

Database Design, CSCI 340, Spring 2016
Quiz 3, March 28

1. Consider the following relation with the given FDs and composite key.

Pickups								
ID	fName	lName	day	time	license	make	model	
3	Josh	Holiday	10/22/2015	8:00 AM	MT 53445	Toyota	Prius	
3	Josh	Holiday	10/22/2015	10:00 AM	MT 53445	Toyota	Prius	
3	Josh	Holiday	10/25/2015	10:00 AM	MT 53445	Toyota	Prius	
2	Jeannie	Potter	10/31/2015	3:00 AM	MT 53445	Toyota	Prius	
3	Josh	Holiday	10/31/2015	7:00 AM	51-8875	Ford	Ranger	
3	Josh	Holiday	10/31/2015	9:00 AM	51-8875	Ford	Ranger	
3	Josh	Holiday	10/31/2015	11:00 AM	51-8875	Ford	Ranger	
2	Jeannie	Potter	10/22/2015	8:00 AM	51-8875	Ford	Ranger	
4	Robert	Owen	10/22/2015	10:00 AM	MT1245A	Toyota	Camry	
1	Josh	Potter	10/25/2015	9:00 AM	MT1245A	Toyota	Camry	
1	Josh	Potter	10/25/2015	11:00 AM	MT1245A	Toyota	Camry	

$ID \rightarrow \text{fName, lName}$
 $\text{license} \rightarrow \text{make, model}$
 $ID, \text{day} \rightarrow \text{license}$

Key for this relation: ID, day, time

- a. If this relation is not already in BCNF, normalize it to a set of relations which are in BCNF. (10 pts.)

- b. Show each of the tables in your normalized design and include all data from the sample above. (5 pts.)