**Assignment 6**

Based on the readings, lecture slides, and materials in the Module 5, answer the below questions and submit via blackboard in a .docx or .pdf format.

To perform this assignment, you will need to use the Valentina Studio that we have been using this semester to build a table that will add to our Sakila database. This will give students exposure and hands on experience with applying constraints and key relationships.

Within this database, you will be creating a new table called Director in Guided Table Build, and inserting the records supplied here to evaluate what happens.

**Guided Table Build: We will be Creating a Table called Director For the 6 following questions, your submission will be the query that shows you’ve created the table conforming to the requirements.**

1. Create a Table Named Director.
2. The first column should be named Director\_ID, have a data type of Integer, and be the Primary Key.
3. The second column should be named First\_Name, and have a data type of varchar(255).
4. The third column should be named Last\_Name, and have a data type of varchar(255)
5. The fourth column should be named Film\_ID, be a data type of Long, and be a foreign key that references the table Film and the column Film\_ID.

Query –

**CREATE TABLE Director (**

**Director\_ID INT PRIMARY Key Not NULL,**

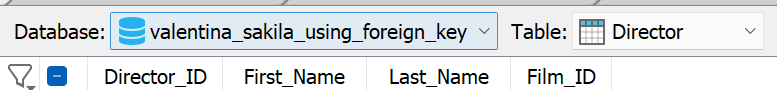
**First\_Name VARCHAR (255),**

**Last\_Name VARCHAR (255),**

**Film\_ID BIGINT,**

**FOREIGN KEY(film\_id) REFERENCES film(film\_id)**

**);**



**Inserted Record Results: For the 5 following questions, state whether or not the query executed and why or why not.**

**The final table for all 5 queries -**

**Table

Description automatically generated**

1. Insert Into Director

Values(1,'Josh','Klemm',1)

Query Executed (Above table)

1. Insert Into Director

Values(2,'Jeff','Bezos',10)

Query Executed (Above table)

1. Insert Into Director

Values(1,'Elon','Musk',50)

The Director\_ID was duplicated as 1 in multiple columns, Therefore Director \_ID uniqueness was lost.

But it could be changed by altering the table column by dropping a unique constraint.(as in below screenshots)

Later below query was added

**ALTER TABLE Director**

**DROP CONSTRAINT PK\_Director\_Director\_ID;**

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application, table

Description automatically generated

1. Insert Into Director

Values(3,'Elon','Musk',500000)

Query did not execute first as there are only 1000 Film\_IDs in the film table. Therefore it won’t exceed more than that as Director table.Film\_ID is connected with Film.Film\_ID with a Foreign key. Any value equal or less than 1000 will be accepted for this column.

Graphical user interface

Description automatically generated

1. Insert Into Director

Values(3,'Elon','Musk',5)

Query Executed (Above table)

**Extra Credit- 2 points on Final Grade:** Write a query that returns only the title of the film that each director has directed.

SELECT Director.Film\_ID, Director.First\_Name, Director.Last\_Name, film.title

FROM Director

Join film

On film.film\_id = Director.Film\_ID;

Table

Description automatically generated