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Curr Trends in Database

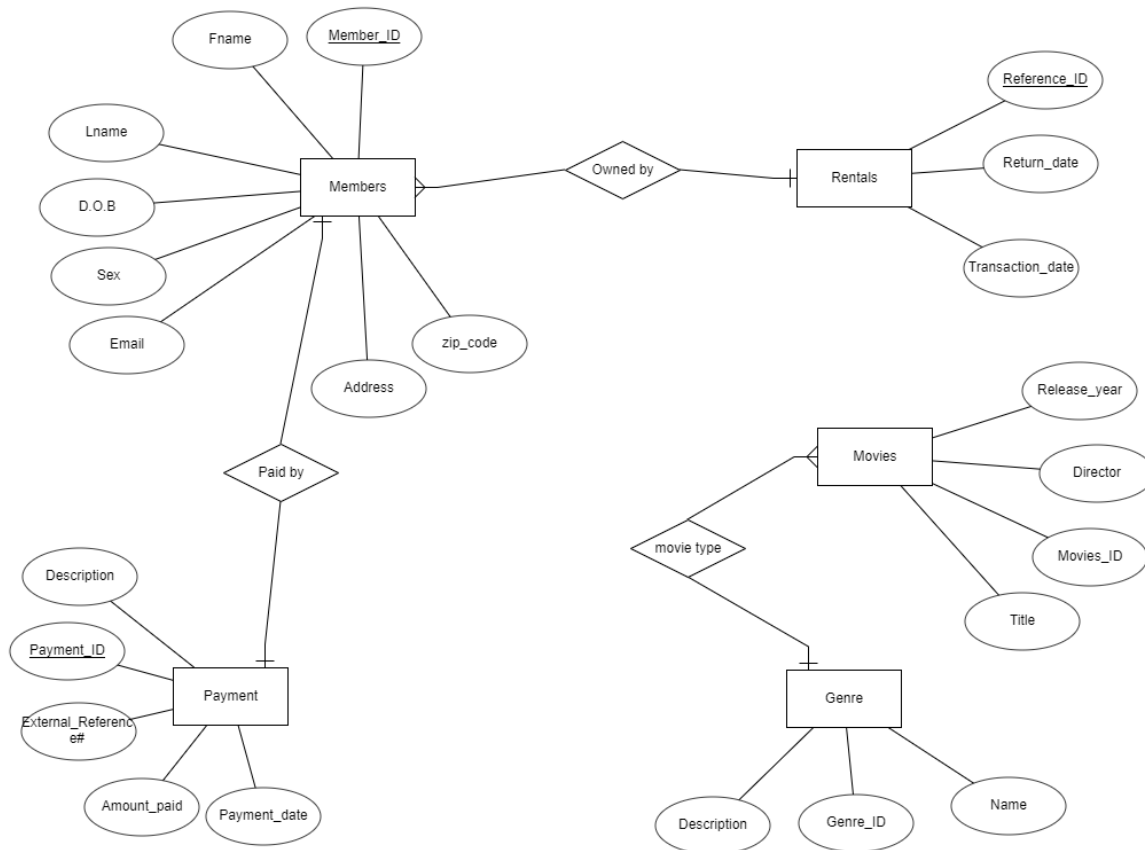
### Movie Rental Database

## Description

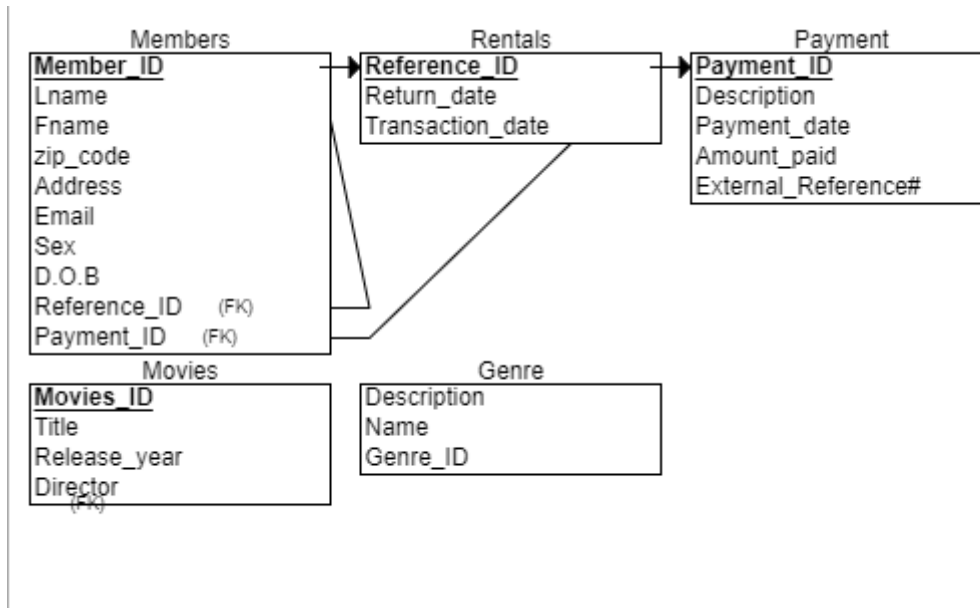
This is a movie rental database where members can rent a movie. There are 5 entities represented: Member, Movie, Rental, Genre, and Payment.

