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CS 385

Lab 7

* 1. SELECT stateName

FROM State

WHERE stateAbrv =

(SELECT stateAbrv

FROM Store

WHERE storeNum =

(SELECT storeNum

FROM Receipt

WHERE receiptID =

(SELECT receiptID

FROM Cup

WHERE colorID =

(SELECT colorID

FROM Color

WHERE cupColor = ‘red’))));

* 1. SELECT COUNT(receiptID), cupColor, stateAbrv

FROM Cup JOIN Receipt JOIN State

WHERE Cup.receiptID = Receipt.receiptID;

* 1. SELECT MAX(colorID)

FROM Color

WHERE colorID =

(SELECT COUNT(colorID)

FROM Cup JOIN Receipt

WHERE MAX(receiptID);

1. Student(FirstName, LastName, StudentID, ShoeSize, FavoriteMovie, FavColorID, HTID)

StudentID 🡪 FirstName, LastName, ShoeSize, FavoriteMovie, FavColorID, HTID

FavoriteColor(Color, ColorID)

ColorID 🡪 Color

Pet(Name, Type, StudentID, PetID)

PetID 🡪 Name, Type

Hometown(City, HTID)

HTID 🡪 City

1. Answer here
   1. Insertion Anomaly:

You can’t add a car without a customer.

You have to have a rentalDate.

Deletion Anomaly:

If you delete a car you could delete the shop information.

If you delete a car you could delete the customer information.

Modification Anomaly:

If you want to change a carReg you will have to do it multiple times.

* 1. carReg 🡪 make, model, shopNo, shopLoc

custNo 🡪 custName

model 🡪 make

shopNo 🡪 shopLoc

shopLoc 🡪 shopNo