

Distributed Database

Munawar, PhD



Top Down Design



Design Problem

- ❖ In the general setting :

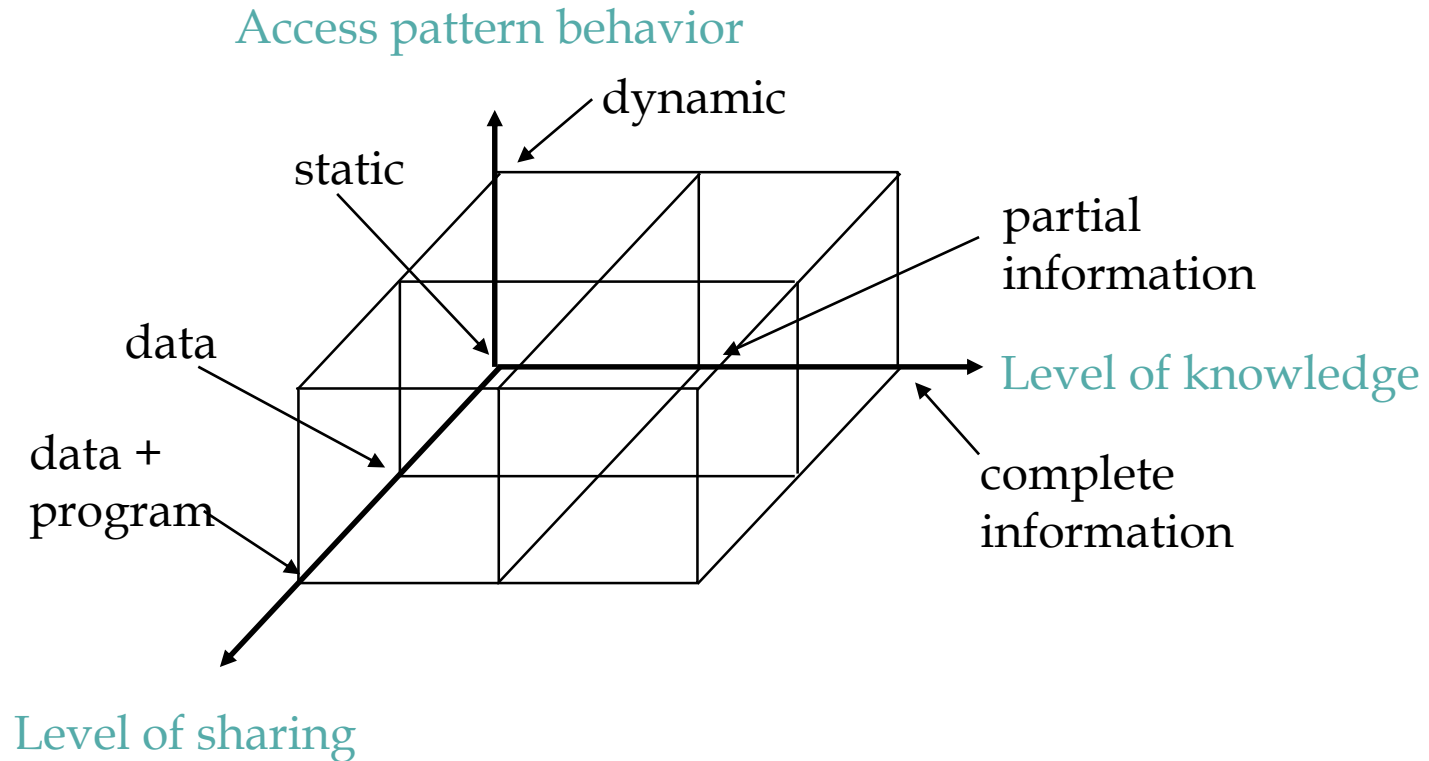
Making decisions about the placement of data and programs across the sites of a computer network as well as possibly designing the network itself.

