

Assignment Project Exam Help

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IT Projects¹

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¹CHAOS report by Standish Group, 2015



IT Projects¹

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• There can be many reasons, including:

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- Requirements were not properly documented,
- Improper development methodology was used,
- Resources were not sufficient,
- There were communication issues,
- ...

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Database Design – Four Phases

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The database design process has four phases:

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Conceptual Design

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Physical Design



Phase 1: Requirements Collection and Analysis

Assignment Project Exam Help Requirements collection and analysis is the process of collecting and

analyzing data requirements of the organization so as to provide database solutions that fulfill business needs of the organization.

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a description of data used or generated;

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- any additional requirements for new database system;
- ...



Phase 2: Conceptual Design

Assignment Project Exam Help that is

https://tutorcs.com sufficiently simple and often graphical,

- used to communicate the requirements of a database with __nontechnical users.
- A conceptual data model is built using the information in users' requirements specification.

Note: The conceptual design is based on **the entity-relationship model** in this course.



Phase 3: Logical Design

Assignment Project Exam Help relational or object-oriented).

• A conceptual data model is translated onto a logical data model, which can be urther period (e.g. rolnialisation) is meet the fatta requirements. For example,

From: An ER model

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To: Relations with their primary and foreign keys, which facilitates SQL

 To: Relations with their primary and foreign keys, which facilitates SQL to deal with retrieving, updating and deletion.

Note: The logical design is based on **the relational data model** in this course.



Phase 4: Physical Design

A SST PRIA 1990 Interprete Solid the resting the XXX and a mode of posteric database management system (DBMS).

 Assume that the logical data model is the relational data model. Then the physical design is to create relations in a DBMS that involves:

Selecting the files in which to store the relations.

• Deciding which indexes should be used to achieve efficient access.

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• The decisions made during the physical design phrase affect the performance and accessibility of the database.

Note: Details of this topic are out of the scope of our course.



Database Design Process

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