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	Assignment No. 1 Semester Spring 2022 Data Warehousing– CS614	Total Marks: 20 Due Date: 09-06-2022
<u>Student Id</u> <u>Student name</u> <u>Objective:</u> This assignment has been designed to develop your ability to apply De-Normalization Techniques and principles to De-Normalize data/tables. <u>Instructions:</u> Please read the following instructions carefully before solving & submitting the assignment: 1. The assignment will not be accepted after due date. 2. Zero marks will be awarded to the assignment that does not open or the file is corrupt. 3. The assignment file must be an MS Word (.doc) file format; Assignment will not be accepted in any other format. 4. Zero marks will be awarded to the assignment if copied (from other students, internet or any source).		

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5. Zero marks will be awarded to the assignment if the Student ID is not mentioned in the assignment file.

For any query about the assignment, contact only at [vu copier](#)

Please do not post queries related to assignment on MDB.

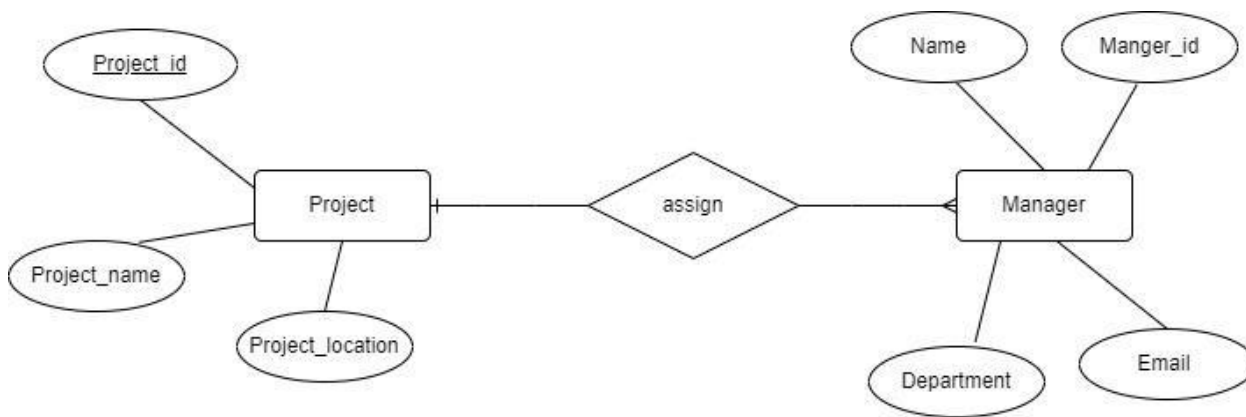
Note: The assignment covers lectures 1-9.

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Question 1 (Marks 10)

Below Entity Relationship Diagram (ERD) is an illustration of some specific scenario related with construction project.



For the given ERD which de-normalization technique will be used? You are required to mention the name of the technique, apply this technique on the given ERD and provide the resultant de-normalized table.

Note: You have a clear understanding of ERD and Normalization concepts. So, you can do normalization by your own. Use these concepts to answer the first question.

Solution

Pre Joining de Normalization technique is used will be used.

Because this technique is generally used when there is one to many relationship between two or more tables such as ,the master details case when there ae header and details tables in logical data model.

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Project location	Email	name	Project Name	Department	Project id	Manager id		

Question 2 (Marks 10)

Solution

The header of resultant De normalized table = $30+50-8$
=72 bytes

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Number of records stored in course table:	= 3000000
Size of de normalized table	=72*3000000
	=72*3000000
	=216,000,000 bytes
	=216 MB
	=0.216 Gb
	=0.000216 TB

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