



ENTITY-RELATIONSHIP MODEL

PREPARED FOR

PROJECT Phase - II

DATA AND APPLICATIONS

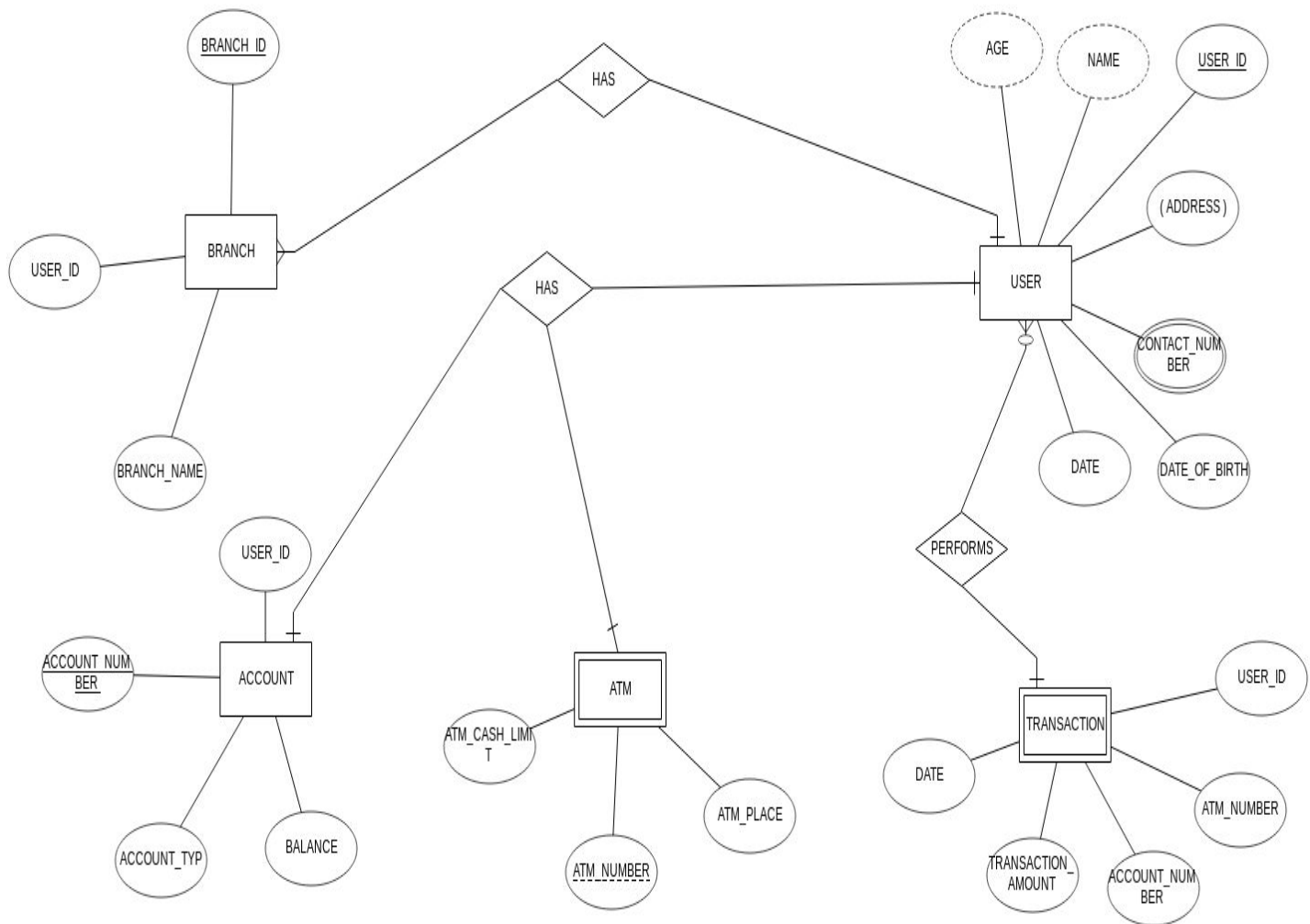
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1. ER MODEL based on the given SRS



2. OBSERVED FLAWS IN THE GIVEN SRS

- In the given SRS there is a one to one relationship between user and account. But one user can have more than one account which belong to different branches in the same bank. Thus, there should be a many-one relationship between **account** and **user**.
- According to the SRS it looks like each **ATM** has unique ATM number. therefore , it should be a regular entity not a weak one.
- The given relationship between an **account** and an **ATM** makes no sense. So this relationship needs to be removed.
- The given relationship between a **user** and an **ATM** makes no sense again. So this relationship needs to be removed.
- In the given SRS, the attribute name of a **user** is defined as both a composite and a derived attribute. Instead, it should be a composite only.
- There exists a many-one relationship between user and branch. So the user_id attribute of a branch should be multi-valued. That's why we have changed it name from user_id to users.
- There should be a **DoneBy** relationship between an **ATM** and a **transaction** specifying the ATM which did the transaction.

3. ER-MODEL AFTER REMOVING THE ABOVE FLAWS

