

http://aka.ms/cs443

Presentation & code Github repo.

Agenda

- Objective
- Global cloud service vender
- Machine Learning & Hadoop in real world business
- Cloud and Machine Learning solution architecture debrief with "code"



Azure AVVS GCP



Google Cloud Platform







Azure Momentum

100,000

New Azure customer subscriptions/month

20 Million

SQL database hours used every day

>50 Trillion

Storage objects in Azure

425 Million

Azure Active Directory Users

60 Billion

Hits to Websites run on Azure Web App Service 57%

Of Fortune 500 Companies use Microsoft Azure

>5 Trillion

Storage transactions every month

1 Trillion

Messages delivered every month with Event Hubs

1.4 Million

SQL Databases Deployed In Azure "Microsoft is growing its cloud revenue faster than Amazon" — Business Insider 2016

AWS revenue grew about 69% but Microsoft Azure revenue grew by 127%

>80%

of Fortune 500 use the Microsoft Cloud





















































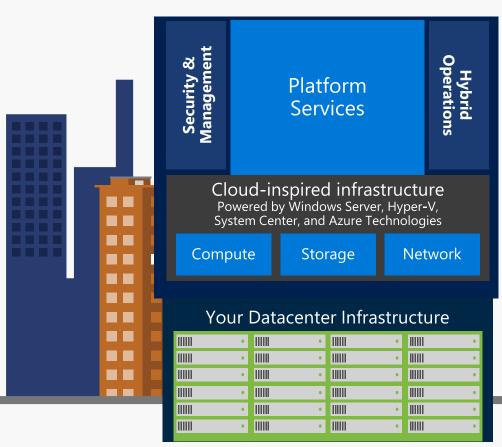








The Microsoft Platform Strategy

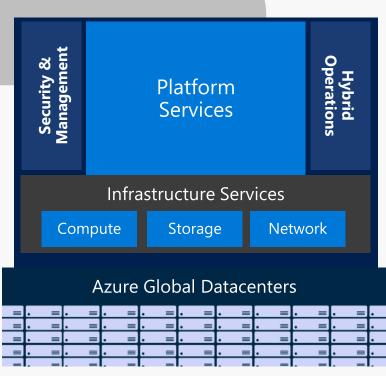


Microsoft Azure Stack & Cloud Platform System

• Office 365, CRM, AX, VS Online, etc

Global SaaS Market





Microsoft Azure
Public, Global, Shared Datacenters

What do others say..?

A look inside Gartner Magic Quadrants...

- Microsoft leads in core cloud technologies, laaS, PaaS, Private and Public Clouds
- Microsoft leads in 19 Gartner MQ's

Topic Area	Magic Quadrant	Last Release	Microsoft
Application Development	Application Development Life Cycle Management	Feb-15	Leader
Business Applications	Business Intelligence and Analytics Platforms	Feb-15	Leader
Software Infrastructure	Client Management Tools	May-15	Leader
Software Infrastructure	Cloud Infrastructure as a Service	May-15	Leader
Business Applications	CRM Customer Engagement Center	Apr-15	Leader
Software Infrastructure	Data Warehouse Database Management Systems	Feb-15	Leader
Software Infrastructure	Enterprise Application Platform as a Service	Mar-15	Leader
Business Applications	Enterprise Content Management	Oct-15	Leader
Software Infrastructure	Horizontal Portals	Sep-15	Leader
Application Development	Integrated Software Quality Suites	Aug-14	Leader
Software Infrastructure	On-premises Application Integration Suites	Jul-14	Leader
Software Infrastructure	Operational Database Management Systems	Oct-15	Leader
Software Infrastructure	Public Cloud Storage Services	Jun-15	Leader
Business Applications	Sales Force Automation	Jul-15	Leader
Software Infrastructure	Secure Email Gateways	Jun-15	Leader
Business Applications	Social Software in the Workplace	Oct-15	Leader
Communications Equipment	Unified Communications	Aug-15	Leader
Software Infrastructure	Web Conferencing	Dec-15	Leader
Software Infrastructure	x86 Server Virtualization Infrastructure	Jul-15	Leader



