Lab Activity

Complete the following SQL exercises using the JustLee Books database. Launch Oracle APEX, type in your statement, and execute it. Code and execute each exercise separately. Save both your statement and the results to a Word document. After all queries have been completed, submit the Word document to the appropriate location.

JustLee Books requires several structural changes to its database to support its latest business ventures.

1. Create a new table named StoreReps. It should contain the following columns: RepID, data type of number and a length of 5, and is the primary key; LastName, data type of variable character and a length of 15; FirstName, data type of variable character and a length of 10; Comm, data type of character and a length of 1, default value of Y.

2. Change the StoreReps table so that NULL values can't be entered in the first and last name columns.

3. Change the StoreReps table so that only a Y or N can be entered in the Comm column.

4. Add a column named BaseSalary with a data type of NUMBER(7,2) to the StoreReps table. Ensure that the amount entered into this column is greater than zero.

5. Create a new table named BookStores. It should contain the following columns: StoreID, data type of number and a length of 8, and is the primary key; Name, data type of variable character and a length of 30, constraints of UNIQUE and NOT NULL; Contact, data type of variable character and a length of 30; RepID, data type of variable character and a length of 5.

6. Add a constraint to the BookStores table to ensure the RepID matches a RepID on the StoreReps table (referential integrity). If you get an error due to data type mismatch, make the appropriate change to the BookStores table so the constraint can be added.

7. Modify the constraint from exercise 6 so that associated rows in the BookStores table are deleted automatically if a row in the StoreReps table is deleted.

8. Create a new table named RepContacts. It should contain the following columns: StoreID, data type of number and a length of 8; Name, data type of number and a length of 5; Quarter, data type of character and a length of 3; RepID data type of number and a length of 5. In addition, add the following constraints: RepID, StoreID and Quarter should be the composite primary key; StoreID and RepID should follow referential integrity.

9. Produce a list of information about all constraints on the StoreReps, BookStores and RepContacts tables.

10. Issue the commands necessary to disable and then enable the CHECK constraint on the BaseSalary column of the StoreReps table.

© Kevin Throckmorton and Indian Hills Community College