

1. Connection 1 had to wait because Connection 2 hadn't committed yet. If auto-commit isn't on, it blocks other connections from doing accurate reading/writing until you manually commit.
2. This case is different from the first case because Bob isn't blocked from reading Alice's state so she hasn't committed to being turned off so he sees she is on and he turns himself off as well.
3. Since the isolation is serializable it stops Bob from reading Alice's state until she commits her changes. Making it serializable means it is the only transaction happening even when there are 2 connections.
4. As a system designer, you should always make a compensating transaction operation. This makes it so it undoes a failed transaction. This will automatically occur if a transaction does fail.
5. If you buy an airline ticket and it fails before you receive it. As a system designer, I should add a compensating transaction operation. Or I would add a column for the person who bought that ticket. I would then in case of a fail go back to the reservation that passed and read that data and then send the ticket to the person.