Azure Data Warehouse

Introduction and Demo

SQL Saturday #464, Melbourne

20th February 2016

PASS

Housekeeping

Mobile Phones

please set to "stun" during sessions

Evaluations
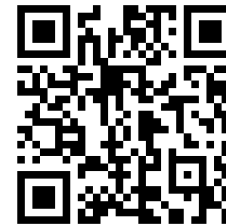
complete online to be in the draw for fantastic prizes

SESSIONS	EVENT
http://www.sqlsaturday.com/464/sessions/sessionevaluation.aspx	http://www.sqlsaturday.com/464/eventeval.aspx

Wifi Details

SSID: eduroam   Login: ext-sqlsat   Password: sqlsaturd4y

PASS SQL saturday

#464 | MELBOURNE 2016

Connect with the Community

@SQLDropbear

I attack SQL challenges by dropping onto them from above.

Event staff, volunteers and speakers are here to help and answer questions.

Scan the QR code on the speaker badges to connect and network with them.

Note of "Thank You" first..

Huge Thank You to Sponsors and Volunteers !

Back to Business : Agenda

- Is it about… ?

- Context

- Demo !

Terms.. Terms.. Terms..

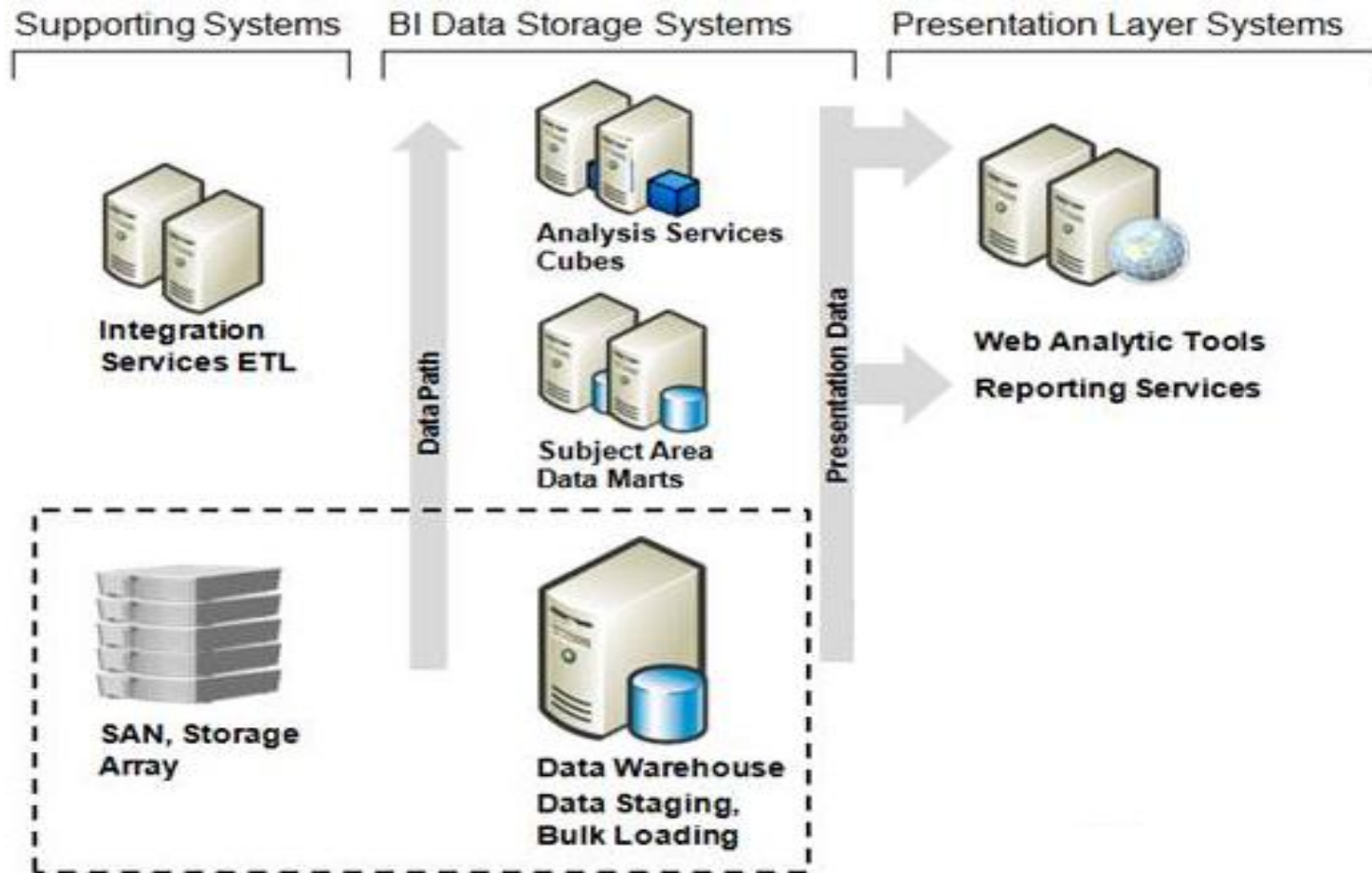- Azure.. Data.. Warehouse.. Another HUGE Cloud Picture
- Could be everything… ?

