

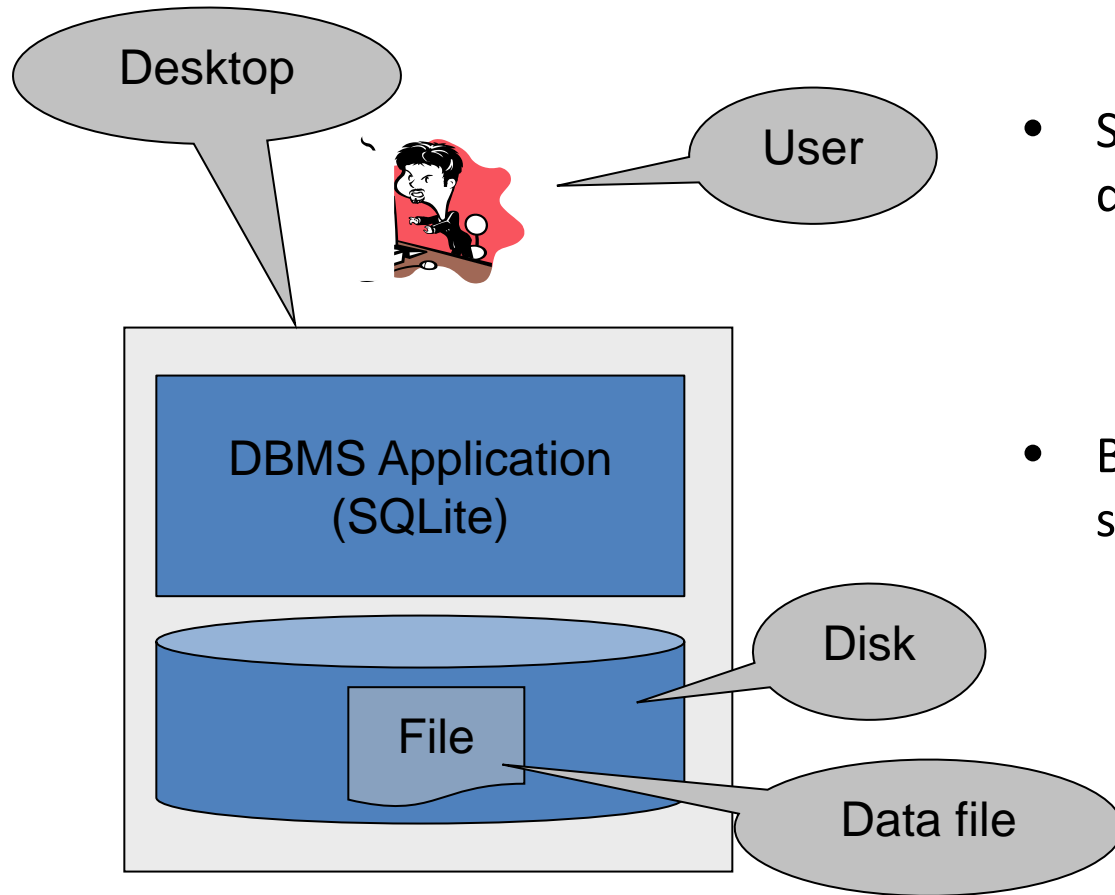
CSE 344 Introduction to Data Management

Section 4: SQL Azure

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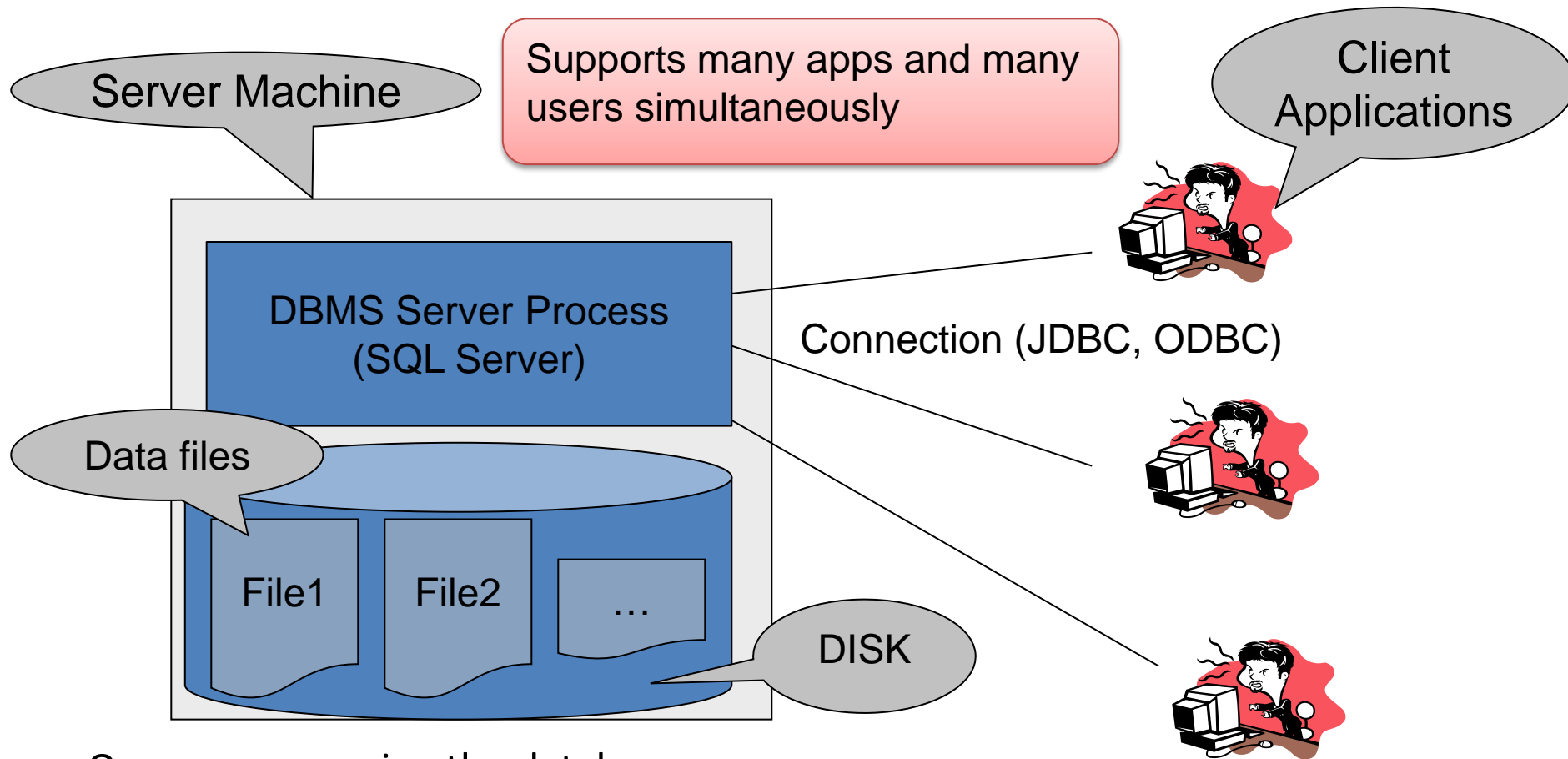
Review

Data Management with SQLite



- So far, we have been managing data with SQLite as follows:
 - One data file
 - One user
 - One DBMS application
- But only a limited number of scenarios work with such model

