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8/22/2020

VIDEO STREAMING DBMS

Submitted By

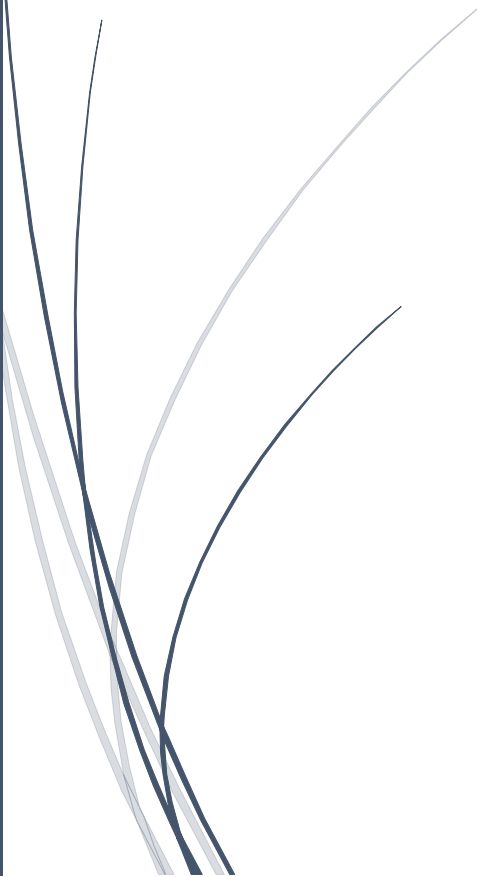
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Several thin, curved lines in shades of blue and grey sweep upwards from the bottom left corner.

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1. Define problem and constraints

Problem

VSDB will be used to develop a web-based application for movies that stores information regarding movies and shows for the clients. Since storage of information is very essential. There is need for a new database to be developed that will capture whole process of information flow regarding VSDB Objectives.

Constraint

The database developed might not be secured since technologies changes every second hence security penetration tactics may vary from time of development to time of deployment

Objectives

- I. To develop a database that satisfies rules of normalization. i.e. 1NF, 2NF, 3NF
- II. To develop a database that captures everything for video streaming website

Scope and boundaries

Scope: The database will capture information related to the clients, admin of the system, managers and the details related to the shows and film.

Boundary: The database will only cover the information related movies, shows and users of these features. The details outside this feature will not be captured by the database for example the issues related to web development of the website, they will not be implemented

2. Database design

Semantic database model:

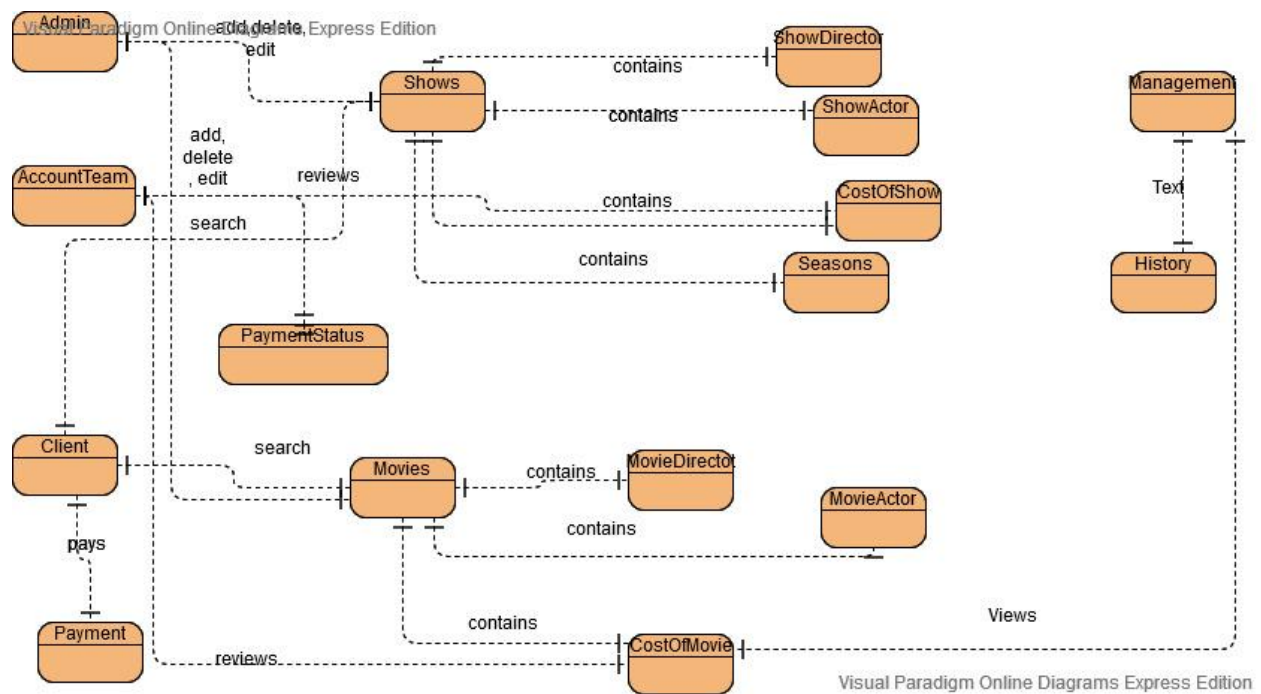


Fig: Showing the semantic database design

Conceptual design:

