Review Questions

=================

1. What is normalization?

2. When is a table in 1NF?

3. When is a table in 2NF?

4. When is a table in 3NF?

1. Normalization is a process to organize database to tables. The tables should focus on the specific topic only. The key point in this process is to reduce redundancy and improve data integrity.
2. A table is in 1NF when 1. there it has a PK, identifier for the record, 2. Each column contains atomic and indivisible values; 3. The values in each column should be in the same domain; 4. The order stored does not make difference.
3. A table is in 2NF when 1. It is in 1NF; 2. All non-key columns should be completely dependent to the key column.
4. A table is in 3NF when 1. It is in 2NF; 2. All non-key columns should be mutually dependent. In other words, non-key columns do not rely on any other non-key columns.