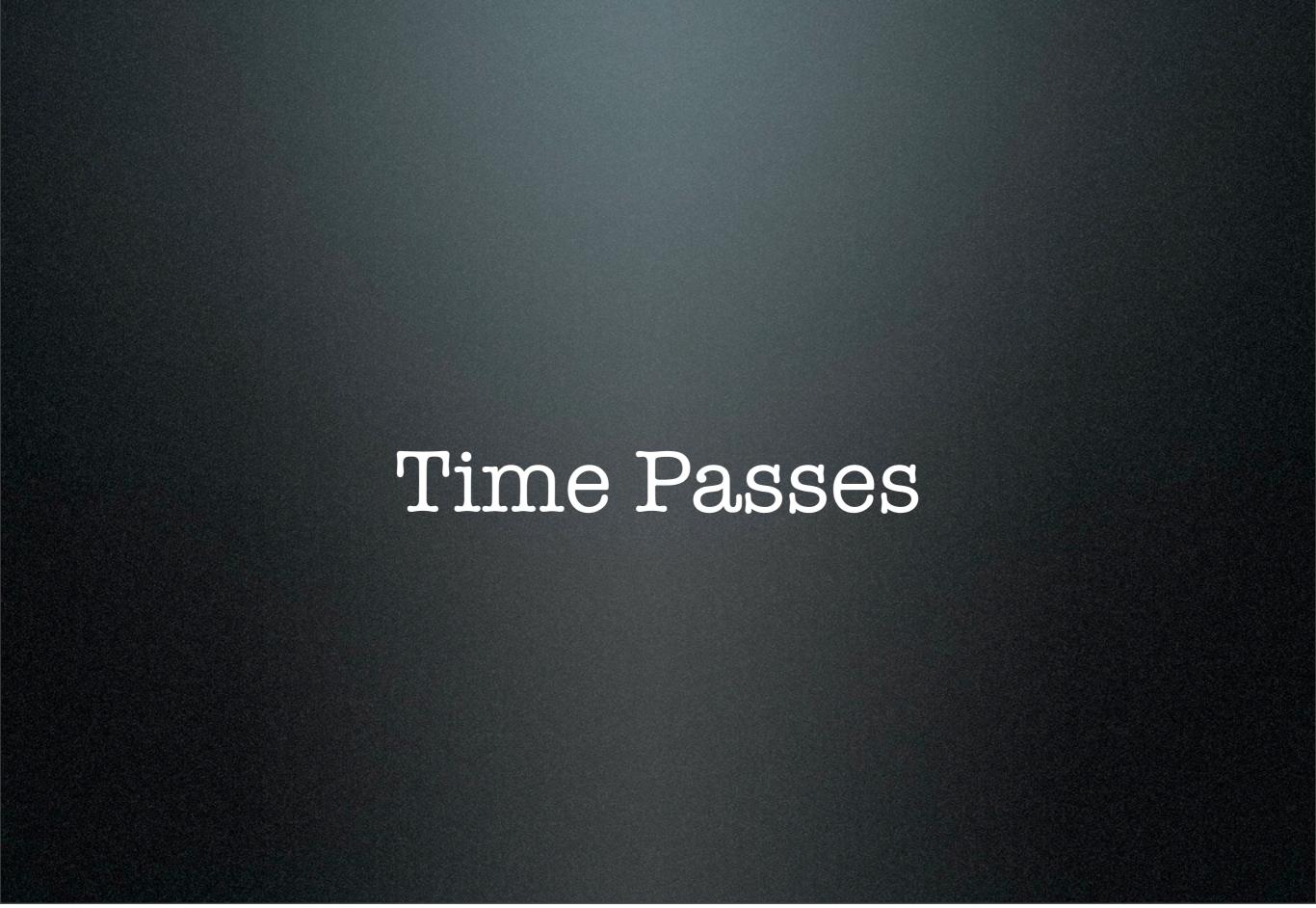
SQL Server Is the best RDBMS

I love you, will you marry me?



SQL Server, You're being kind of immature

SQL Server, Why are you running up our credit card?

SQL Server, what is with your friend Sharepoint?