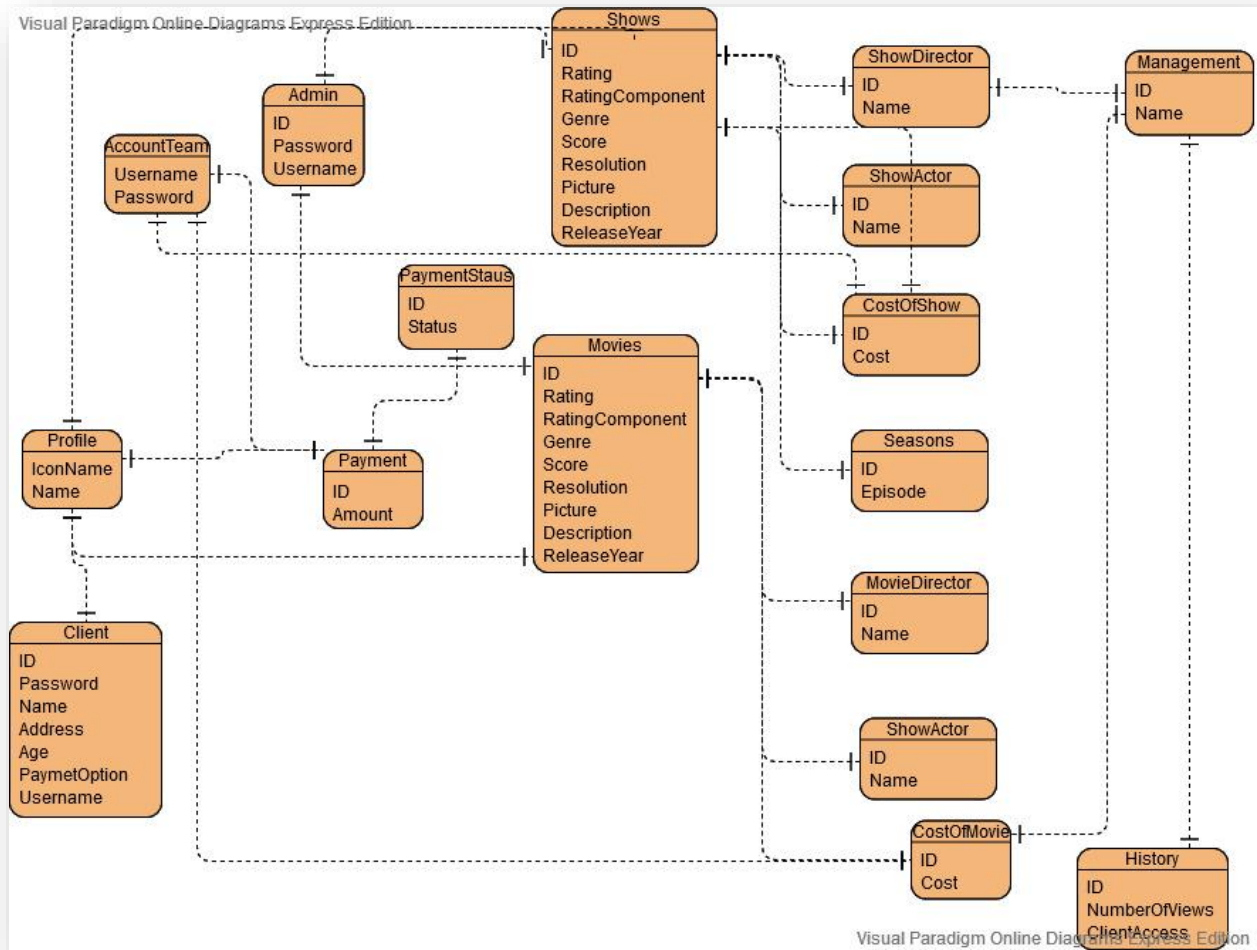


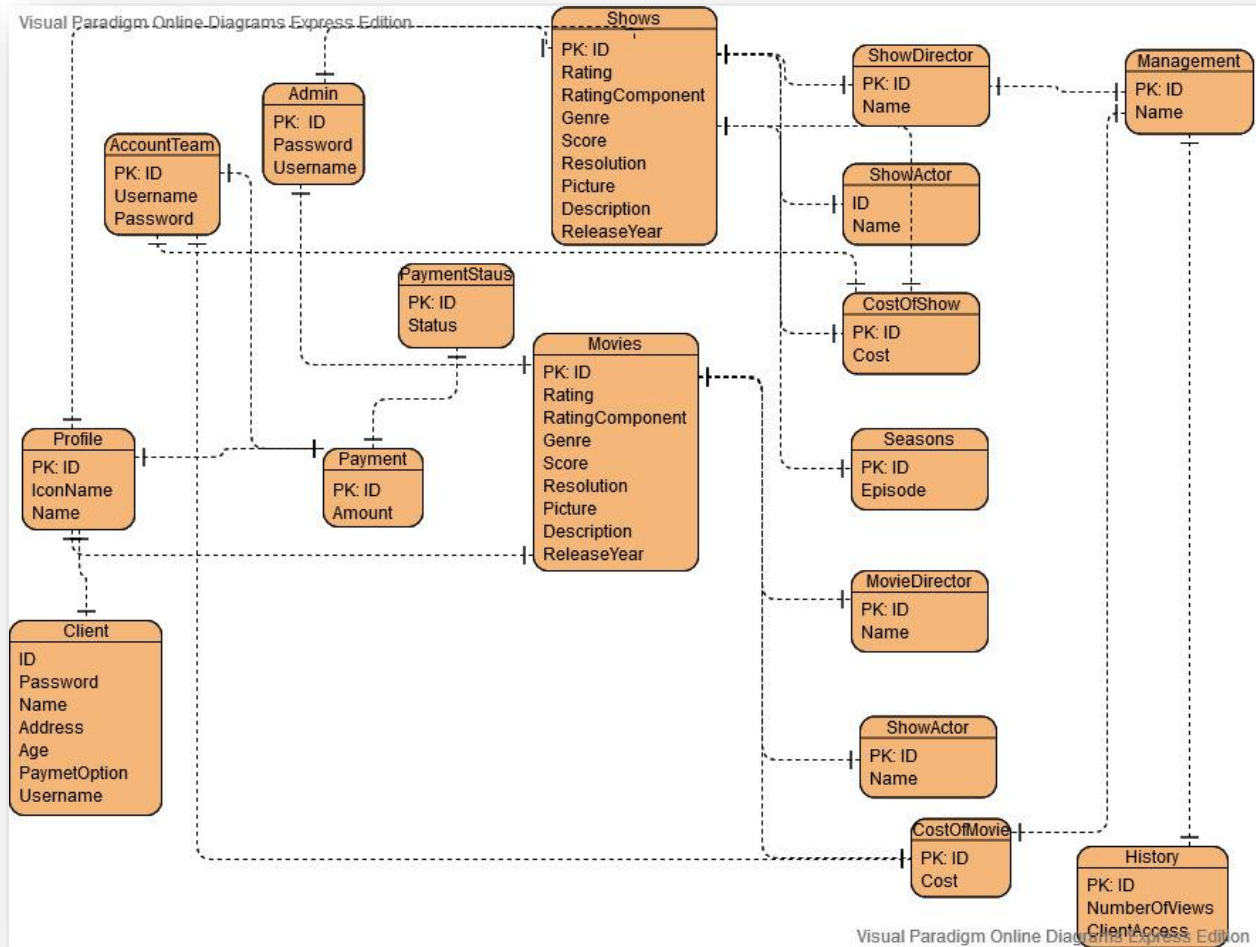
Fig: Showing conceptual database design

DBMS selection

MYSQLI

Physical design:

