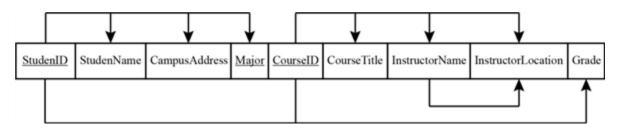
Grade Report

StudentID	StudentName	CampusAddress	Major	CourselD	CourseTitle	Instructor Name	Instructor Location	Grade
168300458	Williams	208 Brooks	IS	IS 350	Database Mgt	Codd	B 104	А
168300458	Williams	208 Brooks	IS	IS 465	Systems Analysis	Parsons	B 317	В
543291073	Baker	104 Phillips	Acctg	IS 350	Database Mgt	Codd	B 104	C
543291073	Baker	104 Phillips	Acctg	Acct 201	Fund Acctg	Miller	H 310	В
543291073	Baker	104 Phillips	Acctg	Mkgt 300	Intro Mktg	Bennett	B 212	Α

1. Table above shows a relation called GRADE REPORT for a university. Please complete the following assignment and a relational schema and diagram the functional dependencies in the relation.



- a. In what normal form is this relation?
- b. Decompose GRADE REPORT into a set of 3NF relations.
- c. Draw a relational schema for your 3NF relations and show the referential integrity constraints.

Shipment ID:		00-0001	Shipment Date:		01/10/2010	
Origin:		Boston	Expected Arrival:		01/14/2010	
Destination:		Brazil				
Ship Number:		39	Captain:		002-15	
					Henry Moore	
Item Number	Туре	Description	Weight	Quantity	TOTALWEIGHT	
3223	BM	Concrete	500	100	50,000	
		Form				
3297	BM	Steel	87	2,000	174,000	
		Beam				
				Shipment Total:	224,000	

- 2. Table above shows a shipping manifest. Please complete the following.
 - a. Draw a relational schema and diagram the functional dependencies in the relation.
 - b. In what normal form is this relation?
 - c. Decompose MANIFEST into set of 3NF relations.
 - d. Draw a relational schema for your 3NF relations and show the referential integrity constraints.
- 3. Why do we need to normalize the database? What if we don't?

- 4. Figure below show EER diagram for restaurant, its tables and the waters and waiting staff managers who work at the restaurant. Your assignment is to:
 - a. Develop a relation schema
 - b. Show the functional dependencies

c. Develop a set of 3NF relations

