(15 pts) From the logical model, define a relational schema in at least BCNF. Using functional dependencies, show that the schema in in at least BCNF. I'm expecting 6-10 relations for one student or 12-20 relations for two students. If in doubt of how much work a student should do, please ask the professor.

User(<u>user_id</u>, username, password, firstName, lastName)
- This is BCNF because username, password, firstName, and lastName FD on user_id.

UserFeedback(<u>feedback_id, user_id, cafe_id</u>, feedbackText, feedbackDate, rating)
- This is BCNF because user_id, cafe_id, feedbackText, feedbackDate & rating FD on feedback_id.

UserPreference(<u>preference_id, user_id</u>, cafePreference, minPrice, MaxPrice)
- This is BCNF because user_id, cafePreference, minPrice & MaxPrice FD on preference_id.

Lists(<u>list_id, preference_id</u>, listName, cost)
- This is BCNF because preference_id, listName & cost FD on list_id.

Cafe(<u>cafe_id, list_id, photo_id, location_id</u>, cafeName, cafeType, cafeDescription)
- This is BCNF because of list_id, photo_id, location_id, cafeName, cafeType & cafeDescription FD on cafe_id.

Photos(<u>photo_id</u>, photoName, url)
- This is BCNF because photoName & url FD on photo_id.

Location(<u>location_id</u>, country, city, neighborhood)
- This is BCNF because country, city & neighborhood FD on location_id.

Menu(<u>menu_id, cafe_id, beverage_id, food_id</u>, menuName, seasonal)
- This is BCNF because cafe_id, beverage_id, food_id, menuName & seasonal FD on menu_id.

FoodItem(<u>food_id</u>, foodName, foodPrice, foodDesciption)
- This is BCNF because foodName, foodPrice & foodDesciption FD on food_id.

BeverageItem(<u>beverage_id</u>, beverage, beveragePrice, beverageDescription)
- This is BCNF because beverage, beveragePrice & beverageDescription FD on beverage_id.

Is(<u>coffee_id, drink_id, beverage_id</u>)

- This is BCNF because coffee_id, drink_id, beverage_id are all connecting to Coffee, NoncaffeinatedDrinks, and BeverageItem table.

Coffee(<u>coffee_id</u>, beanType, typeOfCoffee, temperature)
- This is BCNF because beanType, typeOfCoffee & temperature FD on coffee_id.

NoncaffeinatedDrinks(<u>drink_id</u>, drinkType, temperature)
- This is BCNF because drinkType & temperature on drink_id.