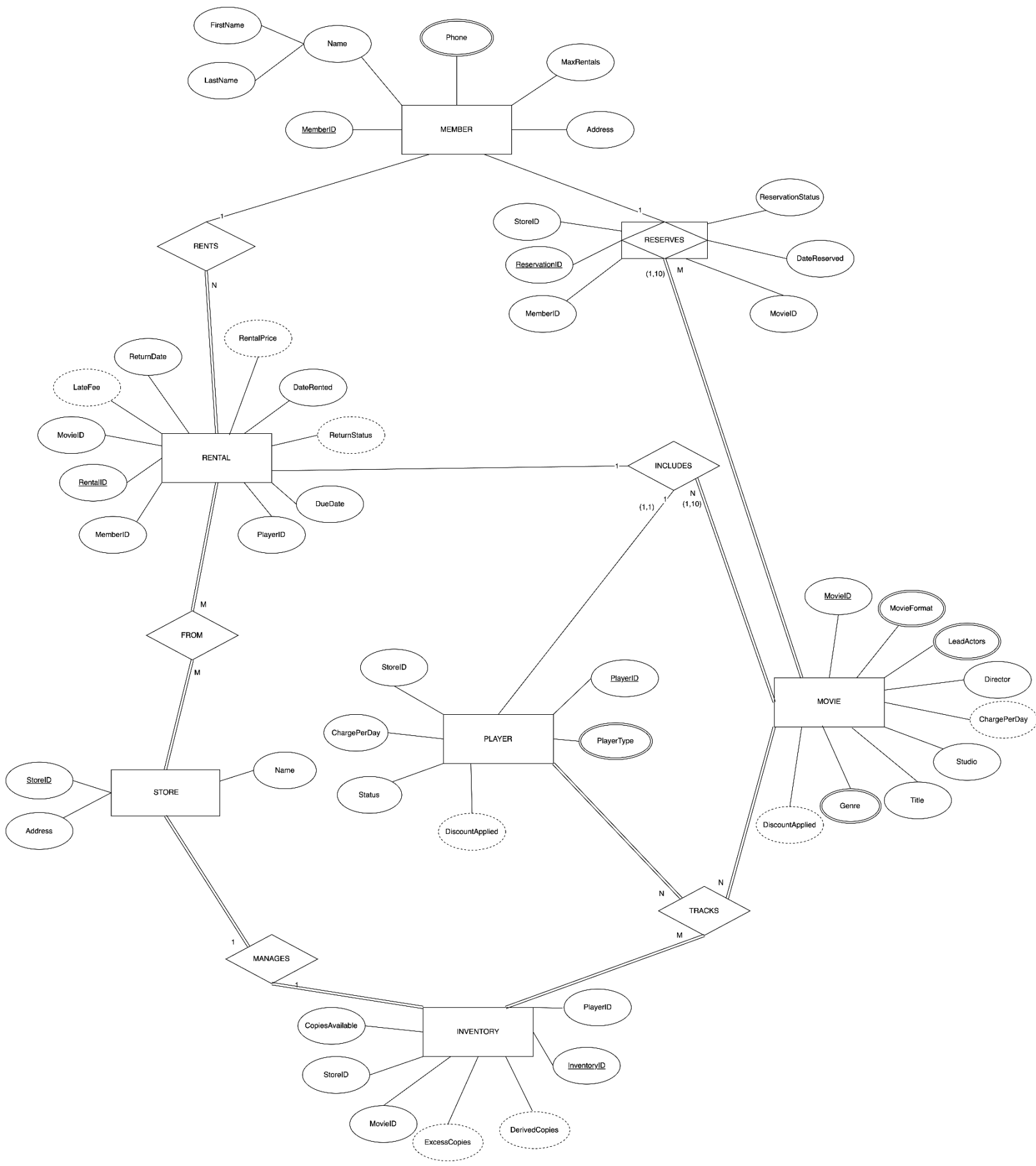


**TEAM MEMBERS:**

- LATA BHATTA
- ADAM KADERBHAI



- ✓ A **MEMBER** can have multiple **Rental** transactions.
  - A **MEMBER** can rent a rental multiple times
- ✓ Each **RENTAL** transaction includes at least one **MOVIE** and at most one **PLAYER**.
  - A **MEMBER** cannot rent a player without renting a **MOVIE**.
  - A **RENTAL** transaction must always include at least one **MOVIE** to be valid.
- ✓ A **MEMBER** can rent up to 10 **MOVIES** and 1 player per transaction.
  - This limit is enforced in the database through constraints.
- ✓ **MOVIES** can be returned to any store, but **PLAYERS** must be returned to the original store.
  - The **ReturnStatus** attribute is derived based on **DueDate** and **ReturnDate**.
- ✓ Each **STORE** has its own separate **INVENTORY**.
  - A **STORE** manages its own copies of **MOVIES** and **PLAYERS** without sharing with other stores in real time.
- ✓ A **STORE** can return excess copies of movies to the main headquarters for redistribution.
  - **ExcessCopies** is a derived attribute based on **CopiesAvailable**.
- ✓ Every **MOVIE** and **PLAYER** in the system must be tracked in **INVENTORY**.
  - The **Tracks** relationship is total participation for **INVENTORY**, **MOVIE** and **PLAYER**.
- ✓ A **MEMBER** can **RESERVE** multiple **MOVIES**, a **MOVIE** can also be **RESERVED** by many members.
  - The **Reserves** relationship is (M:N) between **MEMBER** and **MOVIE**.
- ✓ **RESERVATIONS** expire after a set period if not picked up.
  - The **ReservationStatus** field will indicate whether a reservation is still active.
- ✓ **RESERVATIONS** are store-specific.
  - A member must pick up a **reserved MOVIE** from the **STORE** they **reserved** it from.
- ✓ The price of **MOVIES** and **PLAYERS** is fixed per day.
  - **ChargePerDay** is an attribute of **MOVIE** and **PLAYER**, not **RENTAL**.
- ✓ A 10% discount is automatically applied for weekday **RENTALS**.
  - **DiscountApplied** is a derived attribute based on **DateRented**.

- If a rental occurs on a weekday, the system automatically applies a 10% discount.
- ✓ Late fees are calculated based on **DueDate** and **ReturnDate**.
- **LateFee** is a derived attribute and depends on the number of late days..
- ✓ A **STORE** can have multiple copies of a **MOVIE** in different **formats**.
- Copies are tracked separately for **DVD** and **Blu-ray**.
- ✓ Each entity has a unique identifier.
- **MemberID**, **RentalID**, **MovieID**, **PlayerID**, **StoreID**, and **InventoryID** are all **Primary Keys**.
- ✓ All relationships enforce referential integrity.
- Foreign key constraints ensure that rentals, reservations, and inventory tracking are consistent