Magic Quadrant for



Magic Quadrant for



Magic Quadrant for

Enterprise Application



Magic Quadrant for

Analytics Platforms

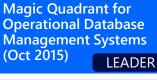
Business Intelligence and



Magic Quadrant for

Infrastructure

X86 Server Virtualization





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The Azure Platform

Platform Services











Infrastructure Services





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Storage

 \equiv

 \equiv











Networking





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Datacenter Infrastructure (30 Regions, 22 Generally Available)

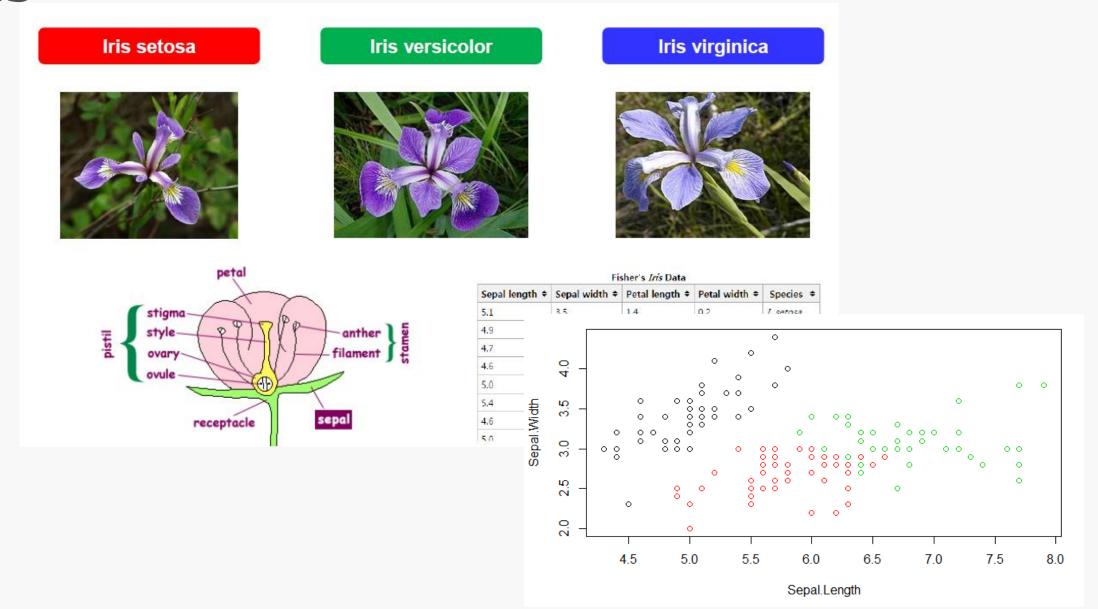
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Back to the,