Maybe I should see what else is out there

SQL Server, I'm filing for divorce

Intruder Alert

- You can call me Rob
- SQL Server DBA
- Dictator-Base Administrator
- Douche-Bag Administrator
- Better than the SAN Admin





Religious Debates

- Microsoft / Oracle both have people called "Evangelists"
- Your backend isn't a religion



Which is best? SQL Server vs Postgres

- Not the question we are trying to answer
- Less emotion, more pragmatism
- They are just databases man

But Postgres is open "sores"





Visualization Helps

Postgres



SQL Server



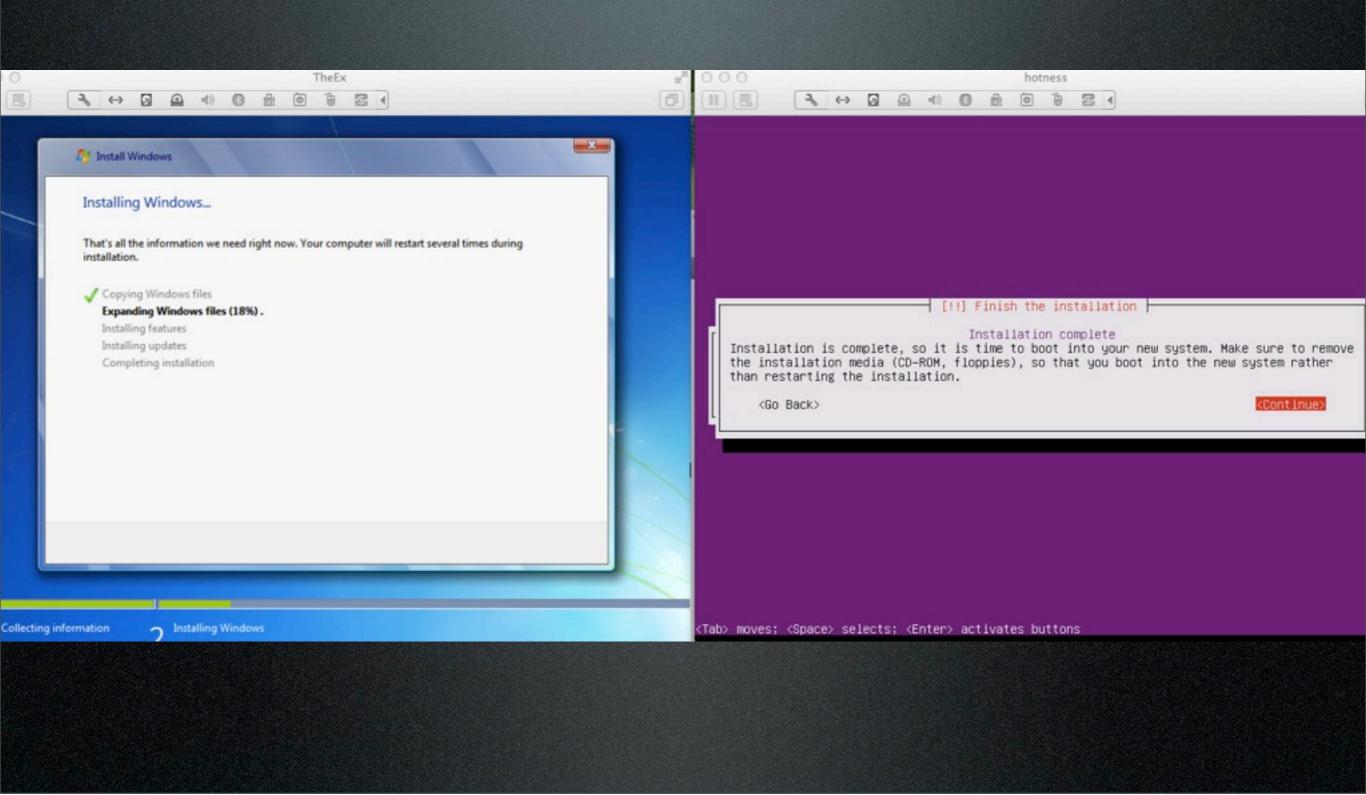
Blinding Speed of Closed

- 3 year or so release cycle for SQL Server
- Oh you need something? Don't call us, we'll call you

Why I choose Windows

- I hate freedom and filesystem choices
- I need a Browser, Silverlight and Games folder on my DB Server
- RAM grows on trees
- What is an "SSH"?

