PMSCS Program, CSE, JU   Monday, January 31, 2022

Online Class Assignment – III   **PMSCS 612:** *Database Systems* (Fall 2021 Semester)

N.B.: *Write down the answers with pen and paper (handwritten), scan the writing (PDF), and submit in this online classroom by* <u>*February 02, 2022*</u>.

1. Explain the following with examples and/or figures:
   i.   Third Normal Form (3NF)
   ii.   Relational Algebra Operators/Operations
2. Write short notes on:
   i.   Big data.
   ii.   Cloud computing.
3. Compare among Data Warehouse, Data Mart, and Data Lake.
4. Compare between ACID and BASE properties.
5. Write a PHP script to extract data from a table of a database and show them in a webpage. (Explain the PHP script line-by-line.)

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