Bike Races Normalization

Step 1) First Normal Form

					Cyclist				
	Race	Race	USAC	Cyclist	Fnam	Team			Ran
Race Name	Location	Date	#	Lname	е	ID	Team Name	Team Sponsor	k
	Flagstaff,	11/1/1	6789						
Monster Cross	AZ	2	9	Woods	Mike	4356	AZ Bikes	AZ Bike Shop	1st
	Flagstaff,	11/1/1	2434	Forema				Natural	
Monster Cross	AZ	2	5	n	Jill	3333	Health Stars	Grocers	2nd
	Flagstaff,	11/1/1	1234				Bike Rev	Bike	
Monster Cross	AZ	2	5	Smith	Joe	1122	Locals	Revolution	3rd
24Hr Mnt Bike		9/12/1	2434	Forema				Natural	
Madness	Sedona, AZ	2	5	n	Jill	3333	Health Stars	Grocers	1st
24Hr Mnt Bike		9/12/1	3324					Natural	
Madness	Sedona, AZ	2	5	Clark	Sam	3333	Health Stars	Grocers	2nd
24Hr Mnt Bike		9/12/1	6789						
Madness	Sedona, AZ	2	9	Woods	Mike	4356	AZ Bikes	AZ Bike Shop	3rd
Morman Lake Road	Flagstaff,	8/22/1	1234				Bike Rev	Bike	
Race	AZ	2	5	Smith	Joe	1122	Locals	Revolution	1st
Morman Lake Road	Flagstaff,	8/22/1	4458				NAU Bike		
Race	AZ	2	9	Jones	Gina	6579	Club	NAU	2nd
Morman Lake Road	Flagstaff,	8/22/1	1224				Bike Rev	Bike	
Race	AZ	2	6	Smith	Kelly	1122	Locals	Revolution	3rd

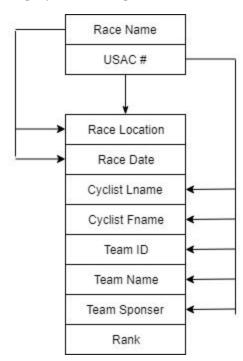
For first normal form I filled in all the empty tables.

Step 2) PK's

Race Name
USAC #

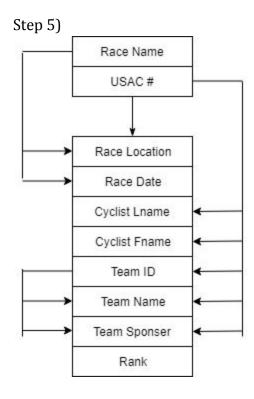
Race Location
Race Date
Cyclist Lname
Cyclist Fname
Team ID
Team Name
Team Sponser
Rank

Step 3) Partial Dependencies



Step 4) 2NF

Race (<u>Race Name</u>, Race Location, Race Date)
Cyclist(<u>USAC #</u>, Cyclist Lname, Cyclist Fname, Team ID, Team Name, Team Sponsor)
Cyclist_In_Race(<u>Race Name</u>, <u>USAC #</u>, Rank)



Step 6)
Race (<u>Race Name</u>, Race Location, Race Date)
Cyclist(<u>USAC #</u>, Cyclist Lname, Cyclist Fname, Team ID)
Cyclist_In_Race(<u>Race Name</u>, <u>USAC #</u>, Rank)
Team(<u>Team ID</u>, Team Name, Team Sponsor)

Step 7)

