CSI T5300: Advanced Database Systems

E04: SQL - Part 3 - Exercises

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• **Schema:** Suppose a bookstore has the following five relational tables:

  Book (\textit{bid}, title, \textit{aid}, subject, quantity\_in\_stock)
  Author (\textit{aid}, first\_name, last\_name)
  Customer (\textit{cid}, first\_name, last\_name)
  Order-Details (\textit{oid}, \textit{bid}, quantity)
  Order (\textit{oid}, \textit{cid}, order\_date)

• **Assumptions:**
  - Primary keys are \textit{underlined} and foreign keys are in red and \textit{italics}
  - Each book has exactly one author
  - Each order is made by exactly one customer and has one or more associated records in Order-Details (e.g., an order may contain different books)
Exercise – Q1

Q1: Create the tables using SQL
Exercise – Q2

Q2: Customer with id = 1001 purchases all the books of the author(s) with last name “Dickens” on “08/03/2013” in a single order (assume that all these books are in stock). This new order gets id = 12345. Add the appropriate records in the database.
Q3: Delete customer with id = 1001 from the database