Machine Learning in real world business

Iris



Machine Learning

Game user churn prediction In-Game item suggestion

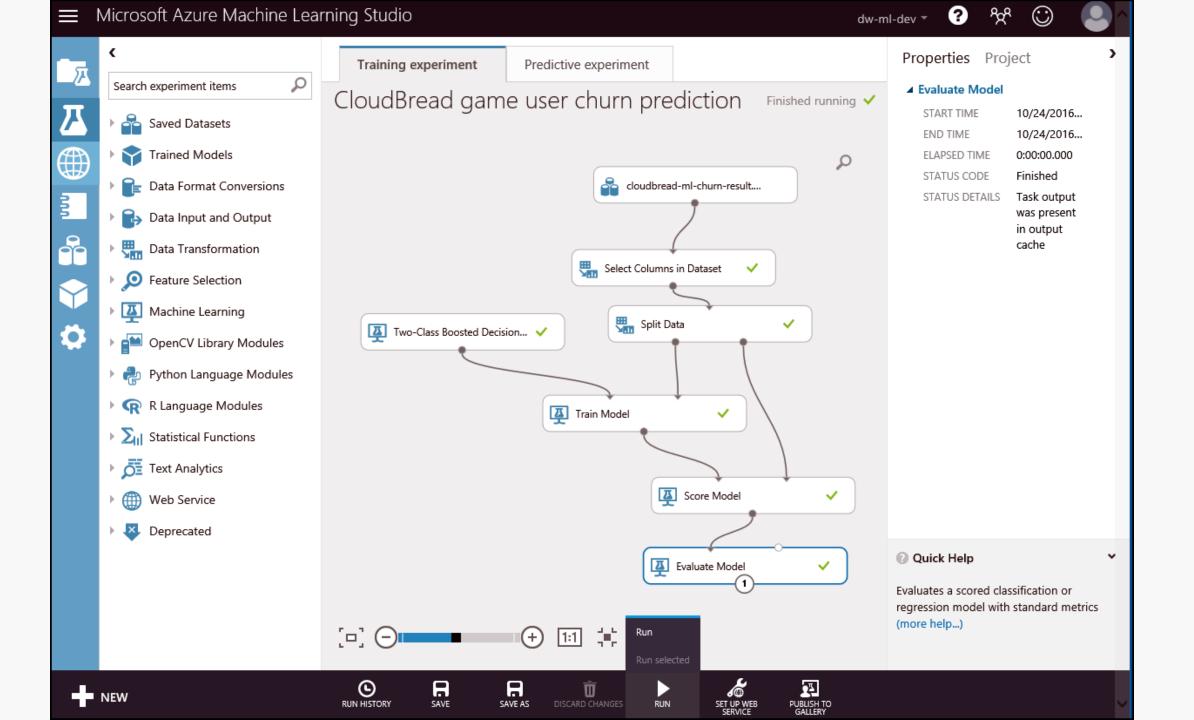
