Executive Summary Report

Introduction:

I was given the task of creating an ER diagram for the given data set. The data set and the instructions for the report were provided to me on canvas. As Draw.Io is an open-source tool, I utilized various materials from the internet to understand the process. I also utilized the material provided by the professor during the class.

During the assessment I was able to learn the relationship between various tables, identify attributes, Identify, and create Primary key and create ER diagram. To support my claim, I have added the screen shots of various outputs generated.

Practice assignment Question:

You must have at least four (4) tables and clearly documented primary keys and secondary keys. All table relationships should be appropriately documented as well. Finally, pay attention to table and attribute naming conventions. Review the rubric to understand the grading criteria.

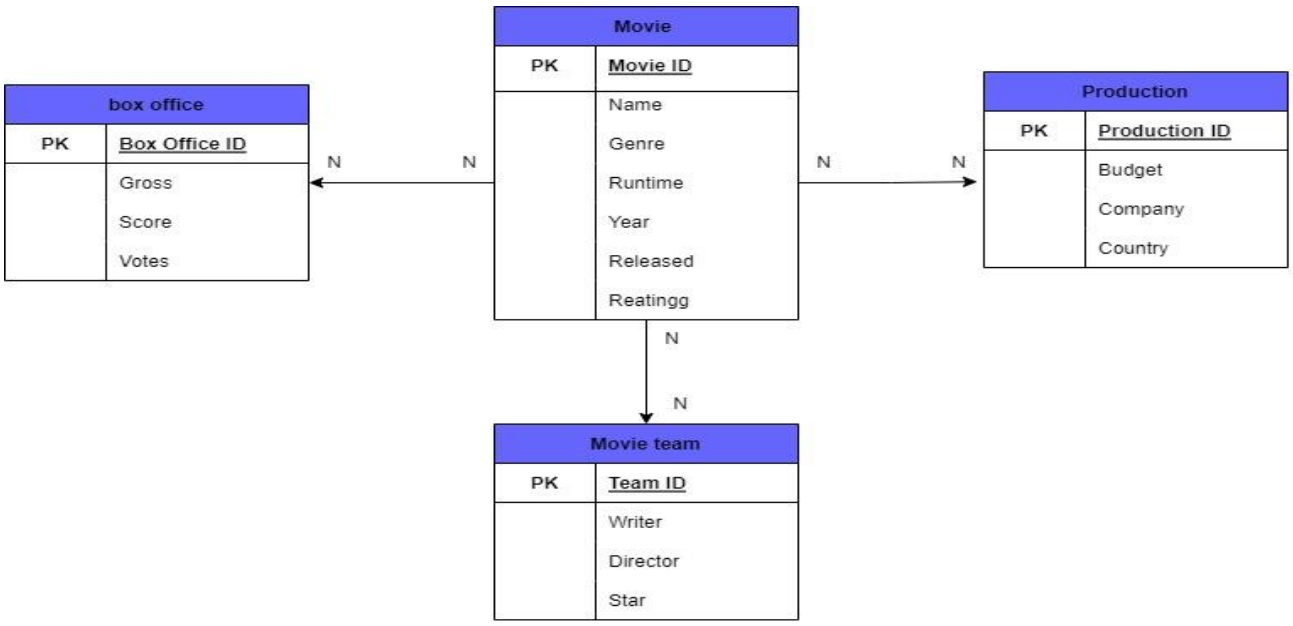

Fig1 : ER Diagram with no action

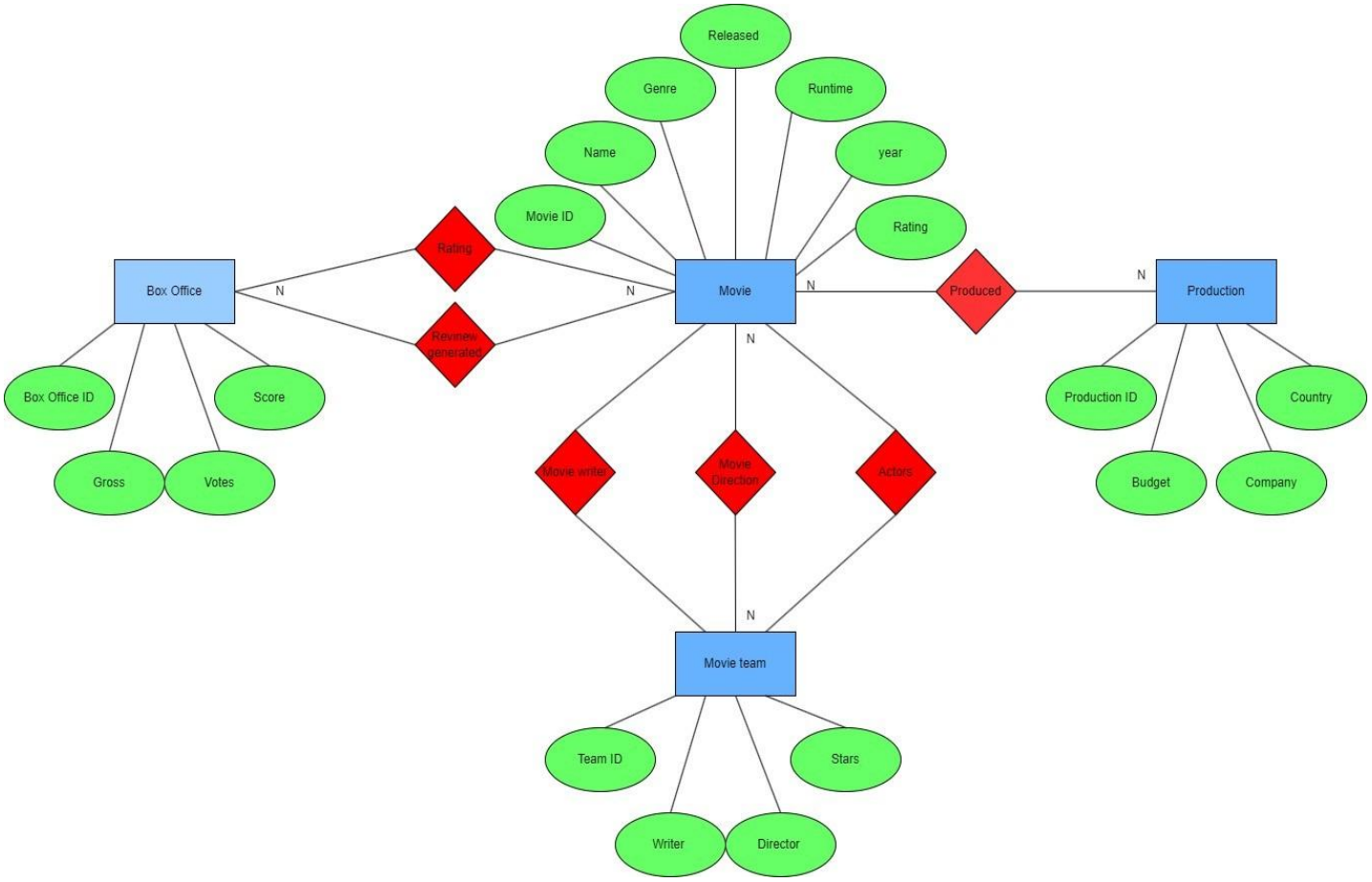

Fig 2: ER Diagram with Action box

Based on the data set provided, four distinct tables were identified: Movies, Production, Movies Team, and Box Office. In the process of identifying attributes related to each table, it became apparent that a primary key was needed for each table, which could be achieved by creating a new column called "ID". Additionally, relationships between each table were established, with Movies having a one-to-one relationship with Production, Movies Team, and Box Office.

Furthermore, attributes were appropriately categorized into their respective tables, and actions/relationships were defined for each table, as illustrated in Figure 2.

The Primary key are as follows :

S.NO	Primary key Attributes
1.	Movie ID
2.	Production ID
3.	Team ID
4.	Box Office ID

Table 1: Key Type

From the above table we can notice the attributes that are used as keys. It is noteworthy that the Movie ID is linked with all other key attributes of tables, as indicated in both Figure 1 and Figure 2.

