

Lab Assessment 3

Part 1: Database Setup

Task 1: Create the tables with necessary constraints from the previous lab ER diagram.

Instructions:

- Ensure all appropriate integrity constraints are applied when creating the tables.
- Ensure that foreign keys maintain referential integrity between the *respective* tables wherever applicable.

Part 2: Data Insertion and Validation

Task 2: Insert sample data into tables created:

- Insert at least 3 tuples in each table

Instructions:

- Attempt to insert data that violates one or more constraints, such as:
 - A duplicate value in key.
 - Insert the out of bound values.
 - Check the primary key value will be null.
 - foreign key violation.

Expected Results:

- Prepare the document and write your observation.

Part 3: Data Modification and Deletion

Task 3: Perform the update and delete operations using SQL query.

Instructions:

- After attempting the operations, provide the results and explain how the integrity constraints enforce data consistency.

Deliverables:

- SQL scripts for creating the tables, inserting, updating and deleting the values from table.
- Inserted data and the results of any attempted constraint violations (screenshot).
- Explanation of the results when constraints are violated.