Name: _____

Student #: _____

30

Assignment #2 – Entity-Relationship Diagrams

Case Study

You have been contracted to develop the website for **Webflicks**, a startup video streaming service. Customers must register with the website with their username and password. Once registered, the website will allow customers to view information about available videos, place videos on a personal playlist and, of course, watch a desired video. However, before you can begin on the website you must design the database that will be the basis of the system.

The system needs to maintain information about the customers, including their username (which is their email), password (a 64-byte hash), first/last name, full address, phone number, status of their account (OK, Payment Overdue, Suspended, Closed, etc.), what videos they have previously watched and what videos are on their playlist. The system also needs to contain information about the videos, including the title, description, genre (horror, sci-fi, etc.), rating (G, PG-13, R, etc.) movie length, year of release, a list of customers who have seen the video and when they viewed it.

Using the information given, create a complete ERD using Visual Paradigm. Include all entities, relationships (in crow's feet notation), fields, primary/foreign keys and reasonable data types for a SQLite database.

Submission

To submit the assignment, print out the ERD, with the data types visible, and attach it to this document. You will also submit an electronic copy of the assignment to the appropriate Brightspace assignment dropbox before the deadline.

Name: _____

Student #: _____

Data Fundamentals (DBAS1007)

Marking Rubric

Criteria	Unsatisfactory	Acceptable	Good	Exceptional	Marks
	0	3	4	5	
Entities	- no valid entities were shown	- some of the entities were valid	- most of the entities were valid	- all the entities were chosen well and given appropriate names	_____
Relationships	- crow's foot relationships do not exist	- some of the crow's foot relationships are valid	- most of the relationships are correct - only a few mistakes exist	- all relationships are correct and in crow's foot notation	_____
Fields	- no fields exist in the entities	- some fields exist, but many are missing, misnamed or incorrect for the entity	- only a few fields are missing, misnamed or are incorrect for the entity	- all fields are present and are correctly placed in their corresponding entity	_____
Primary Keys	- no primary keys exist	- primary keys exist, but most are incorrectly defined	- most primary keys are correctly defined for the entity	- all entities have primary keys and surrogate keys/ composite keys are correctly used	_____
Foreign Keys	- no foreign keys exist	- foreign keys exist, but most are incorrectly defined	- most foreign keys are correctly defined for the entity	- all foreign keys are correctly defined for the required relationships and given appropriate names	_____
Data Types	- no data types are defined - the same data type was used for all fields	- some data types are correct for the fields, but many are incorrectly sized or using the wrong type	- most fields are using the correct types and sized appropriately - some required fields are mistakenly nullable	- all fields have well chosen data types and are correctly sized - all required fields are set to not null	_____
				Total	_____ **30**