Machine Learning

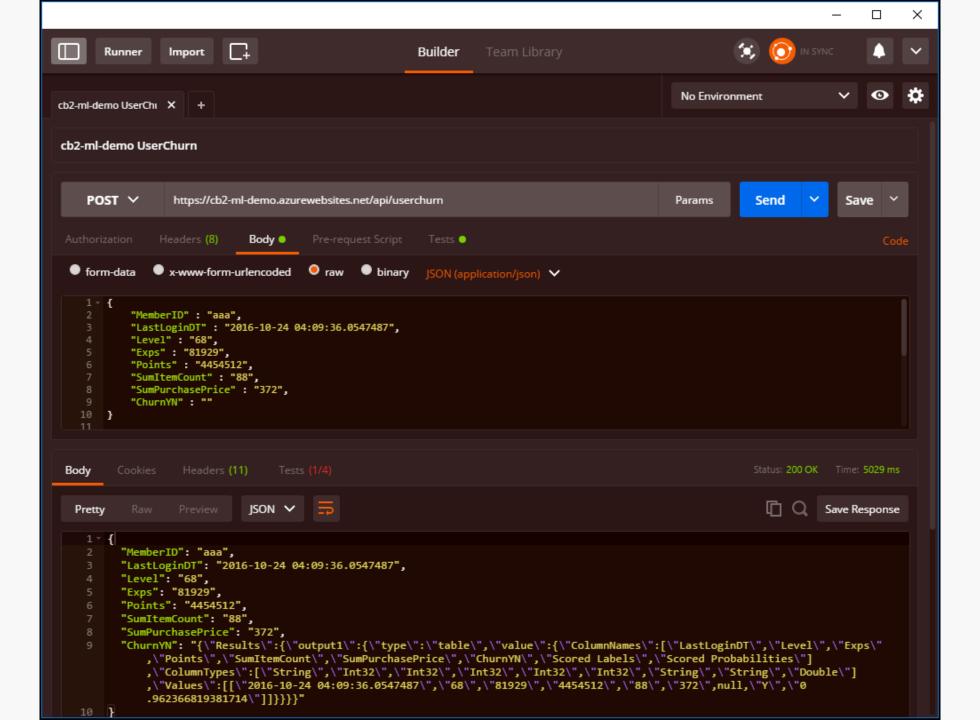
Predict customer churn

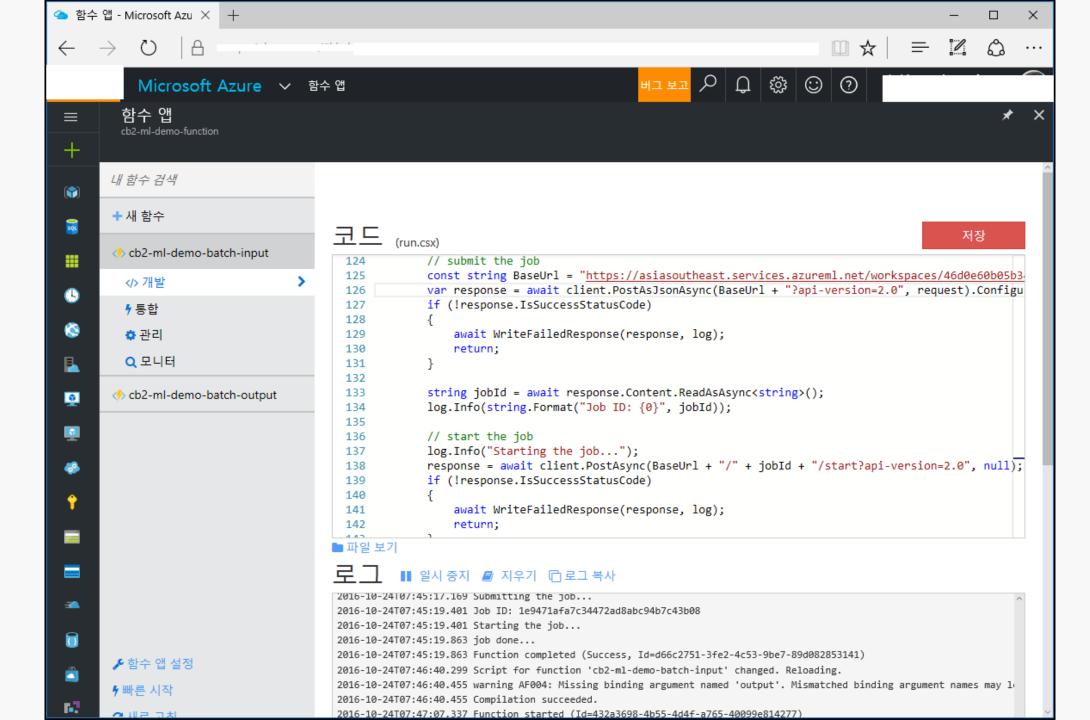
Leave or not

