

ISTE-230 Introduction to Database & Data Modeling

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

DUE: September 11, 2022 by 11:30pm

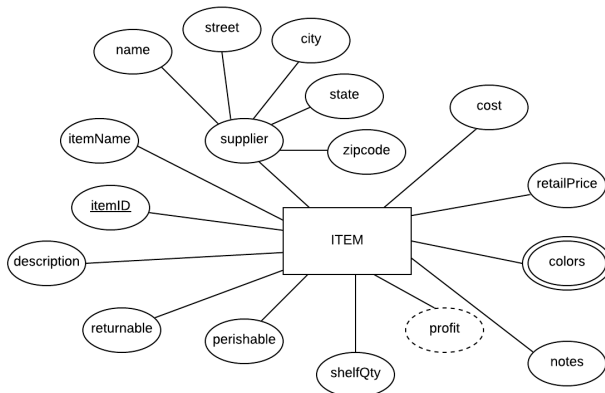
Name: _____

All assignments will be graded with regard to the coding standards that were discussed in class, which can be found in the Standards Content area.

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

Part 1 - 20 points

ResellersRUS Item Management System



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.

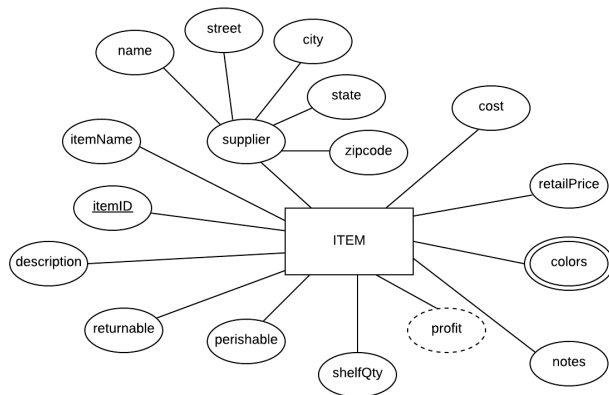
Attribute	Composite or Simple	Single-valued or Multi-valued	Stored or Derived	Identifier ? (Yes or no)
profit				
street				
itemID				
supplier				
colors				

Part 2 - 19 points

Using relational structure notation, transpose the E-R diagram below into a relational schema. You do not need to normalize the relation.

NOTE: The transposed ITEM relation includes a 'colors' attribute, therefore it would not pass the 1NF (the criteria for a relation). Although the ITEM relation is not in 1NF, there is an approach that we will learn next week.

ResellersRUS Item Management System



Your Answer (relational schema):

Part 3 - 61 points

Create a script called '*yourlastname_HW2*' 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
itemID; itemName; name; street; city; colors	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; retailPrice	Variable-length string up to 10 characters
notes; description	Variable-length string up to 255 characters
returnable; perishable	Will store one character
shelfQty	A whole number between 0 and 50000

What to submit to the HW2 Assignment Folder:

- Your script file named as specified above
- A clean tee file named '*yourlastname_HW2*' that shows the execution of your script followed by the appropriate commands to show the database has been created and a listing of the attributes defined.