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Overview - Addendum

- Overview of the Databases Field
- Database Application Development
- Database System Architecture

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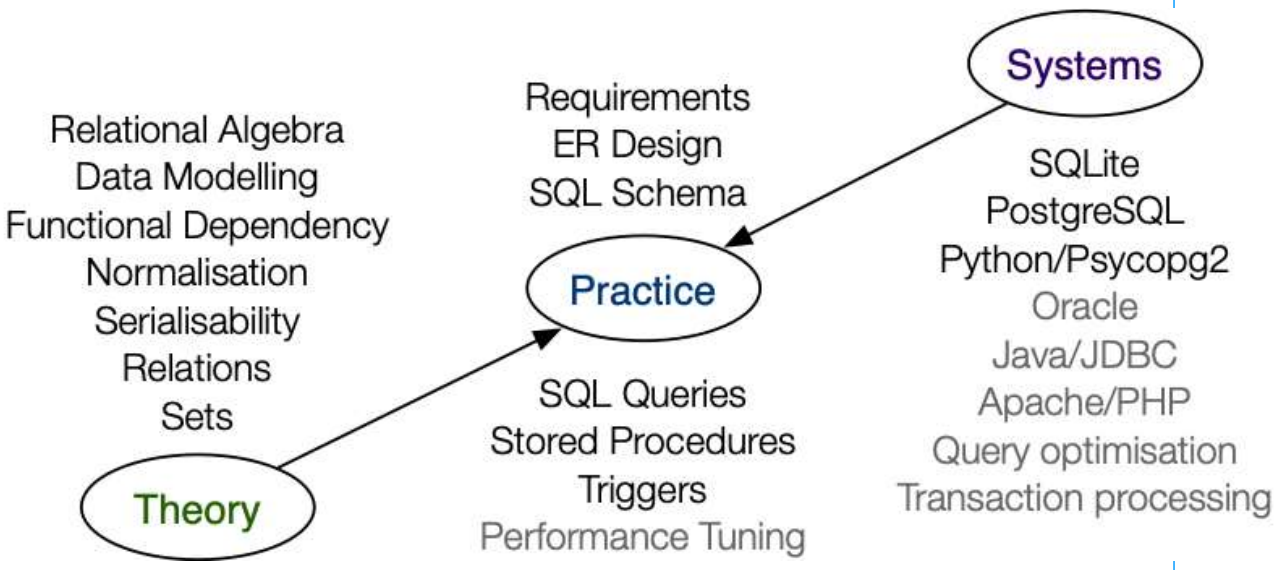
❖ Overview of the Databases Field



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❖ Database Application Development

A variation on standard software engineering process:

1. analyse application requirements
2. develop a data model to meet these requirements
3. check data model for redundancy (using relational theory)
4. implement the data model as relational schema
5. define operations (transactions) on this model
6. implement operations via SQL and procedural PLs
7. construct a program interface to these operations
8. monitor performance and "tune" the schema/operations

At some point, populate the database (may be via interface)

During the course, we consider these in the order 2, 4, 6, 7, 3

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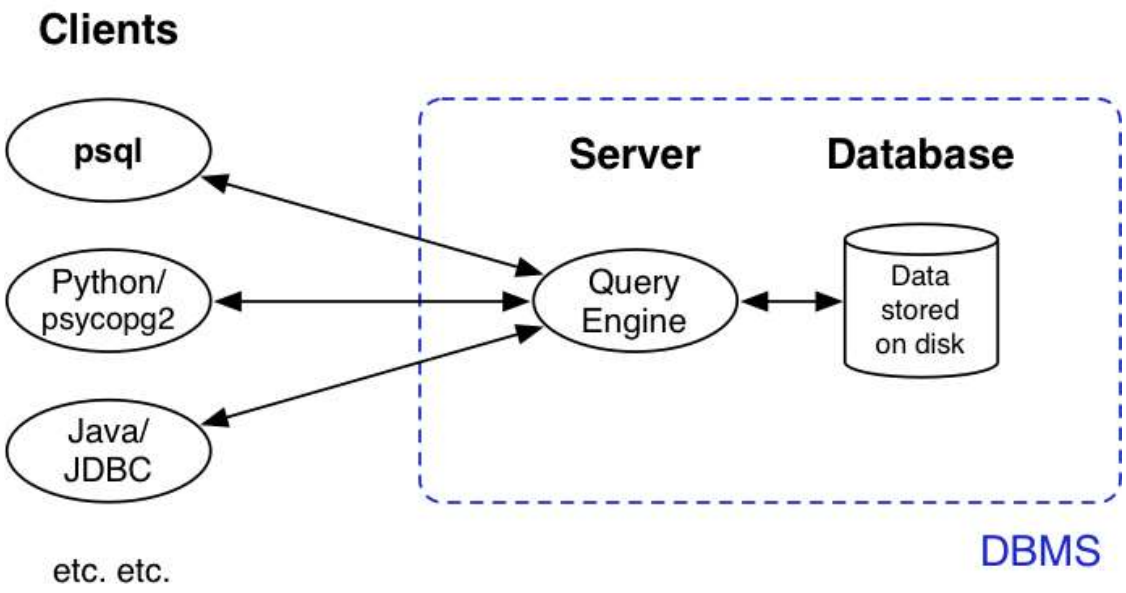
❖ Database System Architecture

The typical environment for a modern DBMS is:



SQL queries and results travel along the client↔server links

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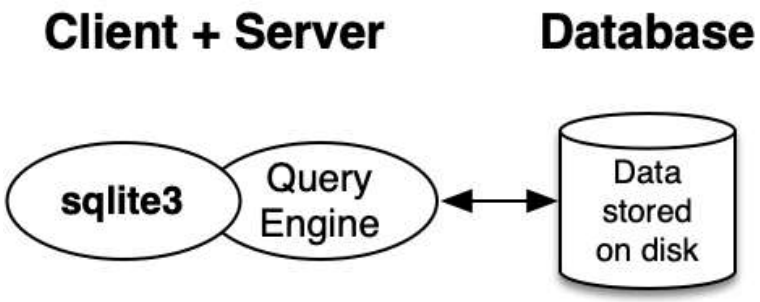
❖ Database System Architecture (cont)

SQLite is not a client-server system:



Although it does have an API for use from programming languages.

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