Furthermore, when considering the Movie table, the Movie ID becomes the primary key, and all other key attributes become foreign keys for other tables. However, every key attribute remains the primary key for its individual table.

Summary:

I have been practicing ER diagrams and Flowcharts using Draw.Io. This assignment has helped me assess my fundamental knowledge of this subject. Initially, I encountered difficulties in creating attributes. However, I was able to identify correlations between attributes and discern four distinct tables with primary keys.

Syntax:

```
SELECT * FROM itc6000.movies;
create table movie as
        select genre, name, rating, released, runtime, year
   FROM itc6000.`movies`;

create table movie_team as
        select writer, director,star
        FROM itc6000.`movies`;

create table production as
        select budget, company, country
        FROM itc6000.`movies`;
```

```
create table box_office as
        select gross, score, votes
        FROM itc6000.`movies`;

alter table movie
ADD movie_id int;

ALTER TABLE movie
ADD PRIMARY KEY (movie_id);

alter table movie_team
add movie_team_ID int;

ALTER TABLE movie_team
ADD PRIMARY KEY (movie_team_ID);

alter table production
add production_ID int;

ALTER TABLE production
ADD PRIMARY KEY (production_ID);

alter table box_office
add box_office_ID int;

ALTER TABLE box_office
ADD PRIMARY KEY (box_office_ID);
```

Syntax 2:

```
SELECT * FROM itc6000.movies;

CREATE TABLE Movie (
  movie_id INT NOT NULL AUTO_INCREMENT,
  name VARCHAR(250) ,
  genre VARCHAR(250) ,
  year int,
  released INT ,
  runtime INT ,
  rateing INT ,
  PRIMARY KEY (movie_id)
);
CREATE TABLE box_office (
```

```
  box_office_ID INT NOT NULL AUTO_INCREMENT,
   gross int,
  released INT ,
  score float ,
  votes INT,
  PRIMARY KEY (box_office_ID)
);

CREATE TABLE team_members (
  team_id INT NOT NULL AUTO_INCREMENT,
            writer VARCHAR(250),
  director VARCHAR(250) ,
  star VARCHAR(250)  ,
  PRIMARY KEY (team_id)
);

CREATE TABLE Production (
  Production_id INT NOT NULL AUTO_INCREMENT,
            budget VARCHAR(250),
  company VARCHAR(250) ,
  country VARCHAR(250)  ,
  PRIMARY KEY (Production_id)
);
```