

Website Architecture

Lezione 15

PostgreSQL

An introduction to the DBMS server, looking at its specific features and also presenting it as an archetypal DBMS server, including design consequences.

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Intro to PostgreSQL





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Introduction to a DBMS server





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Example execution

Standalone console

Via an API





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Database configuration via GUIs





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Feature set

Advanced, server-characteristic features

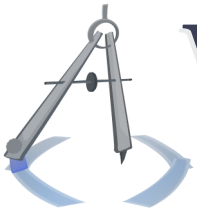
Complex query execution plans

Concurrency and correctness

Additional structural abstractions

Excellent software design





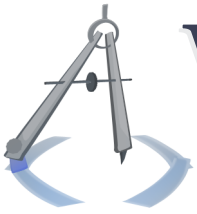
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Disadvantages

```
SELECT COUNT(*)
```





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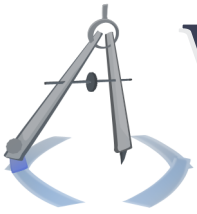
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General-purpose use

For large datasets

For multi-user/mult-role environments





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Website architecture implications

Abstract and efficient interface to database

Airtight security

Complex searching and query tasks

Separation of resources

Distributed architectures

