

1. Primary key: ID, OfficeAddr

“Proof”:

ID, OfficeAddr

ID, OfficeAddr, ParkingSpot

ID, Name, Phone, AssistantID, RoomNumber, OfficeAddr, ParkingSpot

ID, Name, Phone, AssistantID, RoomNumber, OfficeAddr, Neighborhood, OfficePhone, Manager,
ParkingSpot

ID, Name, Phone, AssistantID, RoomNumber, Floor, View, Windows, OfficeAddr, Neighborhood,
OfficePhone, Manager, ParkingSpot

2. 2NF:

AGENT_PARKING (ID, OfficeAddr, ParkingSpot)

OFFICE (OfficeAddr, Neighborhood, OfficePhone, Manager)

AGENT (ID, Name, Phone, AssistantID, RoomNumber, Floor, View, Windows)



3. 3NF:

AGENT_PARKING (ID, OfficeAddr, ParkingSpot)

OFFICE (OfficeAddr, Neighborhood, OfficePhone, Manager)

AGENT (ID, Name, Phone, AssistantID, RoomNumber)

AGENT_ROOM (RoomNumber, Floor, View, Windows)



4. 1NF:

SELLER (SSN, Name, Phone)

5. Yes, this relation would produce redundancies. Functional dependencies:

Phone \rightarrow SSN

Phone \rightarrow Name

SSN \rightarrow Name

6. 3NF:

SELLER (SSN, Name)

SELLER_PHONE (SSN, Phone)