Fig: Showing physical database design



Create external Schema interface

It refers to how each individual view specific contents on the database

(i) Admin view

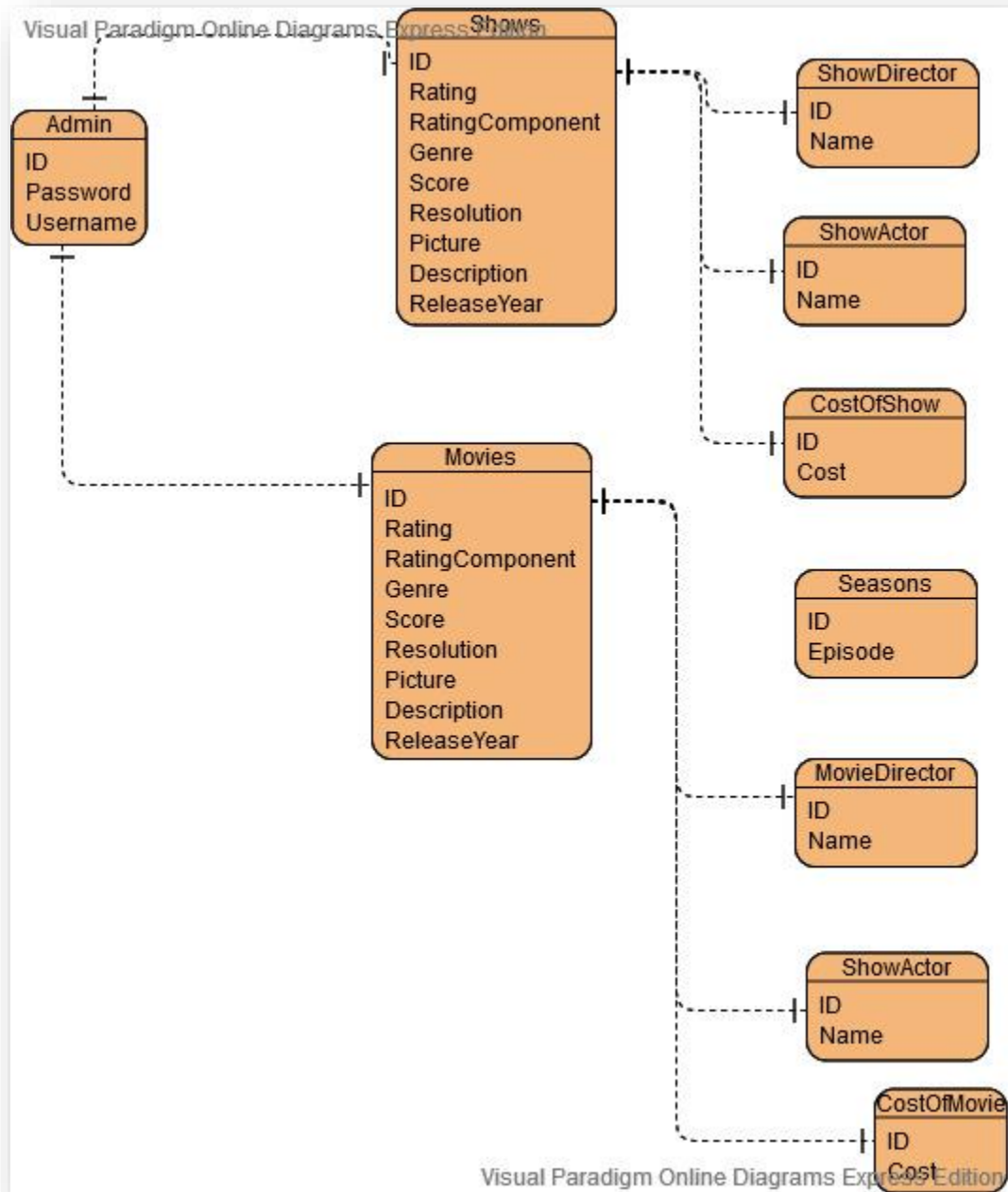


Fig: Showing admin interface tables

(ii)Client view

Client interface:

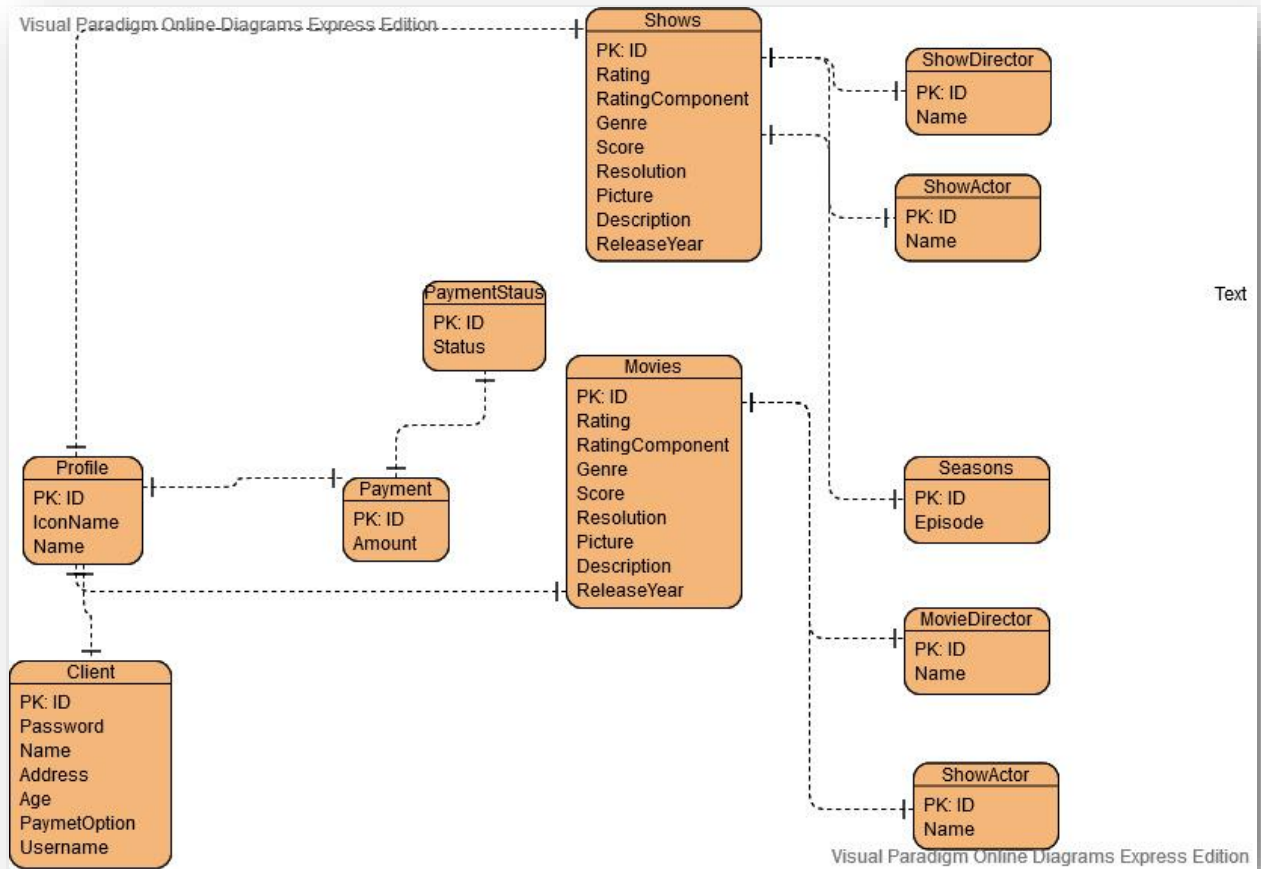


Fig: Showing client interface tables

Management view:

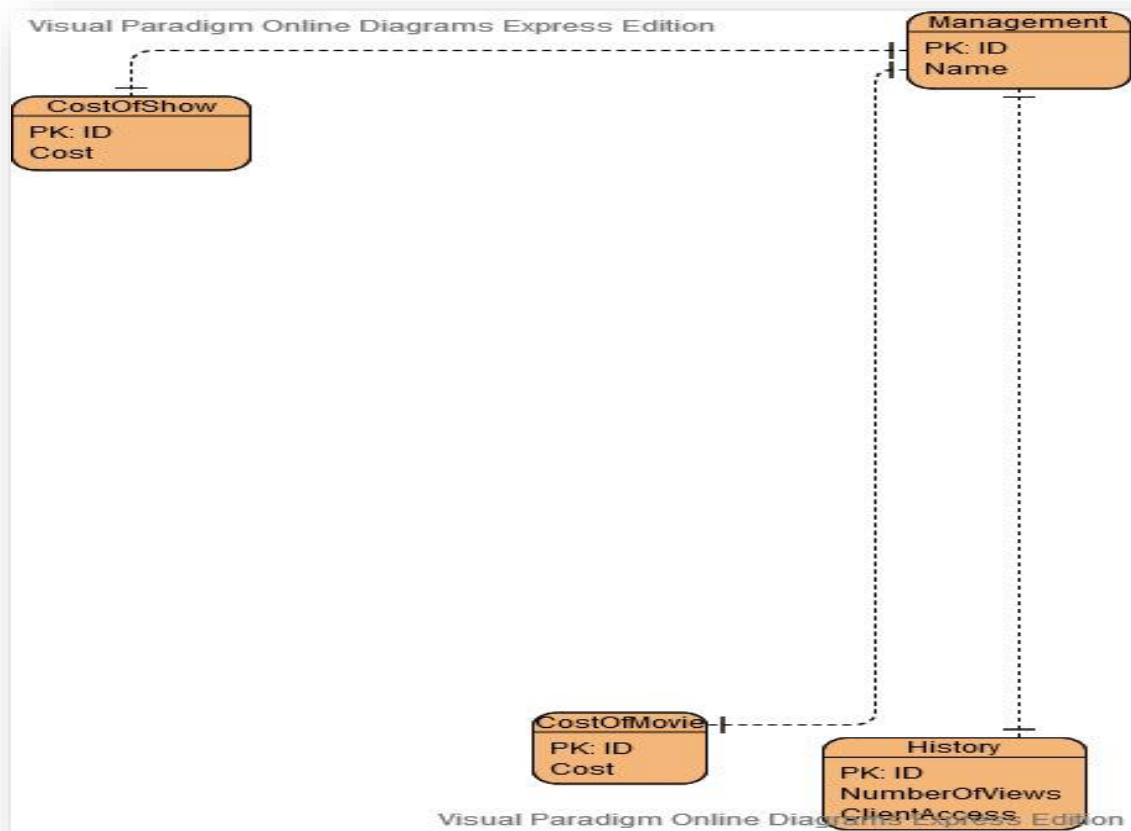


Fig: Showing the management interface

(iv) Account team view

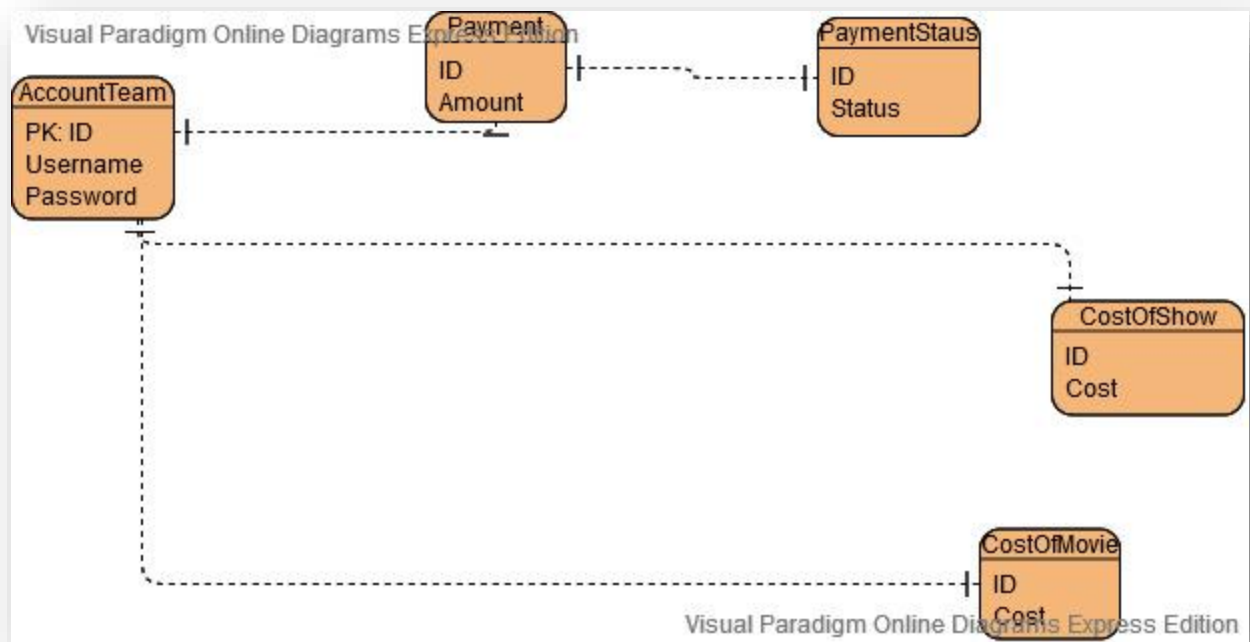


