SQL Chapter 1 Homework

1. Data independence means that it is not dependent on other programs or structures of the stored data. Physical and Logical independence.
2. To reduce redundancies and have data relations.
3. It represents the employee, their name, department name and number, and employee number. it shows that the employee number: 10102 ‘s First name is Ann and the last name is Jones. She is in the Marketing Department and its department number is 3.
4. The works on table represent which employees are working on what project and the project start date. The employee number can be traced to the Employee1table and using the employee number you can see the employee's first name and last name. And the department number on the Works ON table can be traced to the employee1 table and see which department it matches to.
5. A) Title is the key B) Yes, isbn is dependent on title because each isbn represents a unique title of a book. C) yes the book table is in the 3form.
6. A) yes customer\_no is the key of the order table. B) no is not the key because it is dependent on order\_no.
7. It is not a normal form. It cant exist in 1NF because location is a multivalued attribute.
8. A) it is in 1NF. B) Supplier 1 is dependent on supplier\_no and article. Supplier2 is dependent on supplier\_no and city