

Abstract

- Customers want to modernize their CA IDMS network database applications to take advantage of modern skill sets and technologies.
- The vision of CA IDMS 19.0 is to improve CA IDMS modernization using open source or 3rd party tools for better flexibility and improved productivity.
- This session discusses new CA IDMS SQL features that enable IDMS network database access using standard SQL without major limitations.

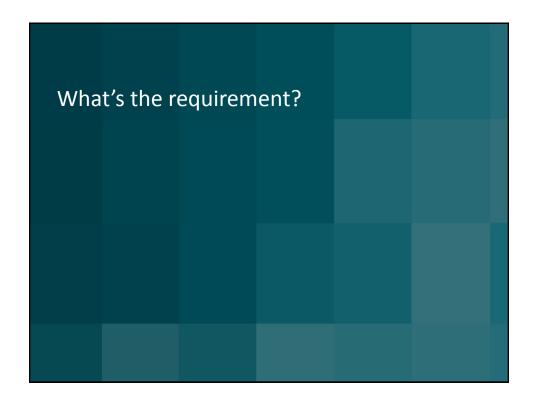
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Ag	enda	
	WHAT'S THE REQUIREMENT?	
	CURRENT LIMITATIONS WITH CA IDMS SQL ACCESS TO NETWORK DBS	
	VIRTUAL FOREIGN KEYS	
	EXAMPLES	
	Q&A	
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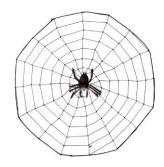


CA IDMS 19.0 Application Modernization focus

Enable modern app dev with the CA IDMS database platform



CA IDMS SQL enhancements to enable Java, modern tools



Enable Web services integration with CA IDMS applications



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CA IDMS™ SQL Project

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CA IDMS™ SQL Team photo



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CA IDMS 19.0 Enhanced SQL Goals

- Allow use of open source or 3rd party tools to enable increased flexibility and improved productivity with current skill sets
- Map CA IDMS network records and sets directly to tables and objects
- Access CA IDMS network data using standard SQL without limitations
- Use standard SQL to access (SELECT) and update (INSERT/UPDATE) any record in the CA IDMS network database
- Enable modern languages and tools such as SQL, Java,
 Hibernate, .NET and C#

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Michelle, the modern application developer

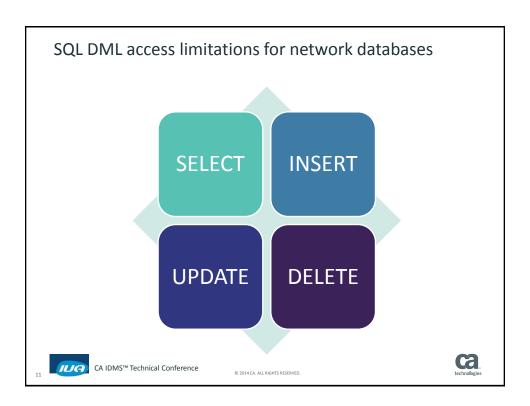
- Standard languages
- Common tools
- Code generation
- Flexibility
- Productivity

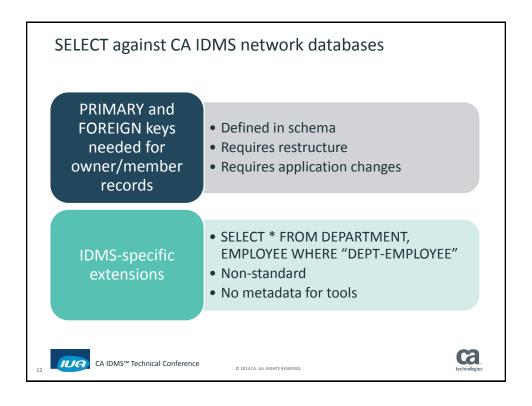
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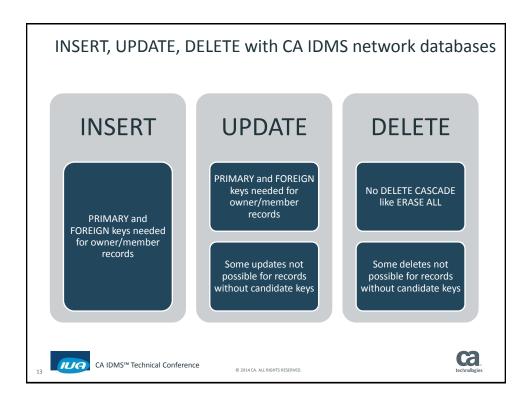