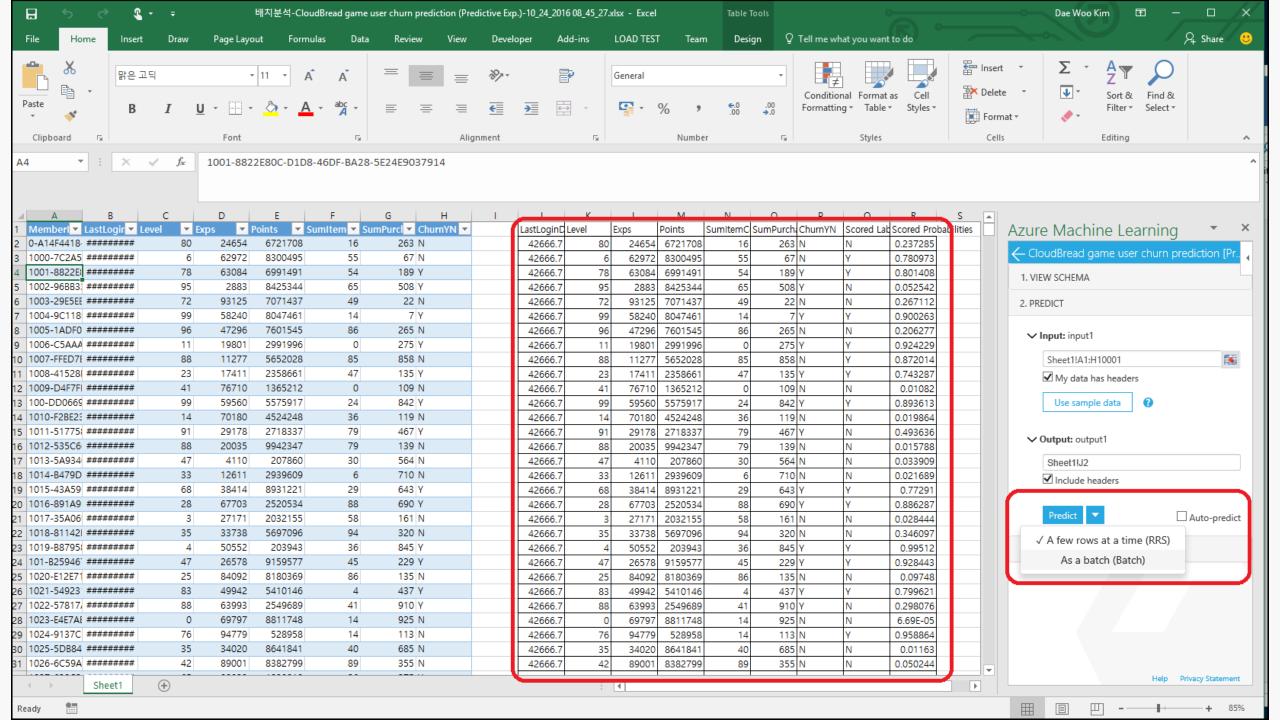


Demo









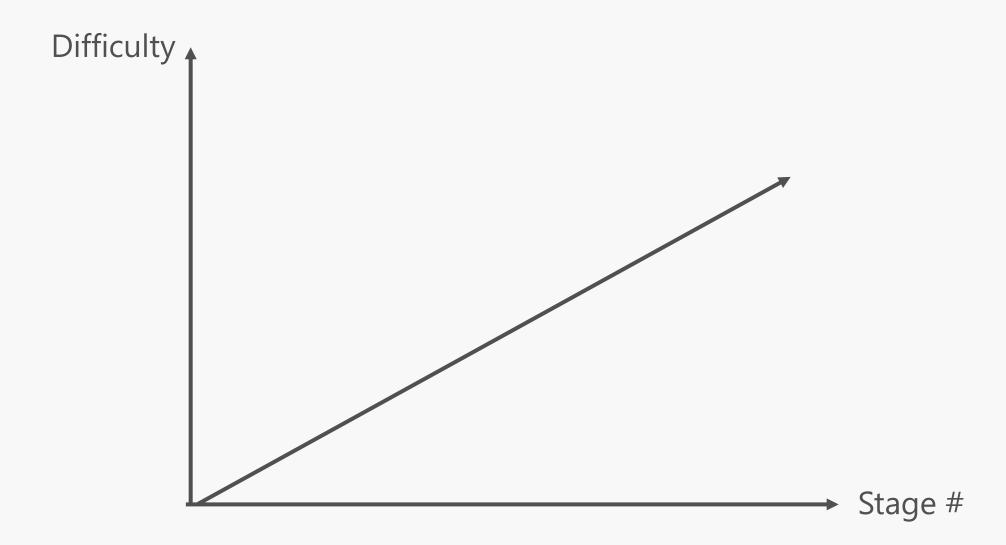
Machine Learning

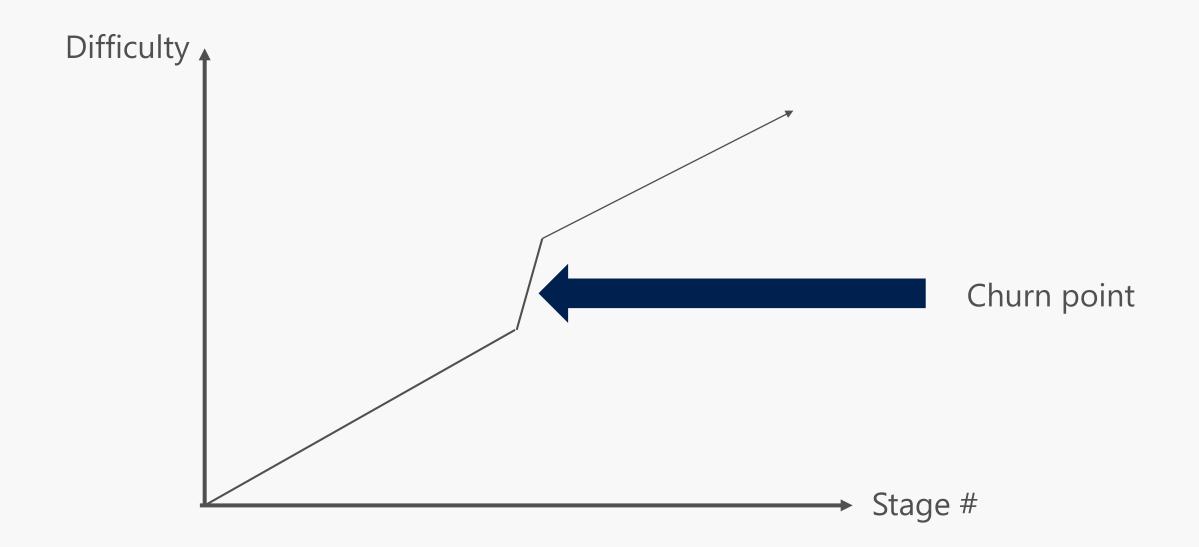