Client-Server Architecture



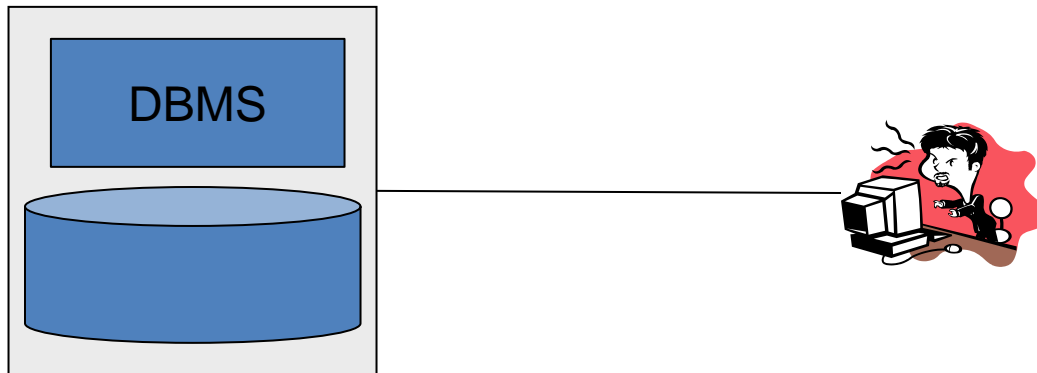
- One server running the database
- Many clients, connecting via the ODBC or JDBC (Java Database Connectivity) protocol

Client-Server Architecture

- One *server* that runs the DBMS (or RDBMS):
 - Your own desktop, or
 - Some beefy system, or
 - A cloud service (SQL Azure)
- Many *clients* run apps and connect to DBMS
 - Microsoft's Management Studio (for SQL Server), or
 - psql (for postgres)
 - Some Java program (HW5) or some C++ program
- Clients “talk” to server using JDBC/ODBC protocol

Using a DBMS Server

1. Client application establishes connection to server
2. Client must authenticate self
3. Client submits SQL commands to server
4. Server executes commands and returns results



Homework 3

Homework 3

- Connect to an instance of SQL Server on Windows Azure and practice advanced SQL
- Due Thursday, 6th February 2013, at 11:59 pm

Server

- Microsoft SQL Server
 - a commercial RDBMS developed by Microsoft
 - has different editions, each of which targets different audience and use cases
- Windows Azure
 - a cloud-based service using a special version of SQL server as its backend
 - supports a subset of SQL server functionalities

Client

We have two options for HW3

1. Web browser

<https://m01rrgdwg2.database.windows.net/>

(Doesn't work with Chrome in Mac OS X)

2. SQL Server Management Studio 2008 R2

Already installed on the Windows lab machine or
VDI machines (<http://vdi.cs.washington.edu/vdi/>)

1. Web browser

<https://m01rrgdwg2.database.windows.net/>

(Doesn't work with Chrome in Mac OS X)

Details:

- First login with the below credentials and change your default password using the command shown in the box

User: csenetid

Password: SQLcse344

Database: master

```
ALTER LOGIN csenetid WITH  
PASSWORD='new_password'  
OLD_PASSWORD = 'old_password'
```

- Now relogin with your new password and select database as IMDB

1. Web browser

Management Portal - SQL Database

https://m01rrgdwg2.database.windows.net/#\$entity=NewQuery&id=1&workspace=Query

m01rrgdwg2.database.windows.net > [IMDB] > Query(Untitled1.sql)*

User: daseul [Log off](#) [Help](#)

IMDB

My Work (1) [↗](#)

Query(Untitled1.sql)

New Query Open Save As Run Actual Plan Estimate... Stop

```
select count(*) from movie;
```

Messages Results **Query Plan**

1 100% select count(*) from movie

Sort by:

- Total
- CPU
- IO

Find by:

- None

Warnings

Scan

0% 0% 14.1% 35.9%

SELECT Compute Scalar Stream Aggregate Index Scan

Overview Administration Design

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2. SQL Server Management Studio

Already installed on the Windows lab machine or VDI machines (<http://vdi.cs.washington.edu/vdi/>)

Server type: Database Engine

Server name: m01rrgdwg2.database.windows.net

Authentication: SQL Server Authentication

Login: Your CSE netid

Password: SQLcse344 (to be changed on first login)

