

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. Suggest 3 applications/softwares/apps which can utilize Database.

1. Microsoft access
2. mySQL
3. SQLite

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?

In payment application, the application will retrieve the database about user data to collect the information of the sender e.g. (sender's name, account number and balanced). If the amount of balanced in sender's database was enough to make a transition, the application will retrieve receiver's database to access the receivers account number. The money will be store to receiver's database with sender's name, account number and amount of transition. The Transition also be store to both user's and receiver's payment history. The user operations that rely on the database of a payment application are user data and user history.

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.

1. Suggest 3 data tables for the website.

1. Movie
2. Rating
3. Review

2. Suggest 5 data fields that should be available on the database.

1. movie title
2. people id
3. people rating
4. people review
5. movie id

Types of Databases

1. Name 2 Relational Database Software.

1. SQLite
2. 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

The apps or website will collect the information of user such as username, password, email address and other personal detail and store it to database. The website or application also will replace the data in the database if there is any update apply in it. The website also retrieves the data from database to be displayed.

2. Database

The database will store all the information of the user in database software so that the website or application can apply store, delete or update the information.

- End of Assignment -