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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| Payment application (PayPal)  Social application (Twitter, Facebook)  Accounting applications (SAP) |

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 in the payment system can contain information or data about the transaction we made and can retrieve that transaction history more organized. We can check who the sender is, when and where the transaction occurs etc.  User history – historical transactions about the payment made with other users such as sender name, time of transaction etc.  User data – personal info of users such as name, age, and account number. |

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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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| Box Office  Top rated  Popularity |

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

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| Movie name  Directors  Actors  Vote average  Year release |

## Types of Databases

1. Name 2 Relational Database Software.

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| MySQL, PostgreSQL |

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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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| When a user registers an account, Twitter or other social media websites will create all the information given such as name, email address, and age in the database. Then, once registered, Twitter will send instructions to the database to store the information. |

1. Database

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| The database then saves/retrieves the information given by the user once the “Register” button is clicked. Once the data is saved, the data is then displayed in the user interfaces saying it has completed registration. |

**- End of Assignment -**