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.

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| 1. Slack  2. Gmail  3. Grab |

1. 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?

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| -Database stores user’s bank account and credit card information  -Database stores user’s transaction histories |

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## 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.

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| 1. User Score  2. Movie information  3. User profile |

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

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| 1. id  2. user\_id  3. user\_score  4. movie\_title  5. movie\_id |

## Types of Databases

1. Name 2 Relational Database Software.

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| 1. MySQL  2. SQLite |

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## 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

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| Application/Website send instructions to database to store user input data |

1. Database

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| The database stores user details like username, email address, date of birth, passwords that were entered by user on application/website |

**- End of Assignment -**