Predict product suggestion

Promote personalized experience

Game level design

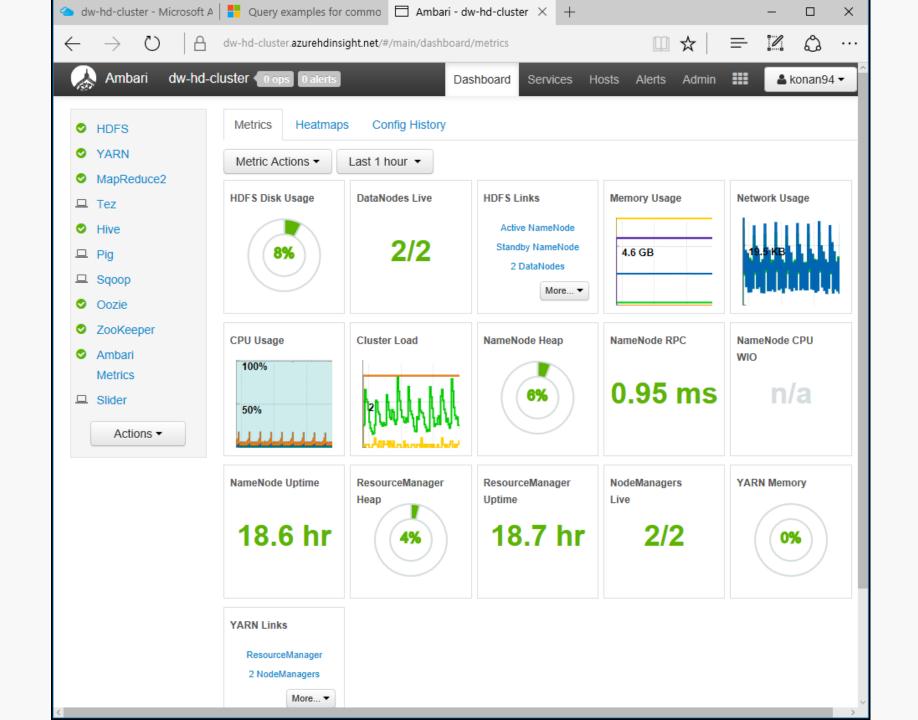
/w big data analytics, Hadoop - HDInsight