- ❖ In Distributed DBMS, the placement of applications entails

- placement of the distributed DBMS software; and
- placement of the applications that run on the database



Dimensions of the Problem





Distribution Design

❖ **Top-down**

- mostly in designing systems from scratch
- mostly in homogeneous systems

❖ **Bottom-up**

- when the databases already exist at a number of sites

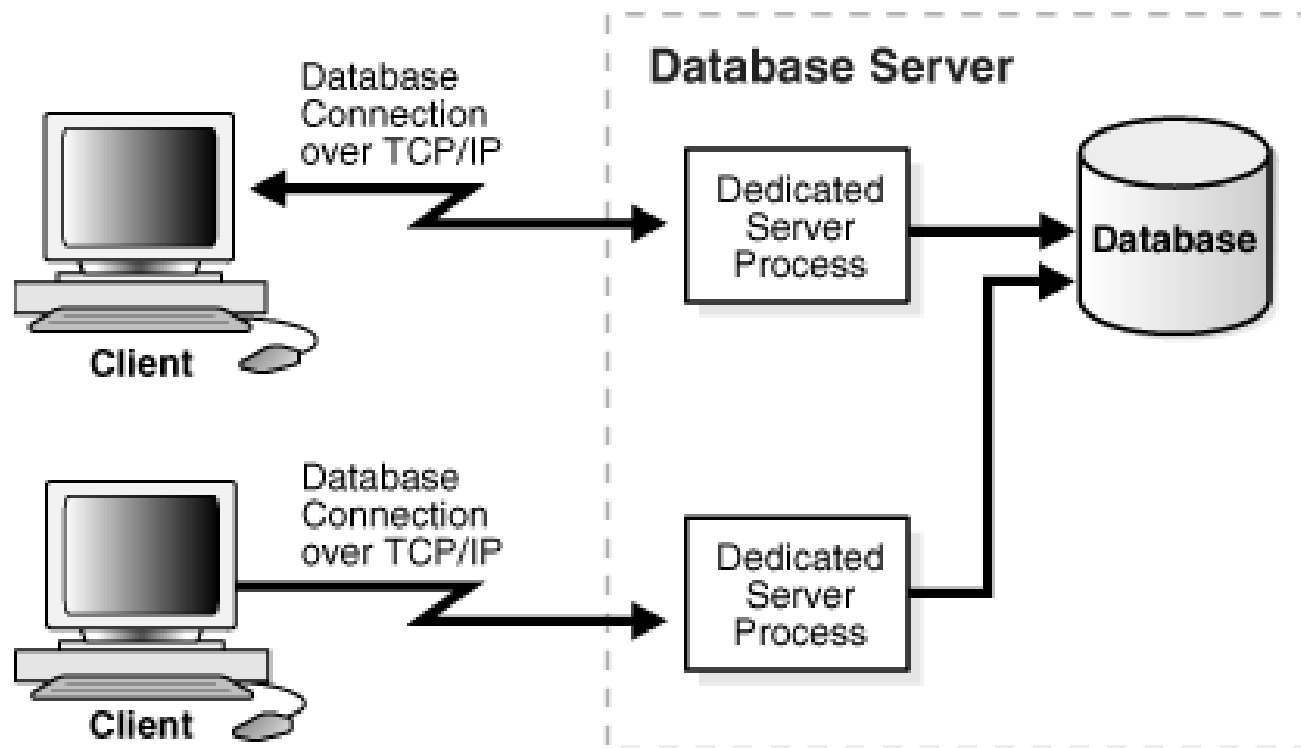


Distribution Design Issues

- ❖ Why fragment at all?
- ❖ How to fragment?
- ❖ How much to fragment?
- ❖ How to test correctness?
- ❖ How to allocate?
- ❖ Information requirements?

