3a)

4a)

i)

ii)

b)

Q4c) Rollback is used to revert the system back to it’s original state before the update.

Rollback is carried out to revert the system back to the clean state. Rollback is executed in the scenario where the updated patch in production does not work, a roll back is to return the system to it’s original state.

For example, if we are updating the attributes to a relation, employees, adding job scope and phone number to the relation.

ALTER TABLE employees

ADD job\_scope VARCHAR(50),

phone VARCHAR(40);

after altering the table, and deploying the application, there seems to be an issue. We are left with 5 minutes to go live, we have no choice but to execute the roll back script

ALTER TABLE employees DROP COLUMN job\_scope, phone;