



Intro to Database Systems

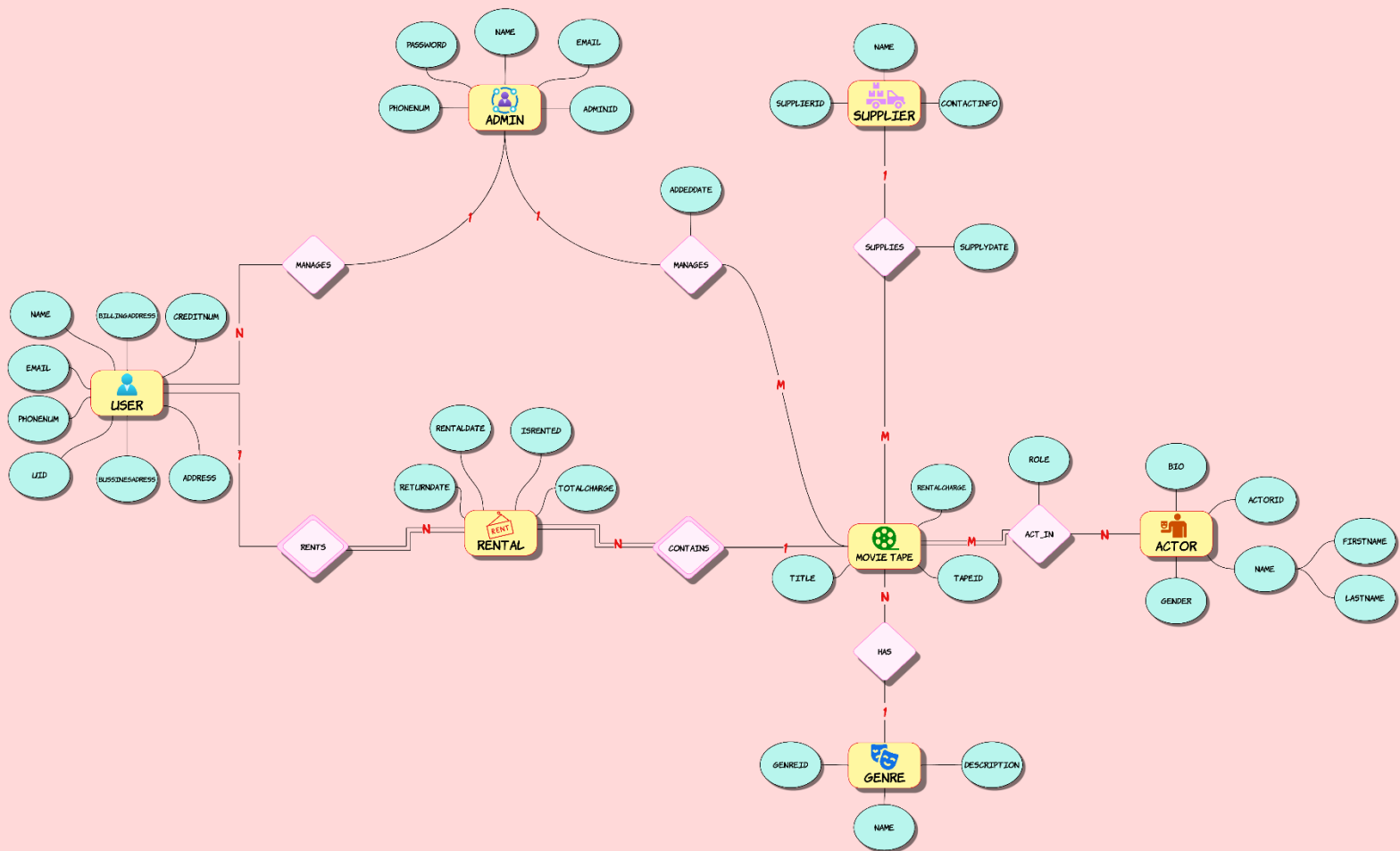
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Movie Rental Management System

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Entity Relation Diagram

[Diagram Link](#)



Functional Requirements:

A Movie Rental Management System can include the following functionalities:

<i>Functional Requirement Number</i>	Requirement
<i>FR1</i>	The system allows users and admins to sign up.
<i>FR2</i>	Users can update their personal details (email, phone, addresses, credit card).
<i>FR3</i>	Admins can add and update movie tapes and assign them to genres and suppliers.
<i>FR4</i>	Users can browse or filter movies by genre, year, supplier, or lead actor.
<i>FR5</i>	The system tracks tape availability and rental activity.
<i>FR6</i>	Rentals are tied to specific users and tapes and include date and charge.
<i>FR7</i>	The system records suppliers and their provided movies.
<i>FR8</i>	The system supports retrieving rental data per user and calculating total rentals per genre.

Assumptions

A set of assumptions and design choices made to support the system's functionality and required queries.

Assumptions

1	Each user must have a unique email and a valid credit card number.
2	Each movie tape has a unique ID, title, charge, genre, and supplier.
3	A user can rent multiple movies, and each rental is tracked with a date and charge.
4	A movie can belong to one or more genres.
5	A rental status is tracked to determine availability.
6	An admin can Accept a supplier's Request to add a movie.
7	Each user must have a unique email and a valid credit card number.