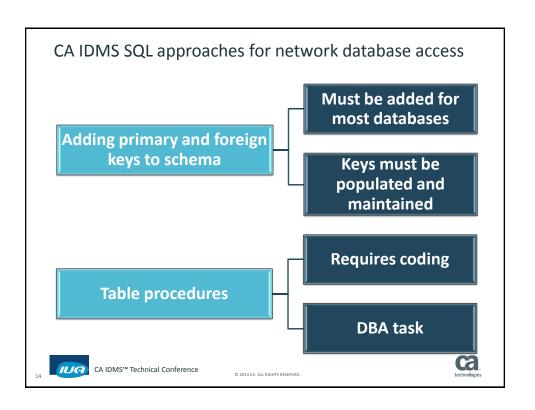






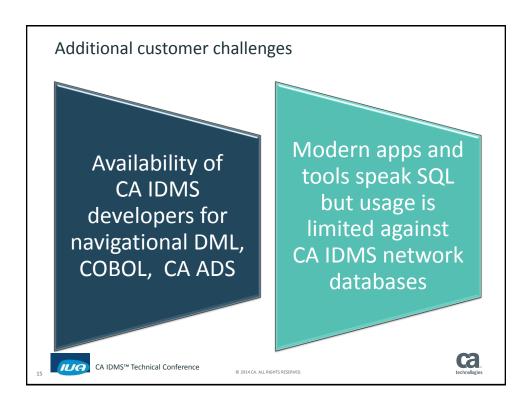


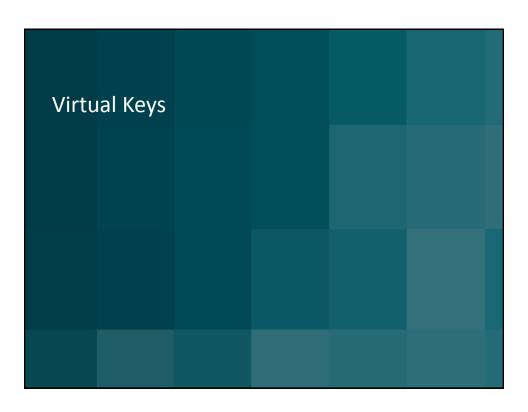




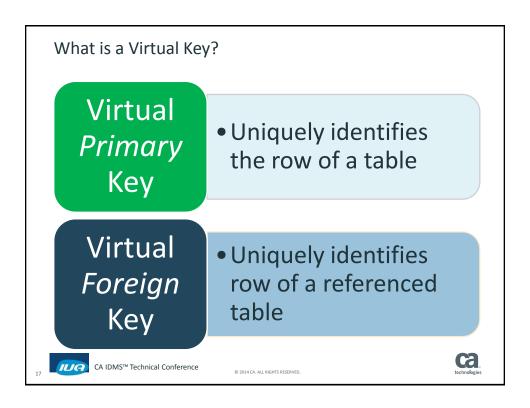


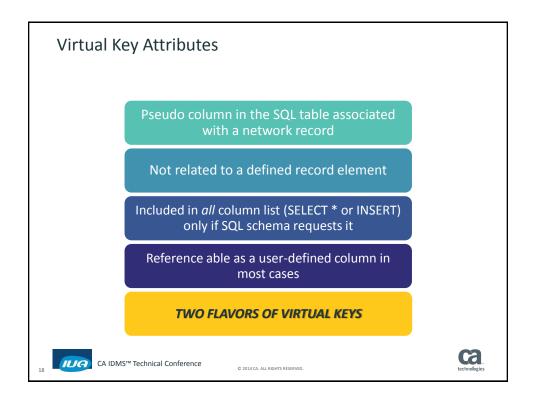














1) User Defined Virtual Keys

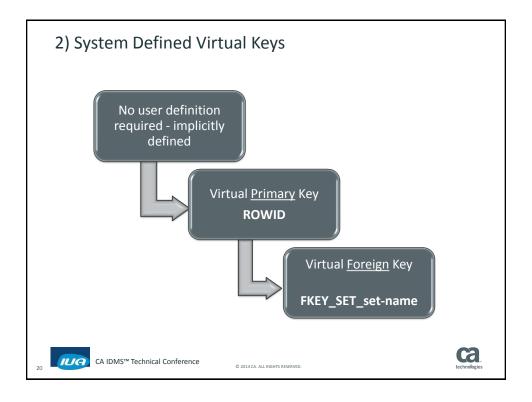
- Definition similar to real primary/foreign key definition
- Seemingly simple and natural to use in SQL DML
- BUT there are issues...

They require network schema updates What if record has no candidate key? Unsorted sets or sorted sets with duplicates allowed Non-mandatory or optional sets

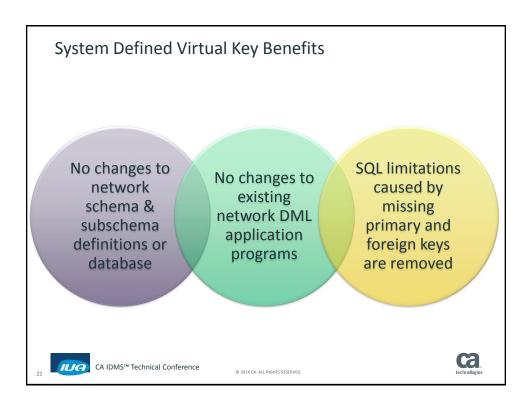
