

Instructional Scenario

Product Inventory Table



Course/Duty Area: Database Design and Management/Modifying and Managing Tables

Scenario:

RetailMart, a nationwide retail chain, needs to create a new table to manage their product inventory. The table should store the following information:

- product identification number
- product name
- product category
- quantity in stock
- reorder level
- unit price
- supplier identification number
- whether the product has been discontinued.

Big Question:

What coding is required to create a table with check constraints and foreign keys?

Focused Questions:

- Which data types are appropriate for the required fields?
- How is a check constraint coded?
- What is the proper syntax to add foreign key and check constraints?
- How do you query the data dictionary to view information regarding constraints?

Student Project or Outcome:

- Properly code the CREATE TABLE statement in SQL.
- Use a database application such as MySQL or PostgreSQL to create the table.

Teacher Resources:

- [Database Design and Management](#), Visual Paradigm
- [5 Best Database Management System \(DBMS\) Books](#), Find Career Info

Scenario submitted by Christopher Truong, Broad Run High School, Loudoun County Public Schools