# Example 03:
# Database Management System

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


   a) Insert the following data into those relations

**Person**

| nid | name | Address |
|-----|------|---------|
| 123451 | Arif | Rajshahi |
| 123452 | Sumon | Moynamati |
| 123453 | Sagor | Sirajgang |
| 123454 | Abdul | Rajshahi |
| 123455 | Himesh | Dhaka |
| 123456 | Amirul | Sylhet |
| 123457 | Sajib | Chittagang |

**Car**

| license | 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**

| date | 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 | license |
|-----|---------|
| 123451 | 11-3000 |
| 123452 | 12-4000 |
| 123453 | 12-5000 |
| 123454 | 11-5000 |
| 123455 | 11-6000 |
| 123456 | 12-6000 |
| 123457 | 12-3000 |

**Log**

| license | date | driver |
|---------|------|--------|
| 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.