Fig: Showing the account team view of the system

3. Implementation and loading: DBMS configuration parameters

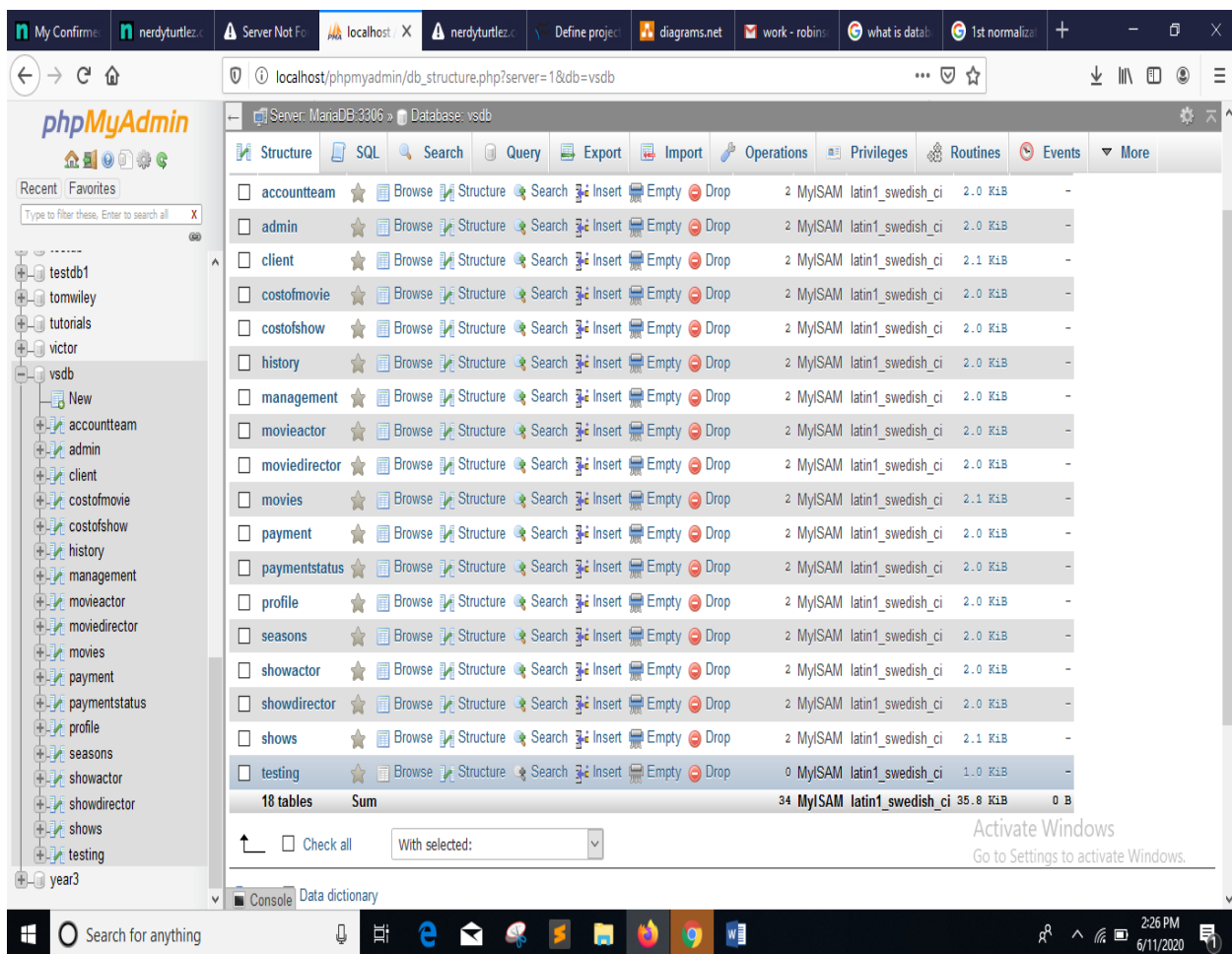
The database host will be the: Localhost