Each member will include the membership ID, the member's first and last name, their address, sex, birthday, email address, and their zip code. Each movie has a Movie ID, title, director, and release year. For each rental, the database will include a reference number, the date of the transaction, and the date that the movie must be returned by. The Genre portion consists of a genre ID, the name of the genre, and a description section. The payment section consists of a payment ID, the amount paid, the payment date, a description of the payment, and an external reference number.

## ER Diagram



### 3NF



### Database code

```
create table Members(  
    Member_ID    number(10) not null primary key,  
    Fname    CHAR(10),  
    Lname    CHAR(10),  
    D.O.B    DATE,  
    Sex char(1),  
    Address VARCHAR2(3 CHAR),  
    Zip_code NUMBER(7),  
    Email VARCHAR(15),  
    primary key (Member_ID));
```

```
create table Movies(  
    Movie_ID    number(10) not null primary key,  
    Title    VARCHAR2(10 CHAR),  
    Release_year    year,  
    Director    CHAR );
```

```
create table Rentals(  
Reference_ID  NUMBER(15) UNIQUE REFERENCES payment_ID,  
Return_date  date,  
Transaction_date date);
```

```
create table Payment(  
Payment_ID   number(10) UNIQUE REFERENCES Reference_ID,  
Description  char(100),  
External_reference#  NUMBER(10),  
Amount_paid  float);
```

```
create table Genre(  
Genre_ID    number(10) not null PRIMARY KEY,  
Name  CHAR(10),  
Description varchar(100) );
```

## Query code

```
INSERT INTO Members (Member_ID, Fname, Lname, Sex, D.O.B, Address, Zip Code, Email)  
VALUES ('12', 'Mark', 'Danieals', 'M', '12/12/1950', '23 Sinf Street', '77717',  
'mark@yahoo.com');
```

```
INSERT INTO Members (Member_ID, Fname, Lname, Sex, D.O.B, Address, Zip Code, Email)  
VALUES ('105', '$Will', 'Patrick', 'M', '1/24/1955', '23 Sinf Street', '77717', 'will@yahoo.com');
```

```
INSERT INTO Members (Member_ID, Fname, Lname, Sex, D.O.B, Address, Zip Code, Email)  
VALUES ('3', 'Taylor', 'Switch', 'F', '12/12/1950', '216 Fenley Road', '664532',  
"taylor23@gmail.com");
```

```
INSERT INTO Rentals (Reference_ID, Return_Date, Transaction_date) VALUES ('4031',  
'03/22/20', '01/22/20');
```

```
INSERT INTO Rentals (Reference_ID, Return_Date, Transaction_date) VALUES ('6973',  
'06/23/20', '03/30/20');
```

INSERT INTO Rentals (Reference\_ID, Return\_Date, Transaction\_date) VALUES ('4031', '08/01/19', '12/22/19');

INSERT INTO Payment (Payment\_ID, Description, External\_reference#, Amount\_paid, Payment\_date) VALUES ('333', 'paid with card', '342', '45.50', '01/22/20');

INSERT INTO Payment (Payment\_ID, Description, External\_reference#, Amount\_paid, Payment\_date) VALUES ('201', 'paid with card', '2232', '\$102.39', '12/24/19');

INSERT INTO Payment (Payment\_ID, Description, External\_reference#, Amount\_paid, Payment\_date) VALUES ('132', 'mobile payment', '3342', '20.99', '02/02/20');

INSERT INTO Payment (Payment\_ID, Description, External\_reference#, Amount\_paid, Payment\_date) VALUES ('382', 'cash', '2321', '234.23', '03/10/20');

INSERT INTO Movies (Movie\_ID, Title, Release\_year, Director) VALUES ('20430', 'Lion King', '2001', 'Stephen King');

INSERT INTO Movies (Movie\_ID, Title, Release\_year, Director) VALUES ('20303', 'Risen Sun', '1989', 'Clark Hill');

INSERT INTO Movies (Movie\_ID, Title, Release\_year, Director) VALUES ('372424', '\$The Shape of Water', '\$2018', 'Tony Chavez');

INSERT INTO Genre (Genre\_ID, Name, Description) VALUES ('1', 'Drama', 'Rated E');

INSERT INTO Genre (Genre\_ID, Name, Description) VALUES ('5', 'Horror', 'Rated R');

INSERT INTO Genre (Genre\_ID, Name, Description) VALUES ('2', 'Comedy', 'Rated R');