Lab2: CSIT 115

(1)

STANDARD(name, room#, bed#, area)

PRIMARY KEY = (name, room#)

FOREIGN KEY = (name) REFERENCES ROOM(name)

DELUXE(name, room#, bed#, area, facilities)

PRIAMRY KEY = (name, room#)

FOREIGN KEY1 = (name) REFERENCES ROOM(name)

FOREIGN KEY2 = (facilities) REFERENCES FACILITES(facilities)

FACILTIES(facilities)

PRIMARY KEY = (facilities)

ROOM(name, room#, bed#, area)

PRIMARY KEY = (name, room#)

FOREIGN KEY = (name) REFERENCES HOTEL(name)

HOTEL(name, city, street, bldg.#, stars)

PRIMARY KEY = (name)

CANDIDATE KEY = (city, street, bldg#)

CHECKOUT(name, passport, when-left)

PRIMARY KEY = (name, passport)

FOREIGN KEY1 = (name) REFERENCES HOTEL(name)

FOREIGN KEY2 = (passport) REFERENCES GUEST(passport)

GUEST(passport, nationality, name, credit-card)

PRIMARY KEY = (passport)

CANDIDATE KEY = (nationality, credit-card)

(2)

PROPERTY(PNum, City, Street , HouseNum, OwnerPhone, Price)

Primary key = (PNum)

Candidate key = (City, Street, HouseNum)

Foreign key = (OwnerPhone) references OWNER(OwnerPhone)

OWNER(OwnerPhone, OwnerName)

Primary key = (OwnerPhone)

BUYER(BuyerPhone, BuyerName, City, Street, HouseNum)

Primary key = (BuyerPhone)

Candidate key = (City, Street, HouseNum)

PREFERENCE(BuyerPhone, City, Street, MaxPrice, MinPrice, PDate)

Primary key = (BuyerPhone, PDate)

Foreign key = (BuyerPhone) references BUYER(BuyerPhone)

INSPECTION(BuyerPhone, PNum, IDate)

Primary key = (BuyerPhone, PNum, IDate)

Foreign key 1 = (BuyerPhone) references BUYER(BuyerPhone)

Foreign key 2 = (PNum) references PROPERTY(PNum)

Your task is to perform reverse database engineering, i.e. to find a conceptual schema of

a database that has a collection of relational schemas given above. Use UMLetlet to draw

a conceptual schema found. Use an option File->Export as… to export your diagram into a

file solution2.bmp in BMP format.