- Warehousing Basics
- Data Vault Basics
- Security, Scale
- Azure Basics
- Licensing

- No..

- Dev to Dev Talk
  - Some Context
  - Sample DV Model
  - Workflow
    - Traditional **&** Azure SQL DW
- Cmdlets, Code, Data !

- Minus, Reports 😐
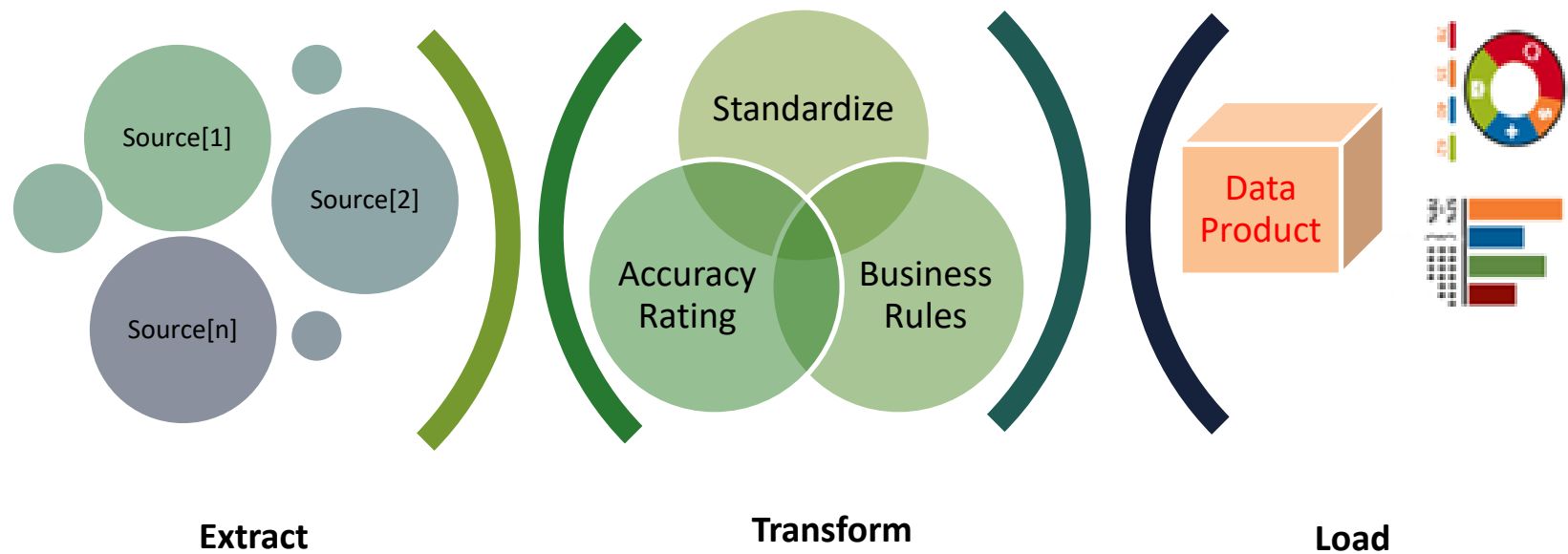
The Shameless Part..