Windows is still a good choice



Installing SQL Server is easy

- The installer has an installer
- Only 22 simple screens
- Postgres has Schemaverse... SQL
 Server has its installer

Installing Postgres is Hard

- apt-get install -y postgres
- Press Return (slang for Enter)

Microsoft Licensing

• Disclaimer - Confusing Slide Ahead

I've got 99 Invoices but Postgres Ain't One

- 16 Logical Core box
- (# of cores * Core Factor Table) / 2 for core pack pricing
- (16*1)/2*\$13,300 = 106,400
- \$1,525 Windows Server license
- \$107,925 O.M.F.G

But wait, there's more

 Now we buy 3rd party tools to remove the suck

MS - It's your (de)fault

- Defaults to 2048TBs RAM usage
- Won't compress backups
- Send alerts to your Pager!
- Send alerts via Netsend (deprecated)

Functions and Indexes

- Index only Queries
- Index on a function

Hold the Line

- I have to manually update stats
- I have to manually defrag indexes
- How I deal with indexes depends on how much I have spent on SQL Server
- And I have little control over all of this

Backup the Truck

SQL Server:

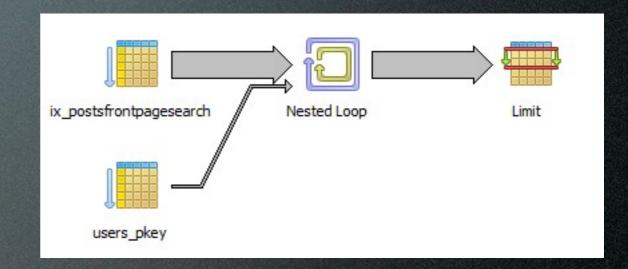
BACKUP DATABASE [pgcon]
TO DISK = 'NULL'
WITH FORMAT, COMPRESSION

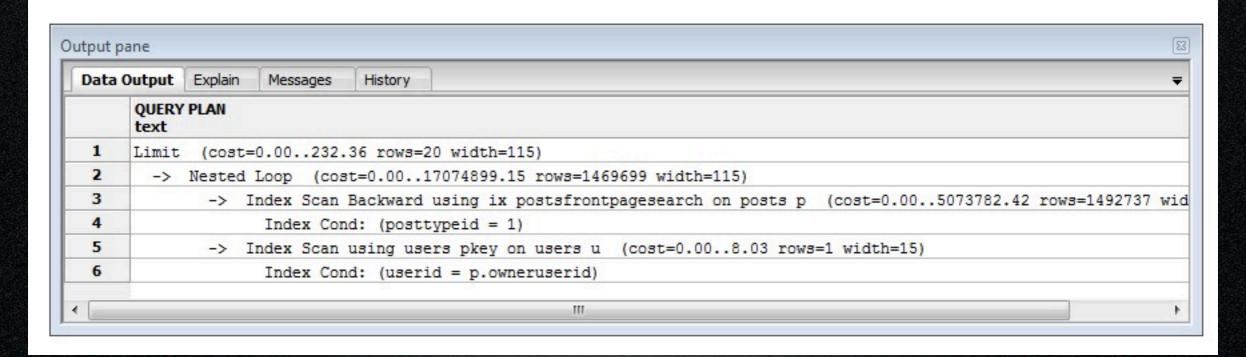
Postgres:



Query Tune Postgres

```
explain select p.postid, p.answercount,p.viewcount,p.title
,p.tags,u.userid,u.displayname,u.reputation
from posts p inner join users u on p.owneruserid = u.userid
where p.posttypeid = 1
order by p.creationdate desc
limit 20
```





Query Tune SQL Server

```
<StmtSimple StatementText="%#xD;%#xA;select top 20 p.postid, p
  <StatementSetOptions QUOTED IDENTIFIER="true" ARITHABORT="tru
  <QueryPlan CachedPlanSize="40" CompileTime="10" CompileCPU="1
    <RelOp NodeId="0" PhysicalOp="Top" LogicalOp="Top" Estimate</p>
        <ColumnReference Database="[stackoverfaux]" Schema="[di
        <ColumnReference Database="[stackoverfaux]" Schema="[db
        <ColumnReference Database="[stackoverfaux]" Schema="[db
        <ColumnReference Database="[stackoverfaux]" S</p>
        <ColumnReference Database="[stackoverfaux]" Schema="[dbe
      </OutputList>
      <Top RowCount="0" IsPercent="0" WithTies="0")
          <ScalarOperator ScalarString="(20)">
        </TopExpression>
            <ColumnReference Database="[stackoverfaux]" Schema=</p>
            <ColumnReference Database="[stackoverfaux]" Schema=
            <ColumnReference Database="[stackoverfaux]" Schema=
```

Are all tables created Equally?

