Assignment -3

Question 1: ER diagram to relational model: **[30 Marks]**

ER diagram of Bank has the following description :
- Customers are identified by cust-id, cust_name, cust_add,ph_no
- Customers hold one or more accounts.
- Accounts are identified by account_no., acc_type, balance.
- Customers perform Transactions.
- Transactions are identified by Tr_id, Tr_type
- Customers operate ATMs.
- Accounts are identified by ATM_id, cash limit, Location
- ATM belongs to bank
- Banks are identified by b_id, b_name, b_add
- Banks have branches.
- Branches are identified by br_add, br_name, br_id

Model an ER diagram for the above scenario and then convert the ER model into a relational model. Clearly indicate strong entity sets, key attributes, multi-valued attributes, composite attributes, one to many relationship, many to one relationship and one to one relationship(if any exists).

Reference: Slide number 119 for basic idea of ER model to relational model.