Assume the following relational schema and tables for Quiz 1 questions 2-5

Vehicle(VRN, Ma, Mo, Color), Own(VRN, SSN), Person (SSN, Name, Addr, Phone)

Vehicle				O	Own			Person			
VRN	Ma	Mo	Color	VRN	SSN		SSN	Name	Addr	Phone	
123	Honda	Hawk	Red	123	bcd		abc	Dave	Birch	XXX	
234	Mazda	RX7	Blue	234	abc		bcd	Mary	Grove	ууу	
345	Ford	Taurus	Blue	456	def		cde	Sriram	Oak	ZZZ	
456	Ford	Ranger	Green	567	ghi		def	Fang	Birch	WWW	
567	Honda	Accord	Red	683	def		efg	Derek	Elm	uuu	
678	Mazda	RX7	Silver	795	abc		fgh	Joan	Elm	VVV	
789	VW	Bug	White	901	bcd		ghi	Xie	Oak	SSS	
890	Suzuki	Intruder	Black				hij	Gilford	Birch	ttt	
901	Harley	Sportste	r Black				3				
012	VW	Bug	Red								

Quiz 1 Your Name: \_\_\_\_

Honor code statement and signature: I understand that for this quiz I may NOT consult with other students regarding the quiz questions, nor can I share the quiz Content before 8:00 AM Tuesday Jan 15 2013. I understand that I MAY consult the textbook, videos, course Web site, and your own notes, however. I understand that I can take NO LONGER than 15 minutes to complete the quiz from the time of download.

Your signature:	

1. According to the course grading scheme, if you were to miss ALL of the course Meetings (plenary classes, study groups, and project team meetings with Doug), then the highest your total grade *percentage* could be

Answer: \_\_\_\_\_\_ 1 pt for this, all or nothing

Explain: If all meetings are missed, the attendance percentage rises to 25% and 0% of that 25% will be received

**1 pt** for something comparable, and 0.5pt for something not quantitative but qualitatively right, and 0 for anything else (probably 0 if they get the first part wrong)

2. Write a relational algebra query to return all rows (tuples) of Vehicle table in which Ma = 'Honda'

3. Write a relational algebra query to return only the VRN and Color of Vehicles with Ma = 'Honda'

$$\pi_{VRN,Color}\sigma_{Ma='Honda'}$$
 (Vehicle) 1 pt for this (parentheses optional), all or nothing, but VERY simple syntax differences (missing '') ok

4. Assume that Vehicle contains only the first two rows listed on the handout, and that Own only Contains the first two rows that are listed. Write the *result* of the relational algebra expression **Vehicle X Own**, where **X** signifies the relational algebra cross product operator

Vehicle			Own		
VRN	Ma Mo	Color	VRN	SSN	1 pt for this (order irrelevant, header optional),
123	Honda Hawk	Red	123	bcd	0.5 for a suspected "typo", and other
123	Honda Hawk	Red	235	abc	simple syntax differences (e.g., Vehicle.Color
<b>235</b>	Mazda RX7	Blue	123	bcd	or V.Color) ok
235	Mazda RX7	Blue	235	abc	01 ()

5. Using the full table of the handout write the result of the query

$$\pi_{Ma, SSN}$$
 (  $\sigma_{Color = 'Green'}$  (Vehicle  $\bigcirc$  Own))

1 pt for this (header optional), all or nothing

Ford def