

Q1. Identify the entities and attributes for this problem statement.

- all the entity and its related attributes are drawn inside the ER diagram

Q2. Identify if there are any composite/ multivalued/ derived attributes.

- multivalued attributes : address and name
- derived attributes : penalty

Q3. Identify what should be the primary key and foreign keys for the entities.

- primary key  (ref diagram)
- foreign key 

Q4. Identify the relationship name which should exist among the entities. Also, mention the cardinality ratio (1:1, 1:N, M:N) for each relationship.

1:1 relations are

- movie store and movie : we can have one store from where we can check for movie
- movie and director : There can be only one director for one movie
- movie and genres : There can be one genre for one movie

1:N relations are

- customer and rented record : one customer can rent many movies
- customer and sales record : one customer can buy many movies
- staff and sales record : one staff can sales many movies
- staff and rented record : one staff can rent many movies to customer
- movie and actor : one movie can have multiple actors
- actor and role_info : one actor can have many roles in the movies

M:N relations are

- movie and rented record : many movies can be rented by the customer