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Probability & Statistics

Database Systems & SQL

Assignment 1

A table with text and numbers

AI-generated content may be incorrect.

1. Partial dependencies, Transitive dependencies
2. 2NF
   1. 2NF: partial dependencies for CustomerName and CustomerPhone depend on OrderID
3. Redesign:
   1. A close-up of a graph paper

      AI-generated content may be incorrect.

A close-up of a table

AI-generated content may be incorrect.

1. Because in the 1NF there must not be any multivalued attributes (atomic)
2. A close-up of a graph paper

   AI-generated content may be incorrect.

A close-up of a table

AI-generated content may be incorrect.

1. Partial dependencies
   1. StudentName depends only on StudentID.
   2. CourseName and Instructor depend only on CourseID.
2. A close-up of a graph paper

   AI-generated content may be incorrect.

A close-up of a document

AI-generated content may be incorrect.

1. Transitive dependencies
   1. DepartmentName & Manager depend on DepartmentID only
2. A graph paper with writing on it

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A close-up of a table

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1. SupervisorID is not a candidate key and
2. A graph paper with writing on it

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3. remove multi-valued dependencies by creating a separate Student Supervisor table.

A close up of a text

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* because as you reach higher levels of normalizations, it consumes a lot of time and slows down programs’ performance. It will also be hard to be maintained.