

SQL

- a Structured Query Language, which is used to store, manipulate and retrieve data from a relational database.
- the standard programming language used for a relational database such as MySQL, PostgreSQL and SQL Server.



What is a Relational Database

- A database that has a collection of tables of data, and these tables are linked based on defined relationships.
- Each table has a primary key which is used as a unique identifier for each row in that table.



Crow's Foot ER Diagram



One to One

Each record in each table only appears once



One to Many

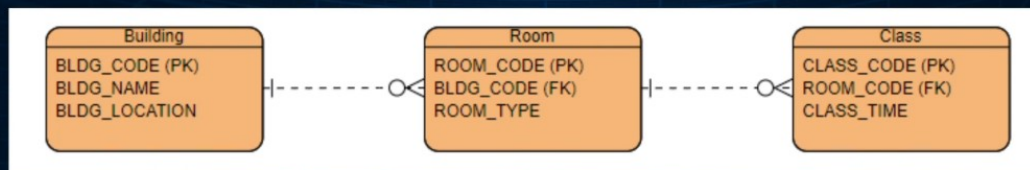
One record in one table can be associated with many records in another table



Many to Many

Multiple records in a table can be associated with multiple records in another table

Example:



MySQL Sample Database Diagram