- Vikas S. Rajput
  - MCSE – MSBI Stack
  - Data and Analytics Enthusiast
  - Senior Developer / Consultant at CGI
  - 11+yrs experience, started when 10TB DW was HUGE!

- Passionate about
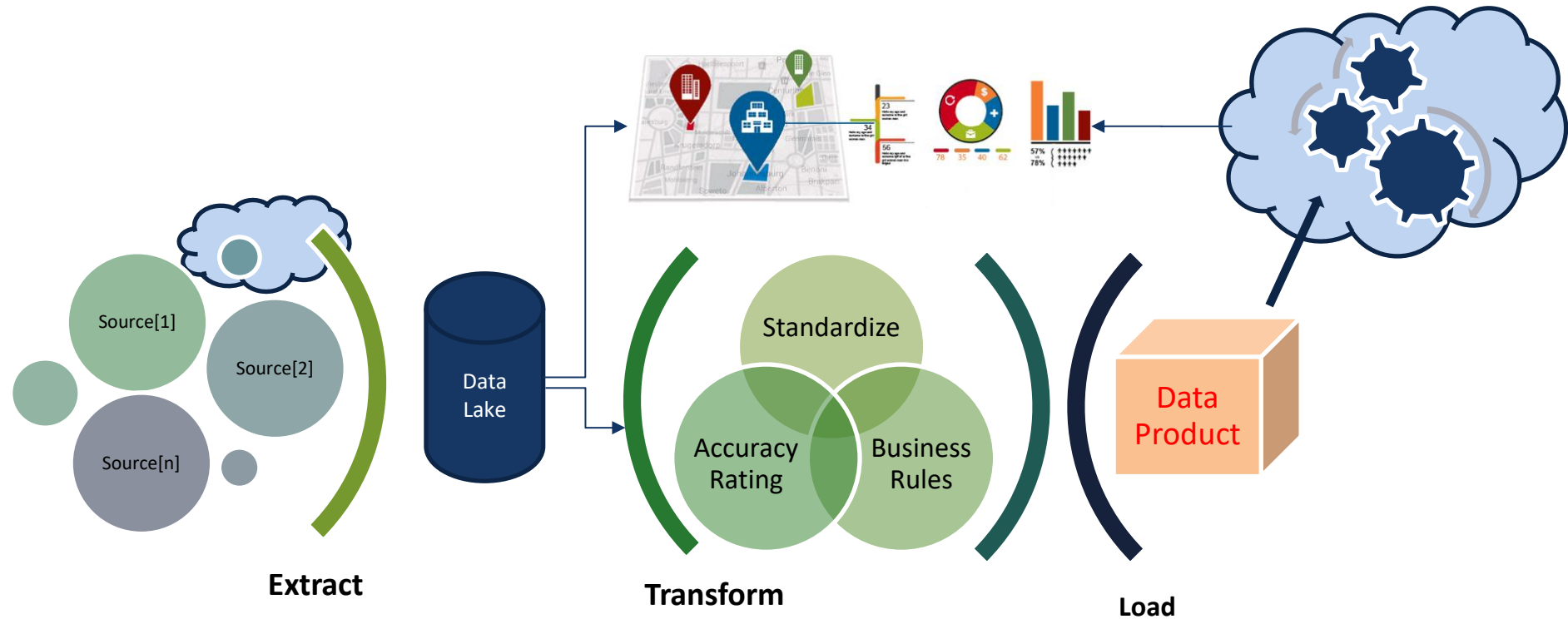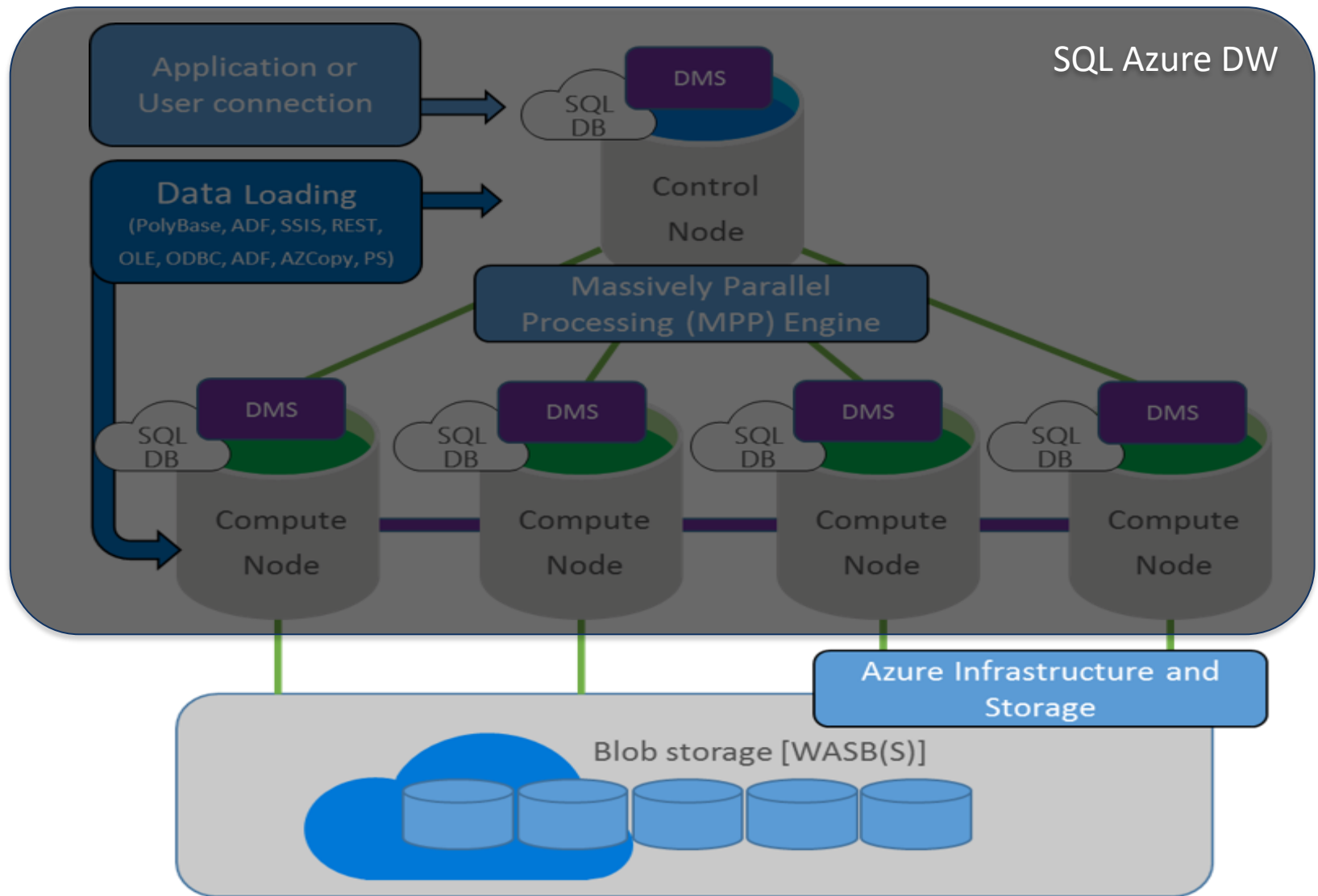 - Data, Insights, Visualization

