Example 03: Database Management System

- 1. Consider the following Insurance database with these relations.
 - (i) person (nid, name, address)
 - (ii) car (<u>license</u>, year, model)
 - (iii)accident (date, driver, damage-amount)
 - (iv)owns (nid, license)
 - (v) log (license, date, driver)

a) Insert the following data into those relations

Person			
<u>nid</u>	name	Address	
123451	Arif	Rajshahi	
123452	Sumon	Moynamati	
123453	Sagor	Sirajgang	
123454	Abdul	Rajshahi	
123455	Himesh	Dhaka	
123456	Amirul	Sylhet	
123457	Sajib	Chittagang	

Car				
<u>license</u>	year	model		
12-3000	2012	Axio		
11-3000	2008	Corolla		
12-4000	2013	Axio		
12-5000	2013	Premio		
11-5000	2010	Nano		
11-6000	2011	Alto		
12-6000	2015	Nano Twist		

accident				
<u>date</u>	driver	d_amount		
12/01/2013	Arif	10000		
25/09/2015	Komol	12000		
20/06/2014	Bahadur	11000		
20/12/2011	Abdul	8000		
19/09/2015	Akter	7000		
15/05/2013	Arif	20000		
20/08/2014	Arif	15000		

	owns			
	Nid	<u>license</u>		
Ī	123451	11-3000		
Ī	123452	12-4000		
Ī	123453	12-5000		
Ī	123454	11-5000		
Ī	123455	11-6000		
Ī	123456	12-6000		
	123457	12-3000		

Log			
<u>license</u>	<u>date</u>	<u>driver</u>	
11-3000	12/01/2013	Arif	
12-4000	25/09/2015	Komol	
11-6000	20/06/2014	Bahadur	
11-5000	20/12/2011	Abdul	
12-6000	19/09/2015	Akter	
11-3000	15/05/2013	Arif	
11-3000	20/08/2014	Arif	

- b) Find the names of all person who live in Rajshahi.
- c) Which model was sold in 2013?
- d) Find the name of those driver where damage amount is between 10000 and 15000.
- e) Find the national id (nid) of those person who has Axio.
- f) Find the name and address of those person who has Alto.
- g) Who (driver) was involved in the accident by 20/12/2011?
- h) Who was the owner of the car with license 12-4000?
- i) Who was the owner of the car whose driver is Arif?
- j) Which car was involved in accident by 19/09/2015?
- k) Find the number of accidents in which the cars belonging to "Arif" were involved.
- l) Find the dates of accidents in which the cars belonging to "Arif" were involved.
- m) Modify the database so that "Arif" now lives in Natore.