1. What causes a concurrency conflict?

A user navigates to the edit page for an entity.

Another user updates the same entity before the first user's change is written to the DB.

1. What happens when concurrecy is not handled?

The last update wins. That is, the last update values are saved to the DB.

The first of the current updates are lost.

1. Briefly describe the 3 options for applying Optimistic Concurrency.

You can keep track of which property a user has modified and update only the corresponding columns in the DB.

You can let John's change overwrite Jane's change.

You can prevent John's change from being updated in the DB. Typically, the app would

1. What two ways does EF Core handle concurrency?

If the values match, the operation can complete.

If the values do not match, EF Core assumes that another user has performed a conflicting operation and aborts the current transaction.

1. What exception is thrown when a concurrency violation is detected?

DbUpdateConcurrency

1. What data attribute is used on the rowversion column to enable concurrency tracking?

Timestamp

1. What is the name of the built-in T-SQL variable that contains the number of rows affected by a SQL statement?

@@ROWCOUNT

1. Do a screen print verifying that migrations and scaffolding of the Departments table and model have been applied.
2. Do a screen print demonstrating the concurrency handling while editing your choice of departments. (two separate browser windows must be used).
3. Do a screen print demonstrating the concurrency handling when deletion of a department occurs. (two separate browser windows must be used).