ISTE-230 Introduction to Database & Data Modeling

Homework # 2 – Interpret, Transpose, and Implement a Single Entity E-R Diagram in MySQL

DUE: Feb. 6

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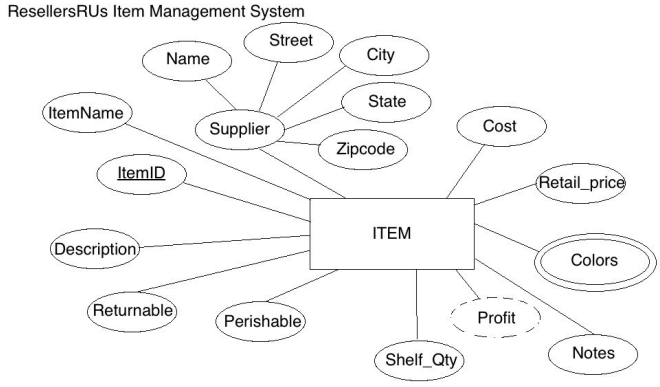
Submit to the Homework #2 dropbox, this document edited to include your answers AND the script file created for Part 3.

Part 1

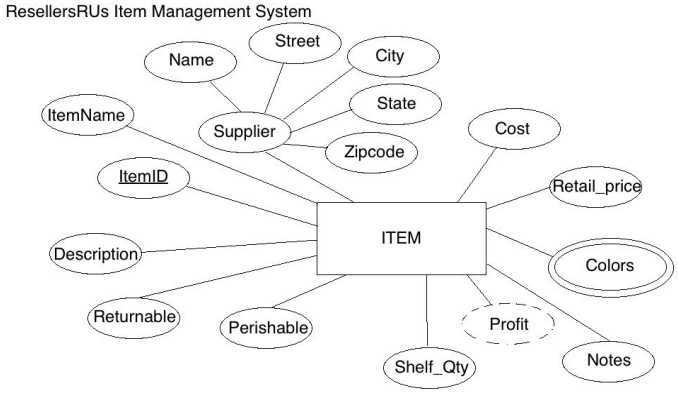


For the table below, please classify each attribute specified based on the E-R diagram above. Please place the best answer for each column that best describes the attribute.

Attribute	**Composite or Simple**	**Single-valued or Multi-valued**	**Stored or Derived**	**Identifier ? (Yes or no)**
Profit	simple	single	derived	no
Street	simple	single	stored	no
ItemID	simple	single	stored	yes
Supplier	composite	single	stored	no
Colors	simple	multi	stored	no

Part 2

Using relational structure notation, please transpose the E-R diagram below.



Your Answer: ITEM(zipcode, state, city, street, name, itemname, itemid, description, returnable, perishable, shelf_qty, notes, color1, color2, color3, color4, color5, retail_price, cost)

Part 3

Create a script that includes the statements that will create a database called 'HW2' that includes a table for ITEM, based the relation above in Part 2 and the specifications in the table below. Use ONLY the data types discussed so far (CHAR, VARCHAR, INT, and DATE).

Attribute(s)	**Data type description**
All other attributes that are not listed below	Variable-length string up to 25 characters
State	Fixed-length string of 2 characters
Zipcode	A string that could accommodate either of the formats below: '#####-####' or '#####'
Cost; Retail_price	Variable-length string up to 10 characters
Notes; Description	Variable-length string up to 255 characters
Returnable; Perishable	Will store one character
Shelf_Qty	A whole number between 0 and 50000