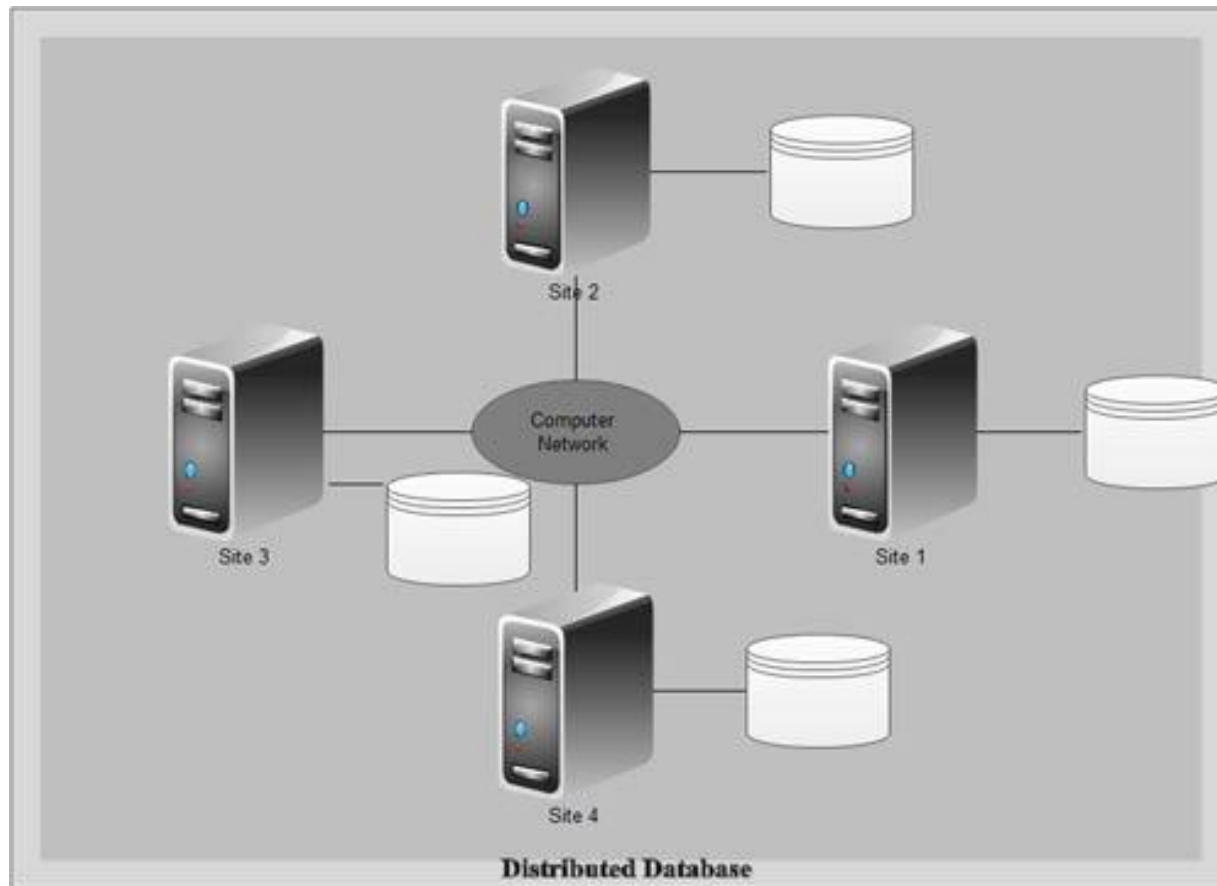


Database Server





Distributed Database Servers





Date's Twelve Rules for Distributed Database Systems



Sumber informasi <http://www.exploredatabase.com/2015/03/dates-twelve-rules-for-distributed-database.html>



Distributed Database Design – Top-Down Design Ileana ȘTEFAN and Maricel POPA

Paper (bahan diskusi) tittle *Distributed Database Design...* link url

https://ie.utcluj.ro/files/acta/2007/Number1/Paper11_Stefan.pdf

Thank You !

Munawar, PhD

