

Example 03: Database Management System

1. Consider the following Insurance database with these relations.

- (i) person (nid, name, address)
- (ii) car (license, 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>	<u>driver</u>	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	
<u>Nid</u>	<u>license</u>
123451	11-3000
123452	12-4000
123453	12-5000
123454	11-5000
123455	11-6000
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.