Config Params

Session Params

Postgres adapts as my data adapts

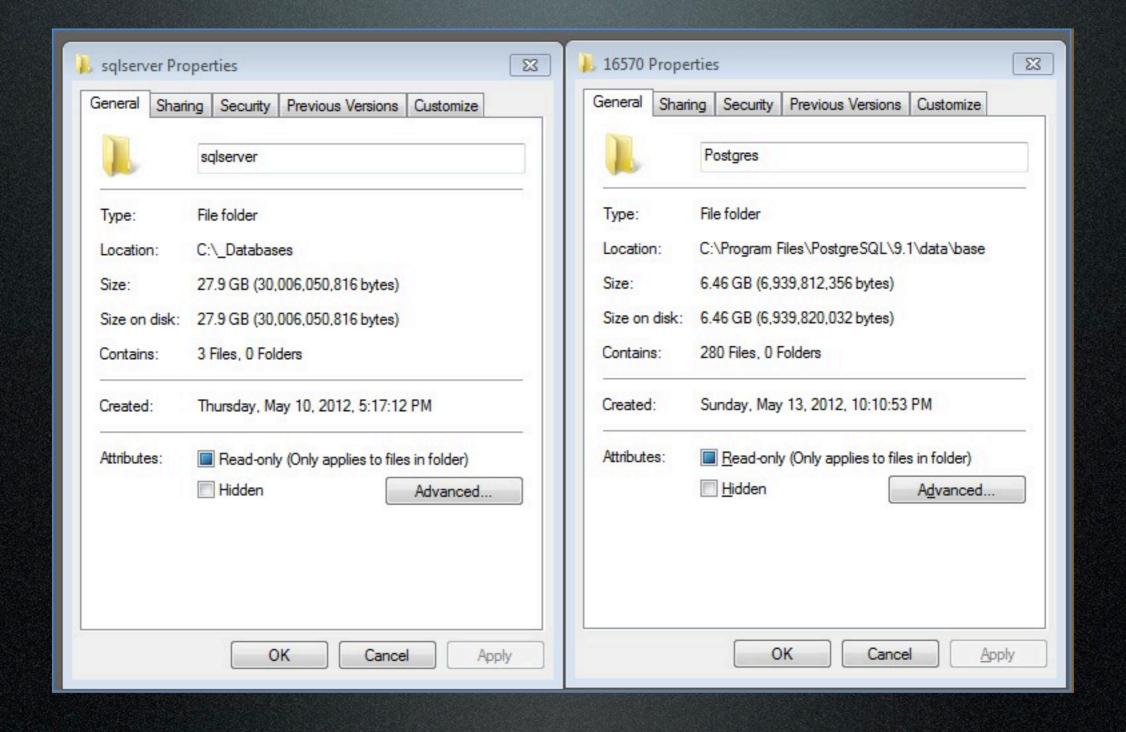
Modern Development

- Postgres 9.2 has a JSON Type
- Postgres has V8 Module
- This is hot and sexy in the fast world of App-Devery

What edition of SQL Server has V8 or JSON?

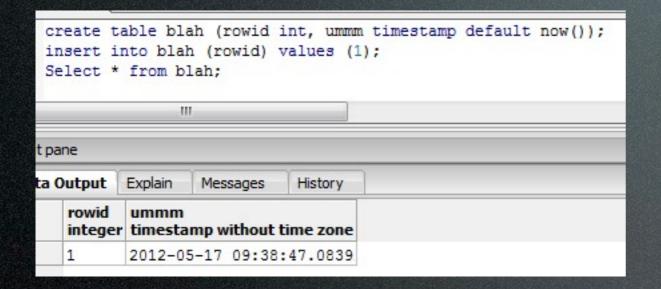
• Upcoming feature in SQL Server - "Nein"

Hungry for TOAST!

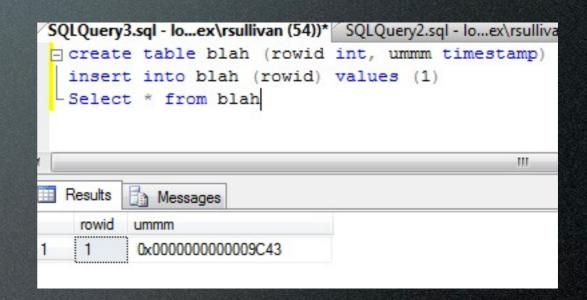


Data Types!

Postgres Timestamp



SQL Server Timestamp



Speaking of Timestamps

Infinity... WHOA!

All Balls... WHAT?!

But Rob, SQL Server is a "Data Platform"

- SQL Server Engine
- ETL Tools
- Reporting Tools (SSRS)
- Analysis Tools (SSAS)

Tech World Moves Fast

- FDW can help with ETL
- Reporting is a fairly solvable problem
- SSRS is not all that

Analysis is interesting

- We need distributed, parallel, fast execution on gigantic aggregates
- Google CitusData, email Umur and call it a day!

What about our app?

- Drivers / ORMs and other gotchas
- How hard can it be to go to Linux?



What else makes Postgres Great?

YOU

Thank you sponsors!

@datachomp