# Chapter 5 – Schema Design

A sound data model is the foundation of a performant and maintainable application. In this chapter, we’ll review the fundamentals of relational schema design, with a particular focus on aspects of schema design that bear on distributed database operations and on advanced CockroachDB features such as column families and JSONB support

## Logical Data modelling

### Third normal form

### Data types choices

### primary key choices

### Schema design patterns

#### Star Schema

## Indexing

### When and what to index

### Implicit indexes

### Covering indexes

### Index merge

### Inverted indexes

### Functional indexes

## Physical design

### Denormalizations

### JSON document models

### Column families

### Views and Materialized views