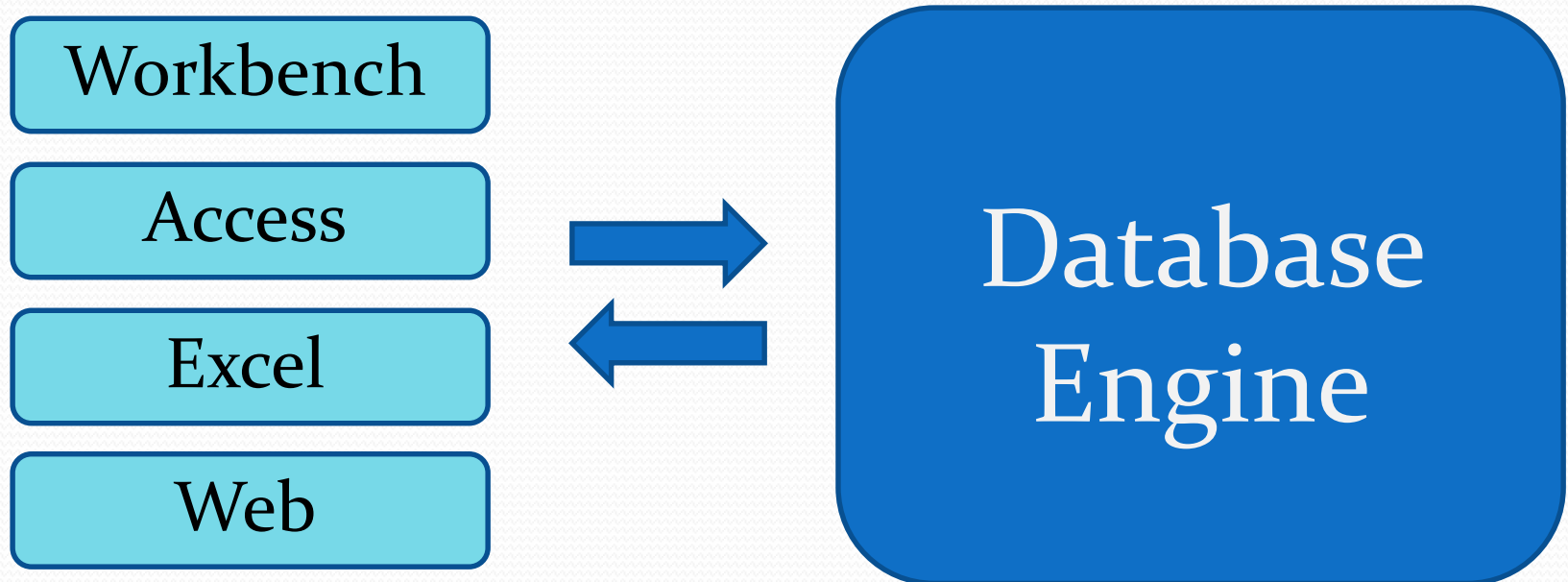


Distributed Databases

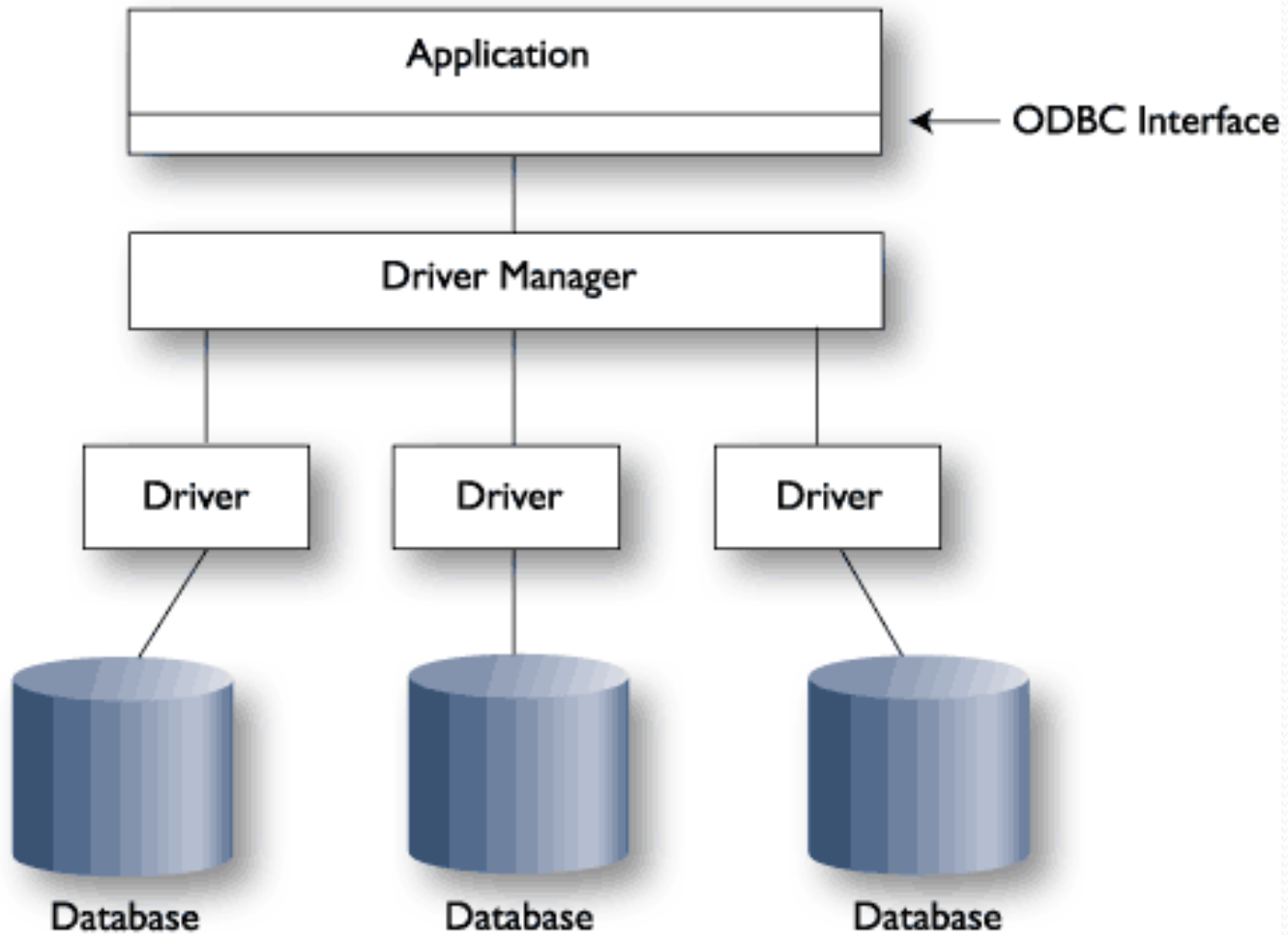
Promiscuous Server-based DBMS

- A server-based database management system allows many users (clients) to interact simultaneously, increases processing power, and reduces bandwidth.



ODBC - Open Database Connectivity

- Standard programming language middleware
- Relational and non-relational databases
- Translation layer
- CLI, JDBC, iODBC all based on ODBC
- Universal standard for cross-platform data access
- An ODBC-compliant application works with any DBMS that has a driver installed. (And almost every serious DBMS has a ODBC driver.)
- Buyer's assurance.

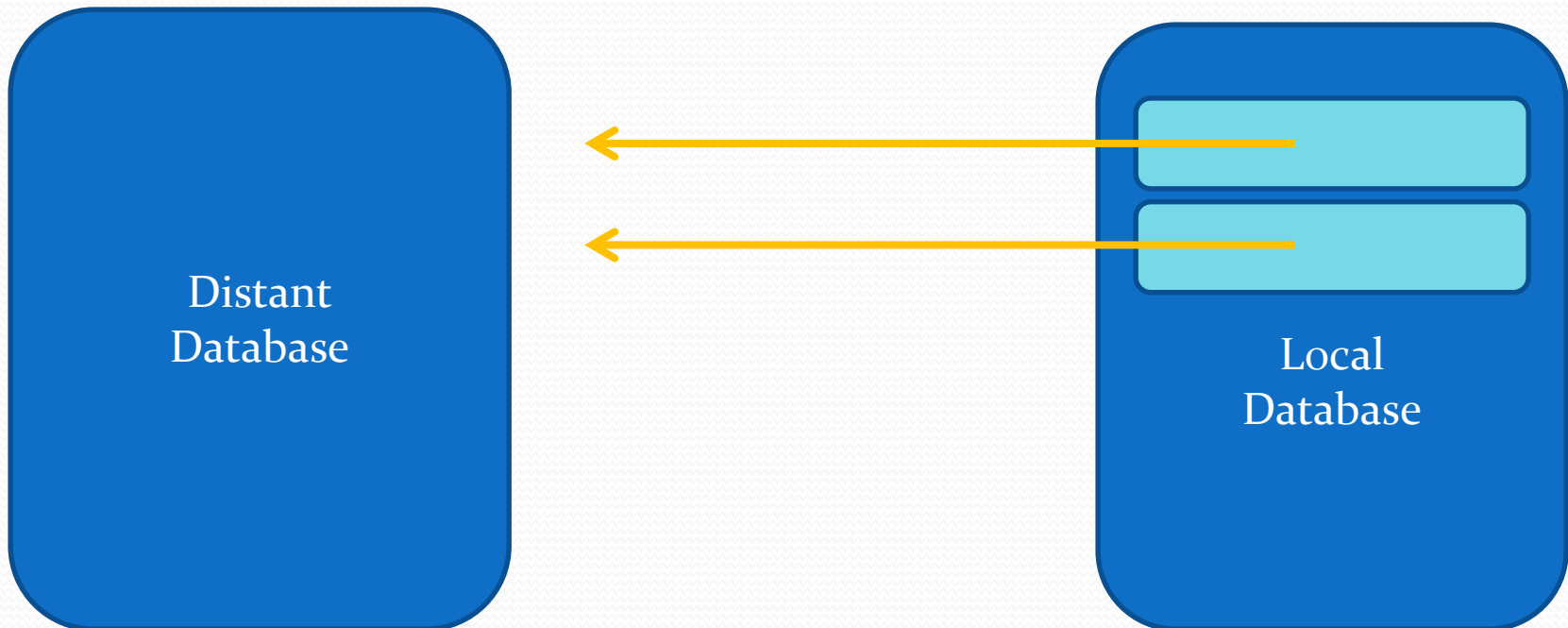


Distributing Storage

- Data is stored on one or more servers
- Edge technology
- Enterprise databases stored on multiple servers
- Redundancy
- Less-used data stored “nearline”
- [Google Data Center](#) video

Federation

- Data is stored on master server(s)
- Child servers maintain “views”
- Only structures and relationships stored locally



Cloud Databases

- Upsides

- Database storage and maintenance is centralized
- Easier to deploy a new database
- Lots of creative applications with easy collaborations
- Saves bandwidth... yada, yada

- Downsides

- Where's Waldo's data? Who's looking for it?
- Tracking browsing, trading, and users
- Lots of evil applications with easy collaborations
- Increases bandwidth usage

Lightbeam Demo

- Who's zoomin' who?
- Firefox add-in to track the trackers



Lightbeam
for Firefox



FORDFOUNDATION



Databases Dominate!!!

She who has the best database wins...

