**Honest Bob's Discount Warehouse**

Hint: there are 5 rules to be found

**Honest Bob's Discount Warehouse** of 23 Dubious Lane Cheapside NT 8023 needs a computerised invoicing system. Because Honest Bob is a cheapskate they are still using a paper-based system.

The organisation has a number of customers, which are all businesses (Honest Bob's does not deal with the general public, which avoids all the problems with GST). Information kept on customers includes their ABN (CustABN), business name and address (which includes the address, suburb, state and postcode). Because Honest Bob's is keen on keeping their customers and having them return time after time, the prices there are suspiciously cheap.

When a customer purchases products they are given an invoice that lists the items purchased. Generally customers purchase a number of different items of varying quantities each time. If a customer decides that they haven't got enough of a particular item, instead of increasing the quantity for that item, Honest Bob's staff just add it again to the bottom of the invoice and give the new, updated copy to the customer.

Details on the invoice include the customer details, an invoice number, a date, an item number, its description, price, quantity ordered, subtotals for each item line and an invoice total.

**Real estate firm**

Hint: there are 9 rules to be found

The firm has a number of sales offices in several states. Attributes of sales office include Office\_Number (identifier) and Location.

Each sales office is assigned one or more employees. Attributes of employee include Employee\_ID (identifier) and Employee\_Name. An employee must be assigned to only one sales office.

For each sales office, there is always one employee assigned to manage that office. An employee may manage only the sales office to which he or she is assigned.

The firm lists property for sale. Attributes of property include Property\_ID (identifier) and Location. Components of Location include Address, City, State and Zip\_Code.

Each unit of property must be listed with one (and only one) of the sales offices. A sales office may have any number of properties listed or may have no properties listed.

Each unit of property has one or more owners. Attributes of owners are Owner\_ID (identifier) and Owner\_Name. An owner may own one or more units of property. Owners own a percentage of a property.

**Courts**

Hint: there are 8 rules to be found

An attorney is retained by one or more clients for each case.

Attributes of attorney are: attorney\_id, name, address, city, state, zip\_code, specialty (may be more than one), bar (may be more than one).

A client may have more than one attorney for each case.

Attributes of client are client\_id, name, address, city, state, zip\_code, telephone, date of birth.

A client may have more than one case.

Attributes of case are case\_id, case\_description, case\_type.

An attorney may have more than one case.

Each case is assigned to one and only one court.

Attributes of court are court\_id, court\_name, city, state, zip\_code.

Each court has one or more judges assigned to it.

Attributes of judge are judge\_id, name, years in practice,

Each judge is assigned exactly to one court.