Username will be: root:

Password: will be blank

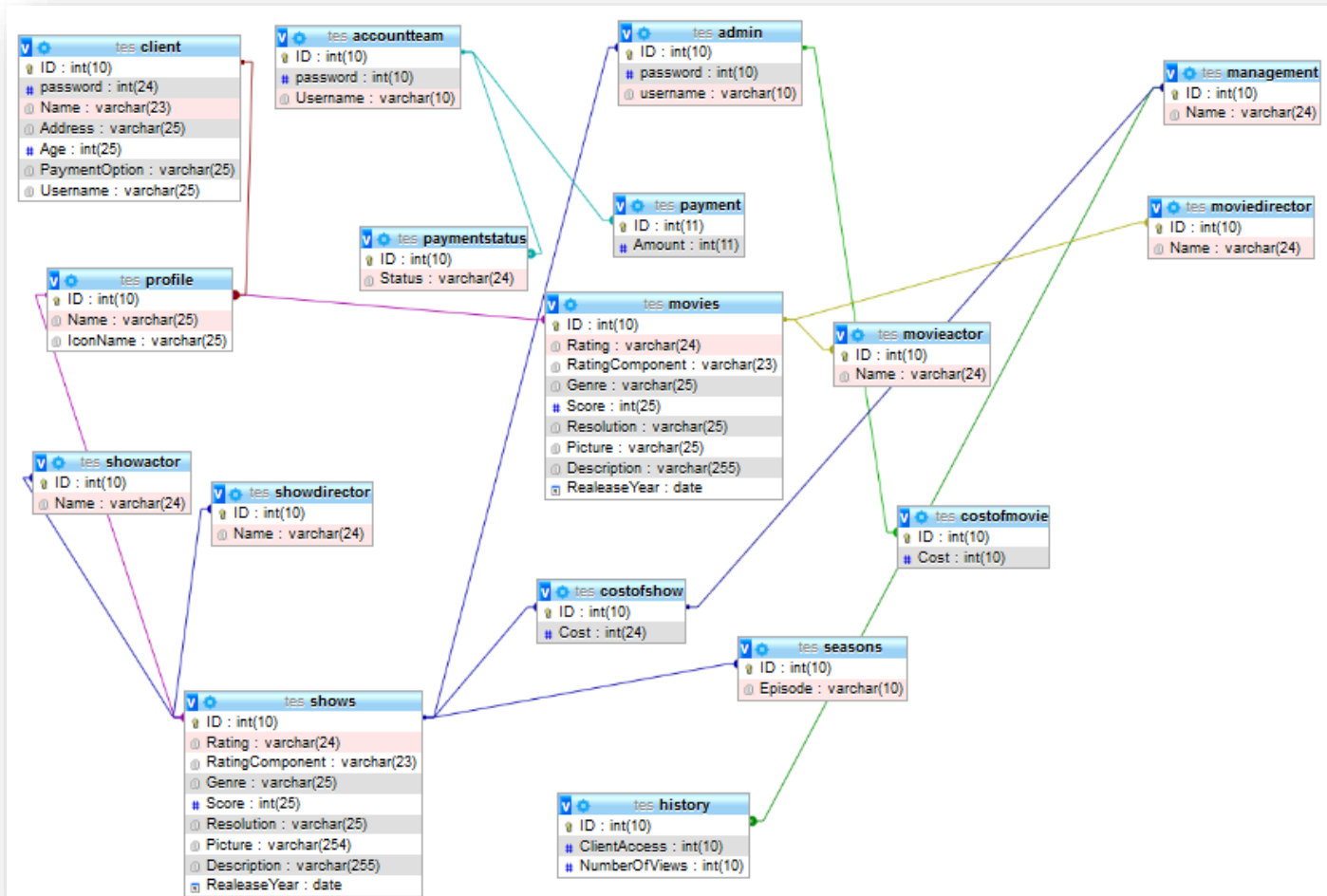
Create database:

The database given has implemented everything



Data loading....

Implement external schema:



Loading data

The text file attached shows data stored on the database called "data.txt".