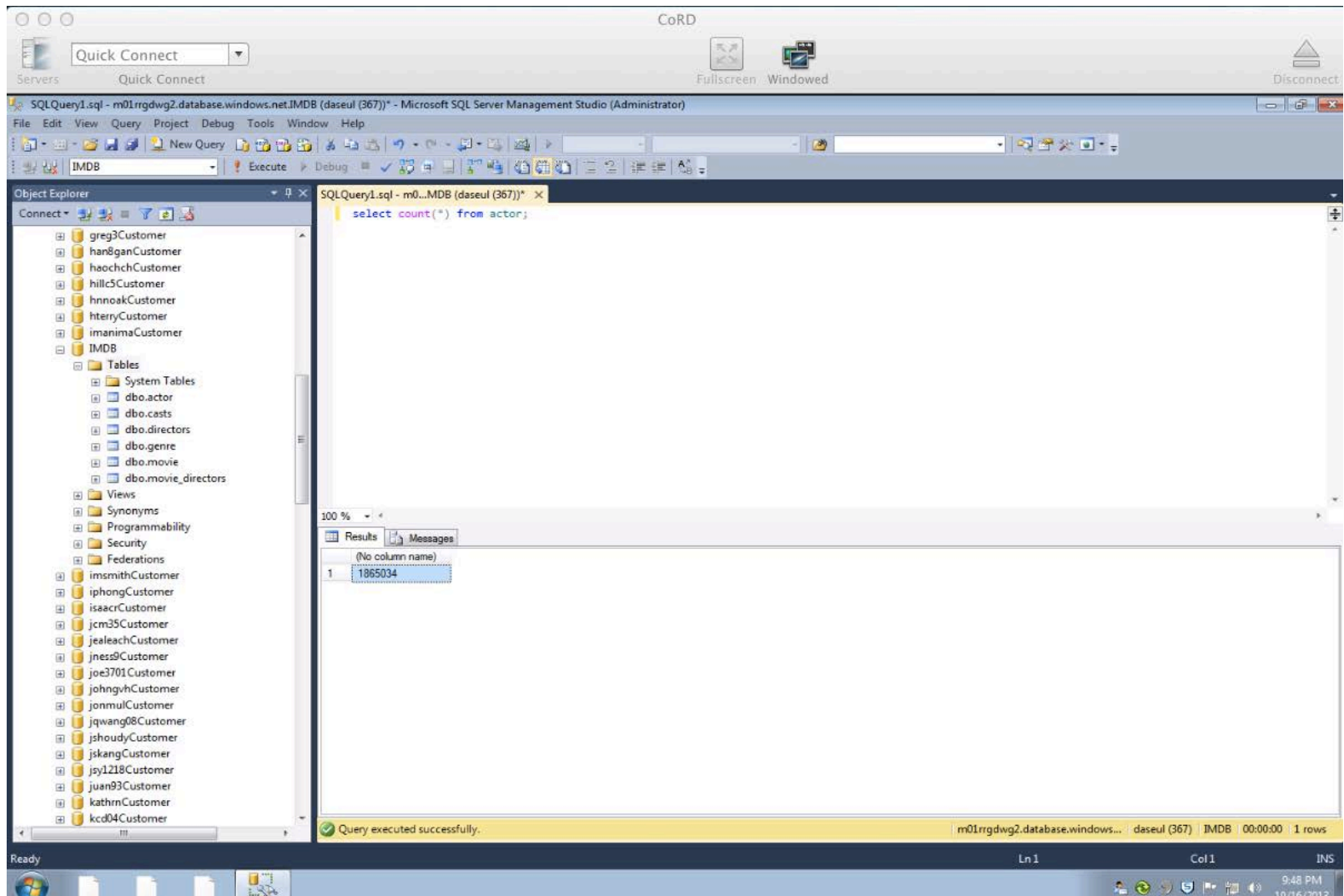
2. SQL Server Management Studio

Q. How to connect to VDI?

- See availability here: <http://vdi.cs.washington.edu/vdi/>

- Mac Users: Use CoRD to connect
- Windows Users: All Programs -> Accessories -> Remote Desktop connection
- Linux Users: You need an RDP client (rDesktop or similar)

2. SQL Server Management Studio



Questions?