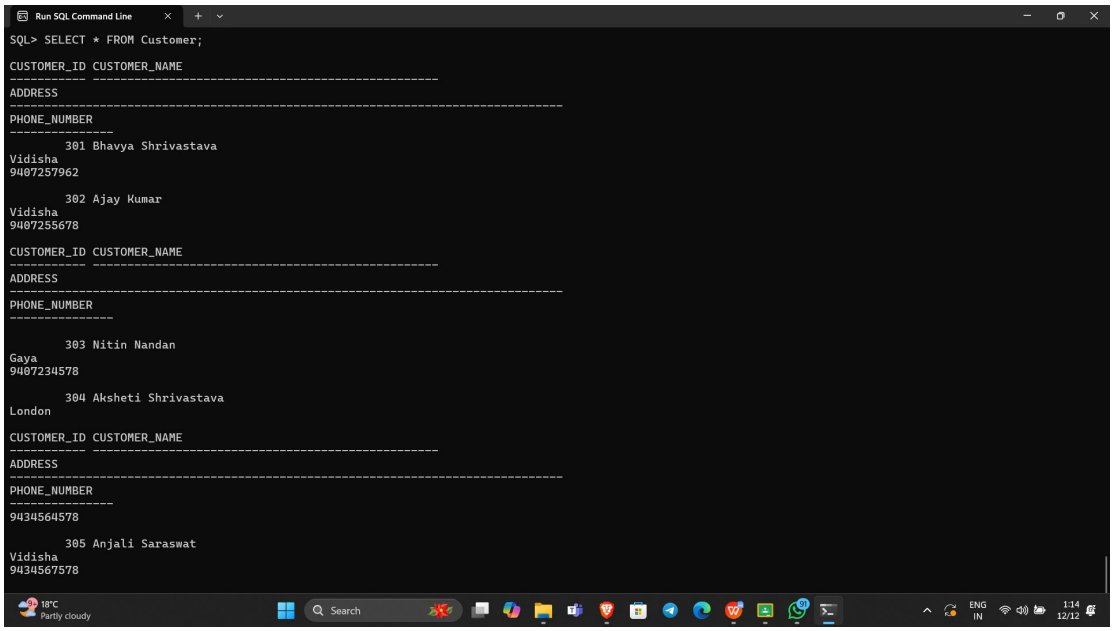
Employee Table



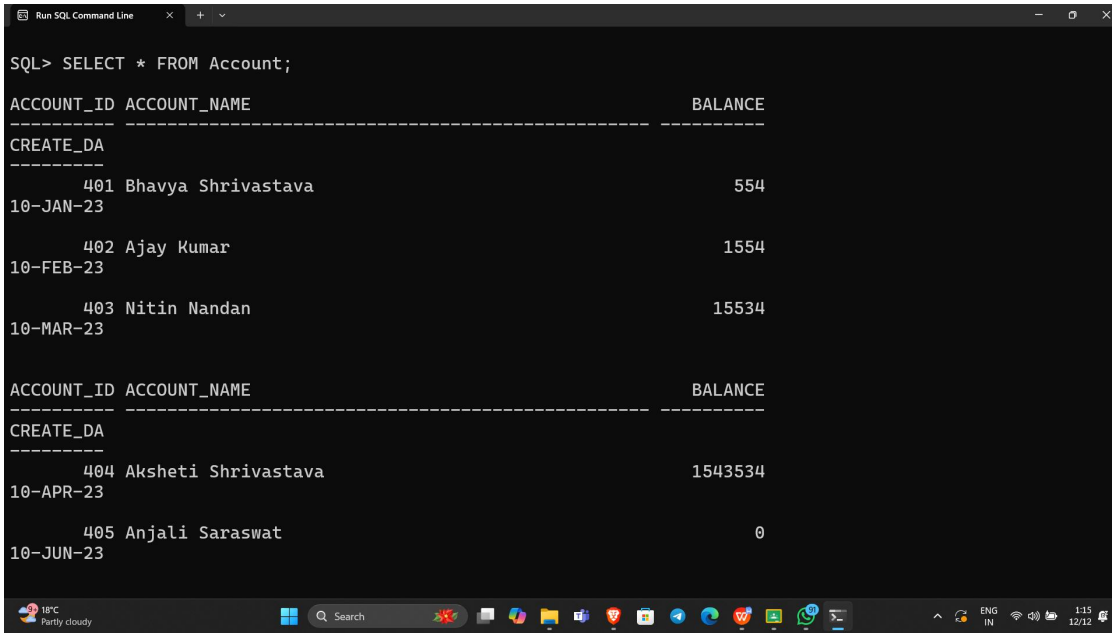
Product Table



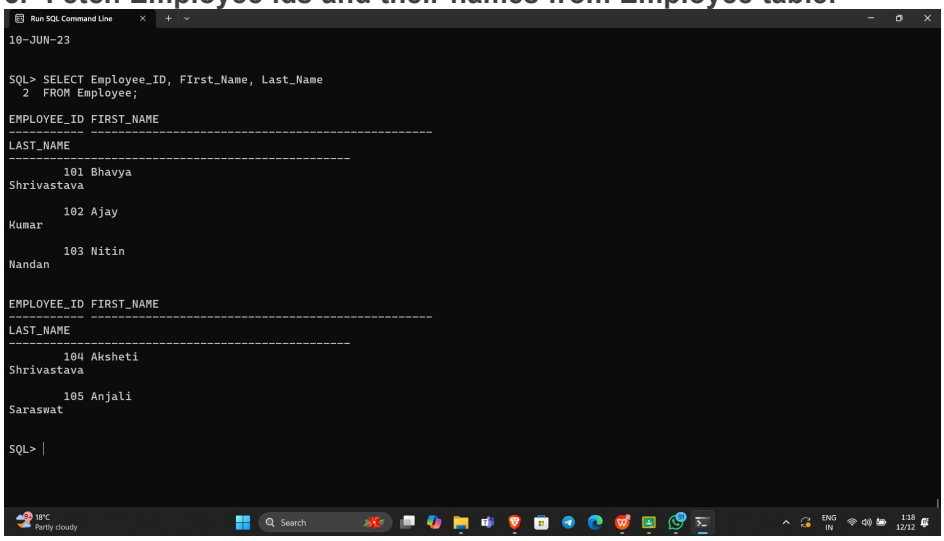
Customer Table



Account Table



5. Fetch Employee ids and their names from Employee table.



6. Create table YOUTH (f_name, l_name, sex, DOB) from the Student table.

```
SQL> CREATE TABLE YOUTH AS
  2  SELECT First_Name AS f_name,
  3  Last_Name AS l_name,
  4  Gender AS sex,
  5  Date_of_Birth AS DOB
  6  FROM Student;

Table created.

SQL>
```

7. Delete all data from the customer table.

```
SQL> DELETE FROM Customer;

5 rows deleted.
```

8. Delete the Account table.

```
SQL> DELETE FROM Account;

5 rows deleted.
```

9. Fetch the f_name and DOB from YOUTH table.

```
SQL> SELECT f_name, DOB
  2  FROM YOUTH
  3  ;

F_NAME                                             DOB
-------------------------------------------------- ---------
Bhavya                                             16-FEB-04
Ajay                                               10-NOV-04
Nitin                                              04-APR-05
Aksheti                                            29-JUL-04
Anjali                                             07-APR-04
```

10. Insert a new record into the Youth table. And keep NULL value in the l_name column.