4. Test and evaluation

The database schema has been tested and appears to be correct on the interface

Admin and client detail testing to check data:

□ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code]

□ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	ID	Rating	RatingComponent	Genre	Score	Resolution	Picture	Description	ReleaseYear
□ Edit Copy Delete	1	Restricted	Language	music	5	1200	IMG_20191220_134820.jpg	good	2020-06-15
□ Edit Copy Delete	2	R	Language	arts	5	1200	IMG_20191106_140450	good	2020-06-16

↑ □ Check all | With selected: Edit Copy Delete Export

Admin update of data:

+ Options

	ID	Rating	RatingComponent	Genre	Score	Resolution	Picture	Description	ReleaseYear
□ Edit Copy Delete	1	NC	Violence	music	5	1200	IMG_20191220_134820.jpg	good	2020-06-15
□ Edit Copy Delete	2	PG	Language	arts	5	1200	IMG_20191106_140450	good	2020-06-08

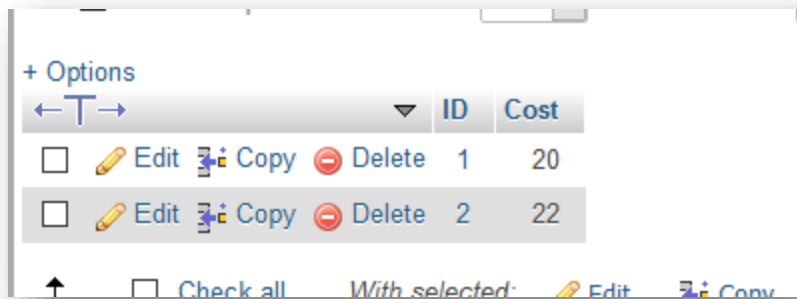
↑ □ Check all | With selected: Edit Copy Delete Export

□ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Drag to reorder.
Click to mark/unmark.
Double-click to copy column name.

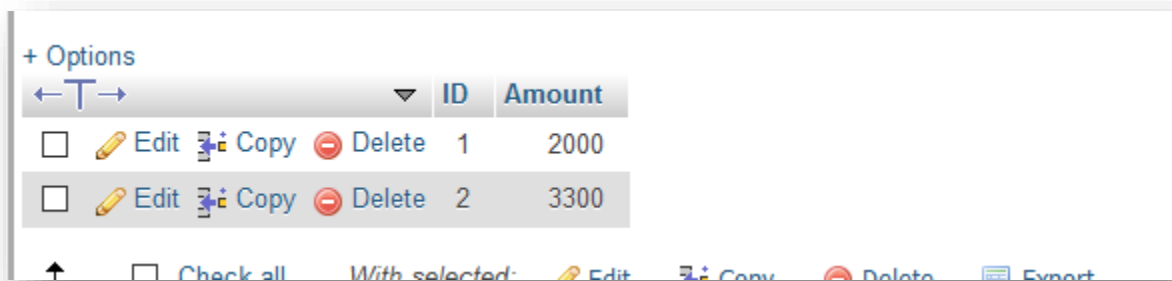
Account team testing:

The figure below shows table of cost, deposits and account status



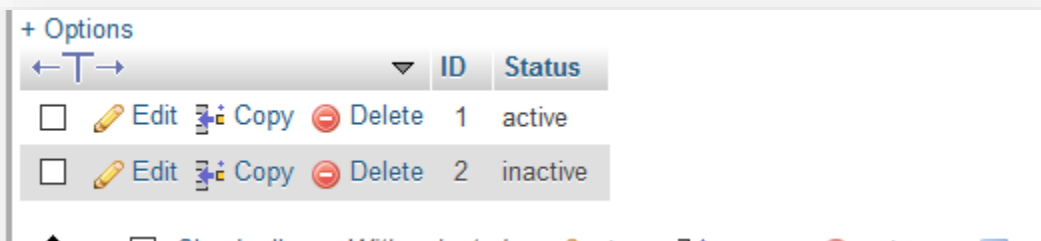
+ Options				ID	Cost
<input type="checkbox"/>				1	20
<input type="checkbox"/>				2	22

Fig: Showing cost table



+ Options				ID	Amount
<input type="checkbox"/>				1	2000
<input type="checkbox"/>				2	3300

Fig: Showing payment table



+ Options				ID	Status
<input type="checkbox"/>				1	active
<input type="checkbox"/>				2	inactive

Fig: Showing payment status

Managers testing:

History table testing



+ Options				ID	ClientAccess	NumberOfViews
<input type="checkbox"/>	Edit	Copy	Delete	1	2	2
<input type="checkbox"/>	Edit	Copy	Delete	2	4	4

Fine tune

The necessary adjustments have been added on the database

Evaluate the database:

The Database obeyed the rules or normalization hence this led to avoidance of errors in developing the database like data redundancy

5. Produce the required information

The information flow on the system is dependent on several user of the system like clients, admin, managers and account team.

The system admins enter the movies and the other details related to the movie onto the table of movie/shows, then the admin add the necessary cost to movies/ show by creating other tables.

The client's first registers and starts viewing the movie/show details on the database as he deposits amount on the payment database.

The manager, on other hand views the reports related to viewing history and cost of the movie

6. Maintenance and evaluation

Proposed changes

- I.The database should be able to give discounts for most frequent customers
- II.The database should other entertainment mediums and sports
- III.The database should allow rollbacks on the database