

Department of Computer Science & Engineering, RUET

CSE 502, Lab 04, Due date: C Day (next)

Problem title: Design database schema and populate the database with appropriate datasets.

Believe you have got many resources and confident about the SQL and database management system already. Please provide enough efforts for the solution of the following problems.

Customer(Cust id: *integer*, cust_name: *string*)
Item(item id: *integer*, item_name: *string*, price: *integer*)
Sale(bill no: *integer*, bill_date: *date*, qty_sold: *integer*)

For the above schema, perform the following—

1. Create the tables with the appropriate integrity constraints, insert around 10 records in each of the tables
2. Design the relationship set table to associate the relationship among the given entity set.
3. Give a count of how many products have been bought by each customer.
4. List the total Bill details with the quantity sold, price of the item and the final amount

Your report should contain the followings:

1. Introduction to the problem.
2. Problem statement.
3. Designed database (i.e., Relational or Entity Relationship model)
4. Submitted query at the Query processor.
5. Results/output
6. Conclusion

The report must be handwritten for the all the laboratory tasks and should not be copied by any means.

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