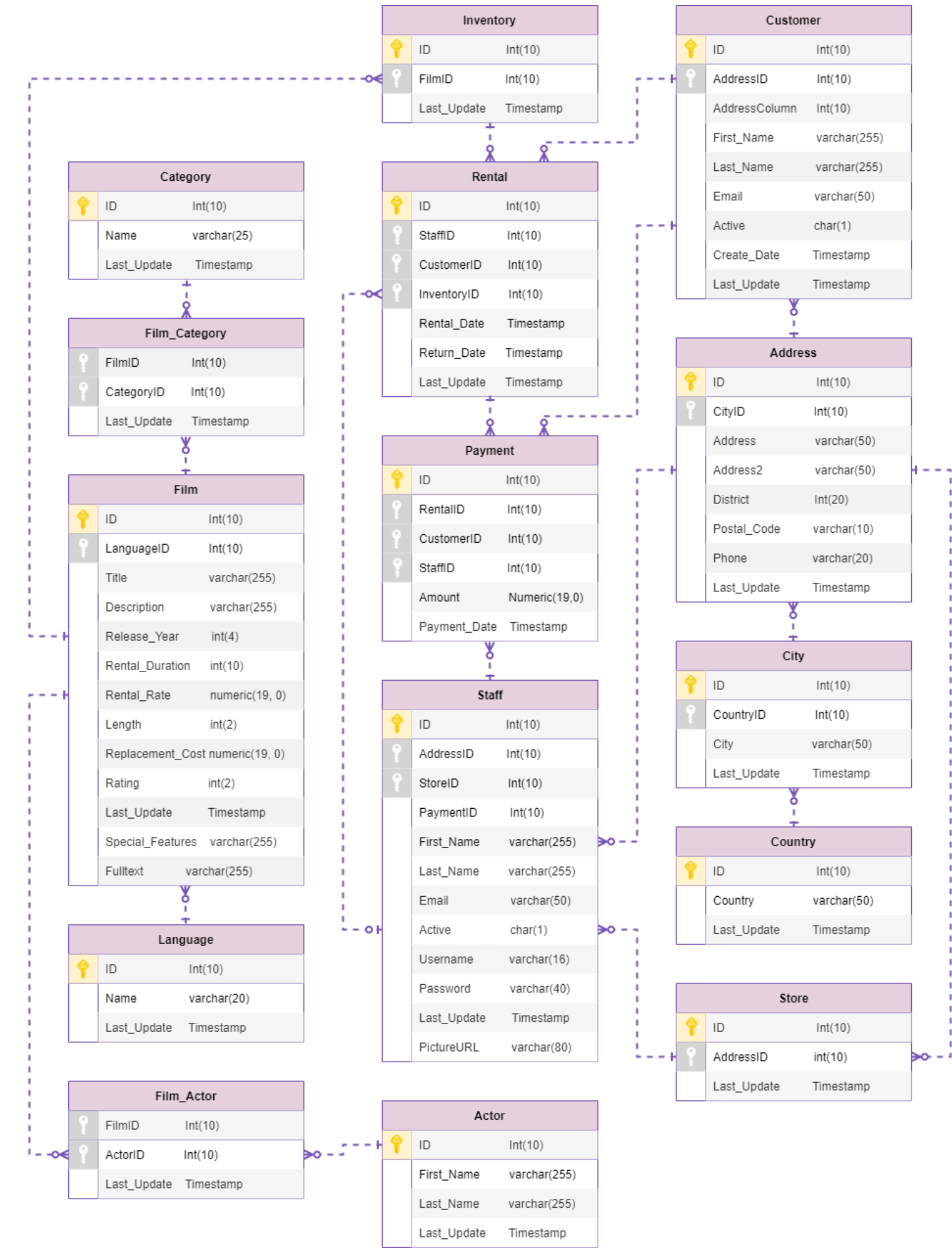
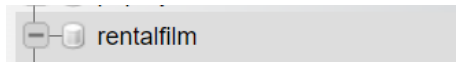


Membuat ERD



Membuat database



Membuat Tabel (non fk/relasi)

```
CREATE TABLE Category(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    Name varchar(25),
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```


```
CREATE TABLE film_category(
    FilmID int(10) NOT NULL,
    CategoryID int(10) NOT NULL,
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```


```
CREATE TABLE Film(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    LanguageID int(10) NOT NULL,
    Title varchar(255),
    Description varchar(255),
    Release_Year int(4),
    Rental_Duration int(10),
    Rental_Rate numeric(19,0),
    Length int(2),
    Replacement_Cost numeric(19,0),
    Rating int(10),
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    Special_Features varchar(255),
    Full_Text varchar(255)
);
```

```
CREATE TABLE Language(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    Name varchar(20),
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```


```
CREATE TABLE Actor(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    First_Name varchar(255),
    Last_Name varchar(255),
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```


```
CREATE TABLE Country(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    Country varchar(50),
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```


1	ID 	int(10)
2	Name	varchar(20)
3	Last_Update	timestamp

1	ID 	int(10)
2	Name	varchar(25)
3	Last_Update	timestamp

1	FilmID	int(10)
2	CategoryID	int(10)
3	Last_Update	timestamp

1	ID 	int(10)
2	LanguageID	int(10)
3	Title	varchar(255)
4	Description	varchar(255)
5	Release_Year	int(4)
6	Rental_Duration	int(10)
7	Rental_Rate	decimal(19,0)
8	Length	int(2)
9	Replacement_Cost	decimal(19,0)
10	Rating	int(10)
11	Last_Update	timestamp
12	Special_Features	varchar(255)
13	Full_Text	varchar(255)

1	ID 
2	First_Name
3	Last_Name
4	Last_Update

1	ID 
2	Country
3	Last_Update

Menambahkan FK+relasi pada tabel

