

MySQL and More for DataFlex – The Second Segment

Presenter: Marcia Booth

SYNERGY 2019
CRUISING TO NEW HORIZONS

DataFlex on MySQL

- This is what it looks like...
- Did you see any difference?
 - No. And you shouldn't.

MS SQL Server vs MySQL

Reputation: Dogs and Cats



- [Mr. Gingy](#)

Functionality and Performance

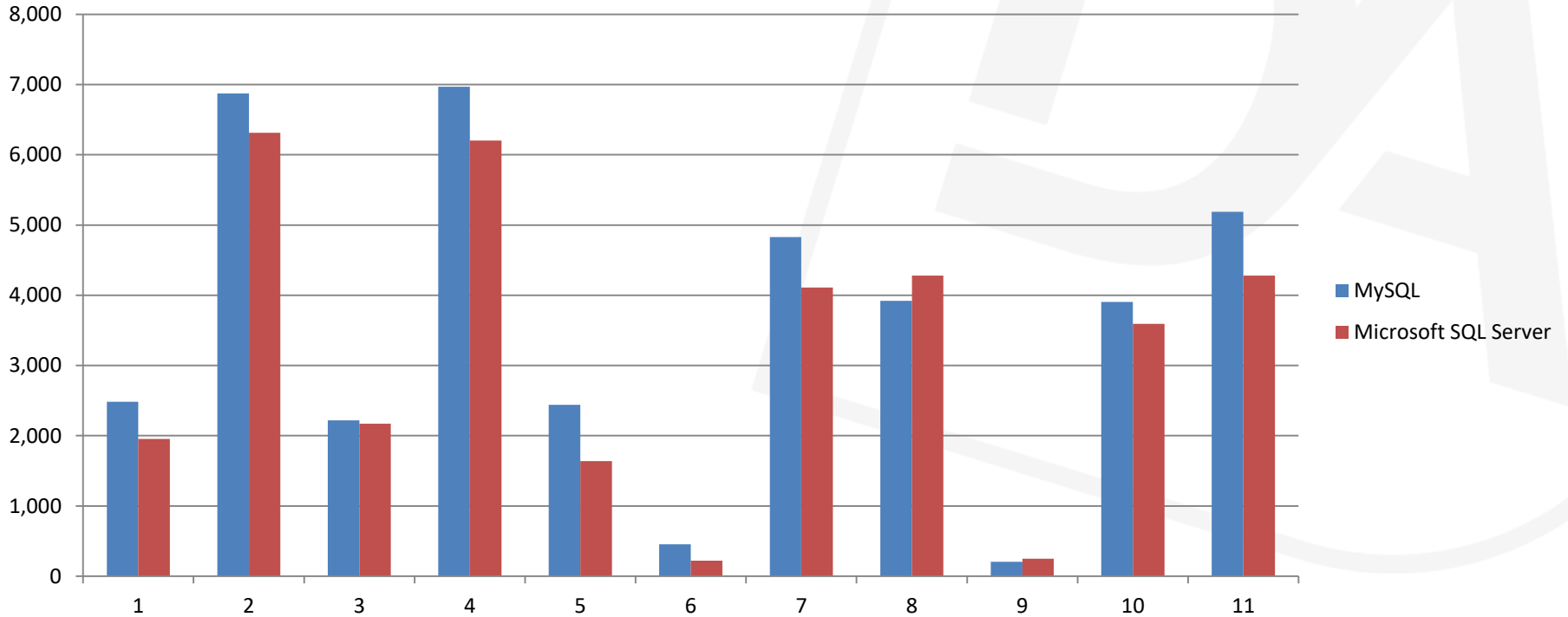


Preliminary Results

Functionality

- MySQL ODBC Connector 8.0.13
 - Aurora RDS ran fine
 - MariaDB and MySQL presented issues – eliminated in the ODBC Connectivity Kit 6.3.0.12
- MySQL ODBC Connector 8.0.15
 - No issues detected on any backend in combination with ODBC CK 6.3.0.12

Performance



Tests

	Test Description	MySQL	Microsoft SQL Server
Test1	Clear, Seed random Order_Number, Find EQ on Index.1, no relate	2,484	1,954
Test2	Clear, Seed random Order_Number, Find EQ on Index.1, relate Customer/Salesp	6,875	6,313
Test3	Clear, Seed random Order_Number, Find GT on Index.1, no relate	2,219	2,172
Test4	Clear, Seed random Order_Number, Find GT on Index.1, relate Customer/Salesp	6,969	6,203
Test5	Find Eq Customer by Index.1	2,438	1,640
Test6	Find Gt OrderHea by Index.1 loop, no relate	453	219
Test7	Find Gt OrderHea by Index.1 loop, relate Customer/Salesp	4,828	4,109
Test8	Find gt OrderHea by Index.1 loop with Relate OrderHea	3,922	4,281
Test9	Find Gt OrderHea by Index.2 loop, no relate	203	250
Test10	Find Gt OrderHea by Index.2 loop, relate Customer/Salesp	3,906	3,594
Test11	For_All OrderHea by Index.1	5,187	4,281
TOTAL		39,484	35,016

Environment

Processor	RAM	Number of Records	Operating System	DataFlex
Intel Xeon E5-2620 v4	4GB	1,000	Windows Server 2016 Standard	19.1.55

Database	Connectivity Kit	ODBC Driver
Microsoft SQL Server Express	MSSQLDRV 6.3.0.12	ODBC driver 17 for SQL Server
MySQL Community	ODBC_DRV 6.3.0.12	MySQL ODBC 8.0 ANSI Driver 8.0.13

How to get MySQL running on DataFlex

Pieces Needed

- Download from <https://www.mysql.com/downloads/>
 - MySQL Server
 - MySQL Workbench
 - MySQL Connector 32 bits
- DataFlex 19.1 installed
- ODBC Connectivity Kit 6.3.0.12

Demo

How to get MySQL running on DataFlex

Recap

- MySQL Workbench
 - Create connection to server
 - Create schema – remember to set collate
- MySQL Connector 32 bits
 - DSN using ANSI driver
- Connection ID in workspace
- Convert workspace data to MySQL

What We've Learned So Far

- Difference in terms
 - Schema x Database (conversion wizard will not use Schema)
- ODBC ANSI x Unicode driver
 - Pick ANSI
- Difference in behavior between driver versions MySQL 8.0.12 x 8.0.13
- Different driver versions (e.g. MySQL ODBC 8.0.13) may affect backends in different ways – not because it works on MySQL it will work on Aurora and vice-versa
- Available tools
 - User-friendly x rough interface (e.g. MS SQL and MariaDB)

On Our ToDo List

- Continue testing to better understand results on different systems and different backends
- Further test MariaDB and Aurora
- Test performance on a real-world application
- Continue to improve the DataFlex Connectivity Kit and Wizards as needs are identified

Thank You...

Sometimes you need to look
at life from a different
perspective

