Lab 8

Self Practice Activity

Task: To practice working with different types of keys in a MySQL database by creating tables and defining keys.

1. Create a new MySQL database named "inventory\_db."
2. Create a table named "products" with the following columns:
   * **product\_id** (Primary Key, Integer)
   * **product\_name** (String)
   * **category** (String)
   * **price** (Decimal)
   * **stock\_quantity** (Integer)

Ensure that the **product\_id** is set as the primary key for this table.

1. Create a table named "customers" with the following columns:
   * **customer\_id** (Primary Key, Integer)
   * **customer\_name** (String)
   * **email** (String)
   * **phone** (String)

Set the **customer\_id** as the primary key.

1. Create another table named "orders" with the following columns:
   * **order\_id** (Primary Key, Integer)
   * **customer\_id** (Foreign Key referencing **customer\_id** in the "customers" table, Integer)
   * **order\_date** (Date)

Define the foreign key constraint to ensure referential integrity.

1. Insert at least two records into each of the "products" and "customers" tables.
2. Insert at least one order into the "orders" table, referencing one of the customers.