```
ALTER TABLE film_category
  ADD FOREIGN KEY (FilmID) REFERENCES
  film(ID),
  ADD FOREIGN KEY (CategoryID) REFERENCES
  category(ID)
;
```

```
ALTER TABLE film
  ADD FOREIGN KEY (LanguageID) REFERENCES Language(ID)
;
```

Membuat Tabel (sekalius menambahkan fk+relasi)



```
CREATE TABLE Film_Actor(
  FilmID int(10) NOT NULL,
  FOREIGN KEY (FilmID) REFERENCES film(ID),
  ActorID int(10) NOT NULL,
  FOREIGN KEY (ActorID) REFERENCES actor(ID),
  Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

```
CREATE TABLE Inventory(
  ID int(10) NOT NULL,
  PRIMARY KEY (ID),
  FilmID int(10) NOT NULL,
  FOREIGN KEY (FilmID) REFERENCES film(ID),
  Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```



```
CREATE TABLE City(
  ID int(10) NOT NULL,
  PRIMARY KEY (ID),
  CountryID int(10),
  FOREIGN KEY (CountryID) REFERENCES country(ID),
  City varchar(50),
  Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```



```
CREATE TABLE Address(
  ID int(10) NOT NULL,
  PRIMARY KEY (ID),
  CityID int(10) NOT NULL,
  FOREIGN KEY (CityID) REFERENCES city(ID),
  Address varchar(50),
  Address2 varchar(50),
  District int(20),
  Postal_Code varchar(10),
  Phone varchar(20),
  Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```



```
CREATE TABLE Store(
  ID int(10) NOT NULL,
  PRIMARY KEY (ID),
  AddressID int(10) NOT NULL,
  FOREIGN KEY (AddressID) REFERENCES address(ID),
```



1	FilmID 
2	CategoryID 
3	Last_Update

Keyname	Type	Unique	Packed	Column
FilmID	BTREE	No	No	FilmID
CategoryID	BTREE	No	No	CategoryID



1	ID 
2	LanguageID 
3	Title

1	FilmID 
2	ActorID 
3	Last_Update

1	ID 
2	FilmID 
3	Last_Update

1	ID 
2	CountryID 
3	City
4	Last_Update

1	ID 
2	CityID 
3	Address
4	Address2
5	District
6	Postal_Code
7	Phone
8	Last_Update

1	ID 
2	AddressID 
3	Last_Update

```

Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

```

```

CREATE TABLE Customer(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    AddressID int(10) NOT NULL,
    FOREIGN KEY (AddressID) REFERENCES address(ID),
    AddressColumn int(10) NOT NULL,
    First_Name varchar(255),
    Last_Name varchar(255),
    Email varchar(50),
    Active char(1),
    Create_Date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

```

```

CREATE TABLE Staff(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    AddressID int(10) NOT NULL,
    FOREIGN KEY (AddressID) REFERENCES address(ID),
    StoreID int(10) NOT NULL,
    FOREIGN KEY (StoreID) REFERENCES store(ID),
    PaymentID int(10) NOT NULL,
    First_Name varchar(255),
    Last_Name varchar(255),
    Email varchar(50),
    Active char(1),
    Username varchar(16),
    Password varchar(40),
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    PictureURL varchar(80)
);

```

```

CREATE TABLE Rental(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    StaffID int(10) NOT NULL,
    FOREIGN KEY (StaffID) REFERENCES staff(ID),
    CustomerID int(10) NOT NULL,
    FOREIGN KEY (CustomerID) REFERENCES customer(ID),
    InventoryID int(10) NOT NULL,
    FOREIGN KEY (InventoryID) REFERENCES inventory(ID),
    Rental_Date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    Return_Date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    Last_Update TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);


```





```





CREATE TABLE Payment(
    ID int(10) NOT NULL,
    PRIMARY KEY (ID),
    RentalID int(10) NOT NULL,
    FOREIGN KEY (RentalID) REFERENCES rental(ID),
    CustomerID int(10) NOT NULL,
    FOREIGN KEY (CustomerID) REFERENCES customer(ID),
    StaffID int(10) NOT NULL,

```

1	ID 
2	CityID 
3	Address
4	Address2
5	District
6	Postal_Code
7	Phone
8	Last_Update

1	ID 
2	AddressID 
3	StoreID 
4	PaymentID
5	First_Name
6	Last_Name
7	Email
8	Active
9	Username
10	Password
11	Last_Update
12	PictureURL

1	ID 
2	StaffID 
3	CustomerID 
4	InventoryID 
5	Rental_Date
6	Return_Date
7	Last_Update

1	ID 
2	RentalID 
3	CustomerID 
4	StaffID 
5	Amount
6	Payment_Date

```
FOREIGN KEY (StaffID) REFERENCES staff(ID),
Amount numeric(19,0),
Payment_Date TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

Menghapus Atribut Tabel

ID 	
LanguageID 	
Title	
Description	
Release_Year	
Rental_Duration	ALTER TABLE film
Rental_Rate	DROP COLUMN `Full_Text`
Length	
Replacement_Cost	
Rating	
Last_Update	
Special_Features	

Mengubah Atribut Tabel

13	FullText	text	ALTER TABLE film
			CHANGE `FullText` `FullText` TEXT