

Normalisation – Lesson overview

Data normalisation is the process of **breaking down complex, unorganised datasets** into a series of related tables that adhere to specific rules known as **normal forms**. By applying **normalisation rules**, data are organised in a structured manner, **reducing data duplication** and **dependency issues**.

In this lesson, we look at how we can apply **database normalisation principles**, known as normal forms, to **design well-structured** and **efficient databases** that promote data integrity and reduce redundancy.

Learning objectives

- Explain the importance of table normalisation in relational database design.
- Understand the three normal forms and their significance.
- Apply normalisation rules to transform unnormalised data into normalised forms.
- Design and implement normalised databases using best practices.

 Slide deck

 Knowledge questions

 Walk-through

 Notebook

 Exercise

 Reference card

