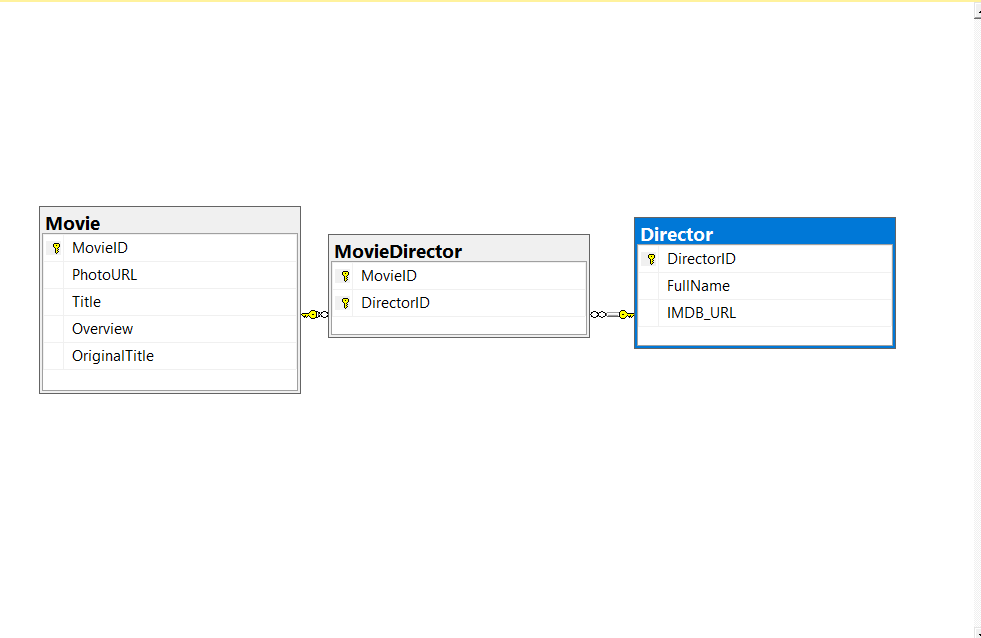
1. Database Schema



From this URL <https://api.themoviedb.org/3/discover/movie?api_key=bbb0e77b94b09193e6f32d5fac7a3b9c&region=GR&release_date.gte=2020-05-01&release_date.lte=2020-12-30&with_release_type=2|3>, I will retrieve the list of the movies that there are in greek theaters this period and I will use it in order to update Movie Table. I assumed that the relationship between movies and directors is many to many for that reason I used intermediate table MovieDirector.

CREATE DATABASE MovieData;

CREATE TABLE Movie(

MovieID INT IDENTITY NOT NULL,

Title VARCHAR(60) NOT NULL,

Overview VARCHAR(400) NOT NULL,

OriginalTitle VARCHAR(70) NOT NULL,

PRIMARY KEY (MovieID)

);

CREATE TABLE Director(

DirectorID INT IDENTITY NOT NULL,

FullName VARCHAR(100) NOT NULL,

IMDB\_URL VARCHAR(70) NOT NULL

PRIMARY KEY (DirectorID)

);

CREATE TABLE MovieDirector(

MovieID INT NOT NULL,

DirectorID INT NOT NULL,

CONSTRAINT PK\_MD PRIMARY KEY (MovieID, DirectorID),

CONSTRAINT FK\_MovieID FOREIGN KEY (MovieID) REFERENCES [dbo].[Movie]([MovieID]),

CONSTRAINT FK\_DirectorID FOREIGN KEY (DirectorID) REFERENCES [dbo].[Director]([DirectorID])

);

create database MovieData;

create table movie(

movie\_id int not null,

poster\_path varchar(100) null,

original\_title varchar(100) not null,

title varchar(100) not null,

overview varchar(500) null

primary key (movie\_id)

);

create table director(

director\_id int not null,

name varchar(100) not null,

imdb\_link varchar(100) not null

primary key (director\_id)

);

create table moviedirector(

movie\_id int not null,

director\_id int not null,

constraint PK\_MD primary key (movie\_id, director\_id),

constraint FK\_movie\_id foreign key (movie\_id) references [dbo].[movie]([movie\_id]),

constraint FK\_director\_id foreign key (director\_id) references [dbo].[director]([director\_id]));

declare @movie varchar(max)

select @movie =

BulkColumn

from openrowset(bulk'C:\Users\User\Documents\Sample JSON\movie.json', single\_blob) json

if (ISJSON(@movie)=1)

begin

print 'JSON file is valid';

insert into movie

select \*

from OPENJSON(@movie, '$.movie')

with(

movie\_id int '$.movie\_id',

poster\_path varchar(100) '$.poster\_path',

original\_title varchar(100) '$.original\_title',

title varchar(100) '$.title',

overview varchar(500) '$.overview'

)

end

else

begin

print 'JSON file is invalid'

end

declare @director varchar(max)

select @director =

BulkColumn

from openrowset(bulk'C:\Users\User\Documents\Sample JSON\director.json', single\_blob) json

if (ISJSON(@director)=1)

begin

print 'JSON file is valid';

insert into director

select \*

from OPENJSON(@director, '$.director')

with(

director\_id int '$.director\_id',

name varchar(100) '$.name',

imdb\_link varchar(100) '$.imdb\_link'

)

end

else

begin

print 'JSON file is invalid'

end

And finally matching movies with their directors in moviedirector table

insert into moviedirector(movie\_id, director\_id)

values(1,1),(1,2),(2,3),(3,4),(4,5),(5,6),(6,7),(7,8);

I created an ASP.NET Web Application(.NET Framework) Web Forms Database First project.

The database was connected with Asp.Net project implementing ADO.NET Entity Data Model

And then web forms in order to show data from database to the front.