

CSE 111 – DATABASE SYSTEMS

Quiz 1 (30 points)

Consider the following relational schema, provided as a `SQLite` database populated with sample data:

- `Product(maker, model, type)`
- `PC(model, speed, ram, hd, price)`
- `Laptop(model, speed, ram, hd, screen, price)`
- `Printer(model, color, type, price)`

Write **SQL** statements for the following queries (**5 points each**) in the given `quiz-1.sql` file:

1. What makers produce color Printers cheaper than \$120?
2. What makers produce PCs but do not produce Laptops and Printers?
3. For every maker that sells both PCs and Laptops, find the combination of PC and Laptop that has maximum price. Print the maker, the PC model, Laptop model, and the combination price (PC price + Laptop price).
4. What Laptop screen sizes are offered in at least 2 different models?
5. What Laptops are more expensive than all the PCs? Print the model and the price.
6. What makers produce at least a PC or Laptop model and at least 2 Printer models?

We will grade your quiz by running the `quiz-1.sql` file on the given database and another database populated with different data. So, make sure your **SQL** statements are general. You should test that your code works without errors by running the command `sqlite3 data.sqlite < quiz-1.sql` in the terminal. `quiz-1.sql` is the only file you have to turn in.