Good Old Days !

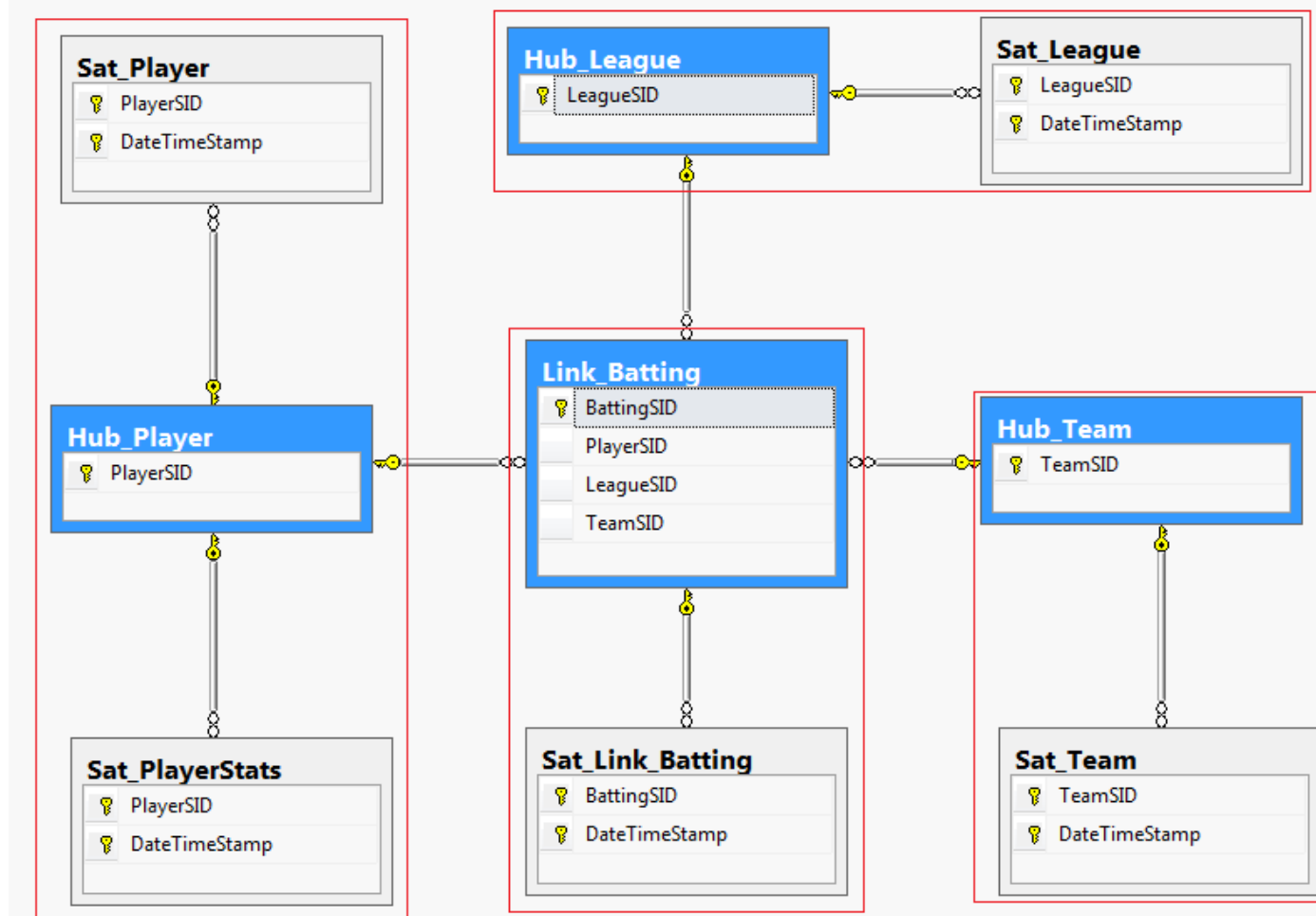# Data Warehouse – Typical

Extract

Transform

Load

Data Warehouse – Now

Source[1]

Source[2]

Source[n]

Data Lake

Standardize

Accuracy Rating

Business Rules

Data Product

Extract

Transform

Load

Azure SQL DW Architecture

Data Vault Model (Relational)

Demo – Traditional DW

- Data Warehouse
  - Storage
  - Servers
  - Licenses
  - Relational Objects, PKs, FKs, Identities

- ETL Solution
  - Flat File to TRN
    - Individual Clumsy mappings

  - TRN to STG
    - Truncate Load
  - STG to DW
    - Merge Statements

Demo – Azure SQL DW

- Data Warehouse
  - Storage
    - ~~Servers~~
    - ~~Licenses~~
    - ~~Relational Objects, PKs, FKs, Identities~~
  - But MPP works, fast !
    - DW Service
    - Key: Good design, and think Operations !

- ETL Solution
  - Flat File to TRN
    - ~~Individual Clumsy mappings~~
    - External Tables !
  - TRN to STG
    - Truncate Load
  - STG to DW
    - ~~Merge Statements~~
    - But it works...

Questions?

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Post-Event Survey

http://www.sqlsaturday.com/464/ eventeval.aspx