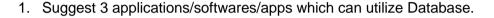


Lab Assignment 1 - Introduction to Databases

Instructions

- 1. Answer the below question in the boxes.
- 2. Please submit the assignment through TalentLabs Learning System.

Database 101



- 1. Facebook
- 2. Twitter
- 3. Youtube
- 2. Consider a payment application (Like Paypal or a banking app). How would a database play a role in the payment system? Can you mention 2 user operations that rely on the database of a payment application?

The database stores sensitive user information, such as account details, transaction history, and payment methods.

- 1. Making a payment
- 2. Viewing Transaction History
- 3. Viewing account balance



Database Concept

Consider a movie rating website. The website is able to display movie details e.g. movie name, directors, actors etc. Also, users can rank and review the movies.

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- 1. Users Table Table that stores information on users e.g. user ID, username, email address
- 2. Movies Table Table that stores information on movies e.g. movie title, directors, actors, release date
- 3. Ratings Table Table that stores information on rating of movies by user

	2.	Suggest 5	data	fields	that	should	be	available	on the	database
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	Movie Title
2.	User ID
3.	Rating
4.	Date/Time
5.	Review

Types of Databases

1. Name 2 Relational Database Software.

 Oracle MySQL 			



Roles of Database in Detail

Consider a user registering an account on a social media website (e.g. Twitter). Describe the role of the below elements when the user pressed the "Register" button.

- 1. App / Website
- 1. Collect user information
- 2. Validate user information
- 3. Create user account
- 4. Setting up user profile
- 5. Send confirmation/verification email on registration
- 2. Database
- 1. Store user information
- 2. Verifying user information
- 3. Authentication of user credentials when user tries to register

- End of Assignment -