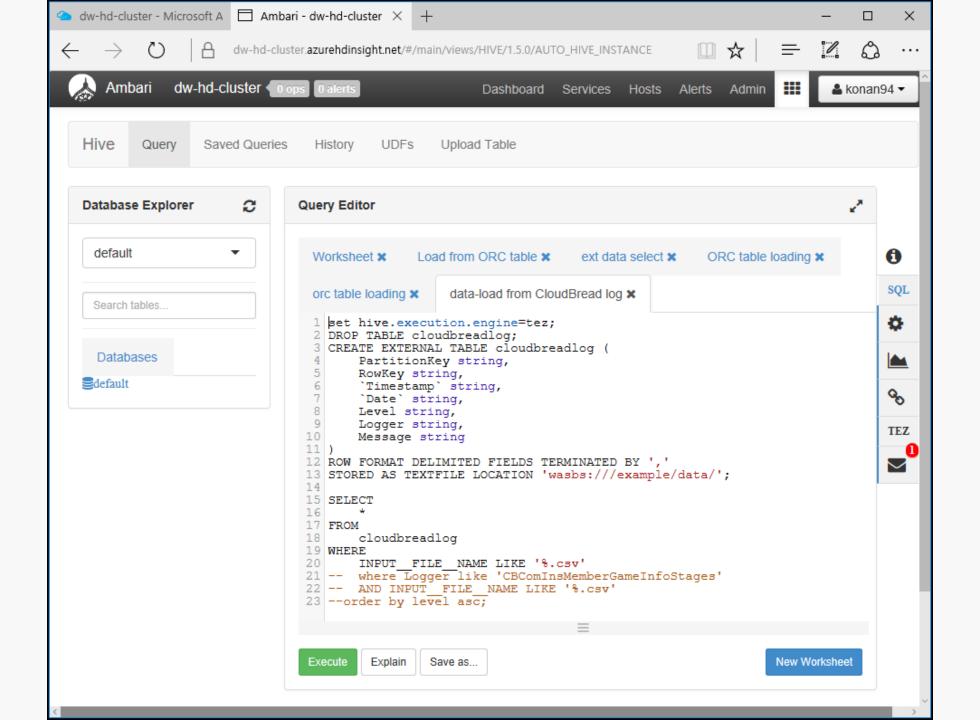


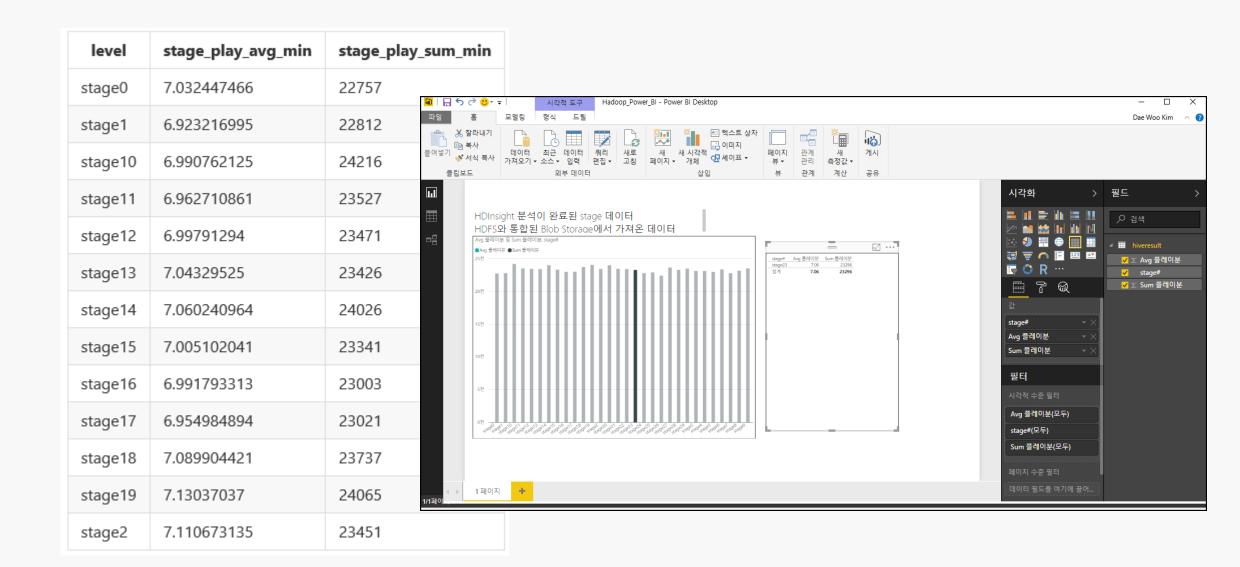




Demo









Demo how it works, w/ code Q & A



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Microsoft

