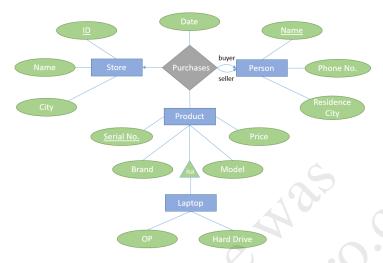
Name:	USC ID:

Quiz 6: Relational Modeling (10 points. 15 minutes)

1. [6 points] Convert the following E/R diagram (obtained from your last quiz) into a relational model. Use E/R approach in converting is-a relationships. Indicate the key attributes for each relation.



Store (<u>ID</u>, name, city)

Person (<u>name</u>, phone, city)

Product (serialNo, brand, price, model)

Laptop (<u>serialNo</u>, OP, hardDrive)

Purchases (store, buyer, seller, product, date)

Each wrong or missing attribute, including underlining key, results in 0.5 point deduction. Each wrong or missing relational model results in 1.5 points deduction. Failure to use E/R approach to represent is-a relationship results in 1.5 points deduction.

- 2. [4 points] Use the tables you obtained in the previous question. Write an SQL query for each of the following questions.
 - a. [2 points] Find names of persons whose **last** 4 digits of phone number are 1234 (e.g., "(626)555-1234" is such a number).

SELECT name FROM Person WHERE phone LIKE '%1234'; o.5 point deducted for each wrong or missing component.

b. [2 points] Find serial numbers of laptops whose HardDrive information is missing.

SELECT serialNo
FROM Laptop
WHERE hardDrive IS NULL;