```
SQL>
SQL> INSERT INTO YOUTH (f_name, l_name, sex, DOB)
  2  VALUES('Bhavya', NULL, 'M', TO_DATE('16-02-2004', 'DD-MM-YYYY'));

1 row created.
```

11. Insert a new record into the Employee table. And keep NULL value in the employee_id column.

```
SQL>
SQL> INSERT INTO EMPLOYEE (Employee_ID, First_Name, Last_Name, Degisnation)
  2  VALUES(NULL, 'Madhvi', 'Jain', 'Data Manager');

1 row created.
```

12. Change the name of the employee table to workers.

```
SQL> ALTER TABLE EMPLOYEE RENAME TO WORKERS;

Table altered.
```

13. Increase the size of the dept field in the student table by 10.

```
SQL> ALTER TABLE STUDENT MODIFY Department VARCHAR(60);

Table altered.
```

14. Add a column ph_no in the student table.

```
SQL> ALTER TABLE STUDENT ADD (ph_no VARCHAR(12));

Table altered.
```

15. Drop the religion attribute from the student table.

```
SQL> ALTER TABLE STUDENT DROP COLUMN RELIGION;

Table altered.
```

16. Rename the student_id field to roll_no in the student table.

```
SQL> ALTER TABLE STUDENT RENAME COLUMN Student_ID TO Roll_No;

Table altered.
```

17. Change the datatype and size of the product id column in the product table.

```
SQL>
SQL> ALTER TABLE Product MODIFY Product_ID VARCHAR(20);

Table altered.
```