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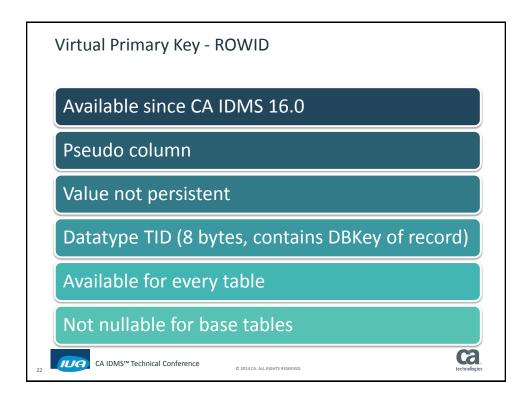
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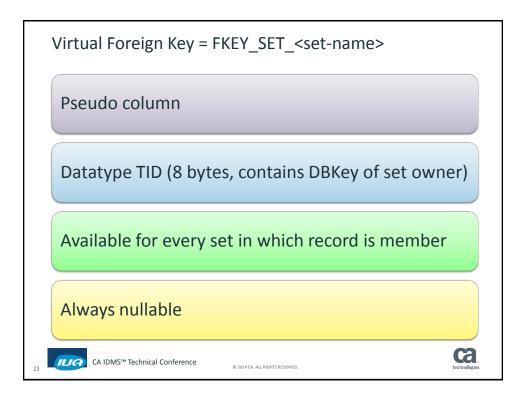












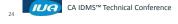




- Address issues with user defined virtual keys
- No database changes needed
- No network definition changes needed
- Flexible navigation, same as network DML



Easy and non-disruptive adoption



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Experts' views on primary keys

A couple of interesting articles on natural versus surrogate keys:

http://www.techrepublic.com/article/the-great-primary-key-debate/

> search "the great primary key debate")

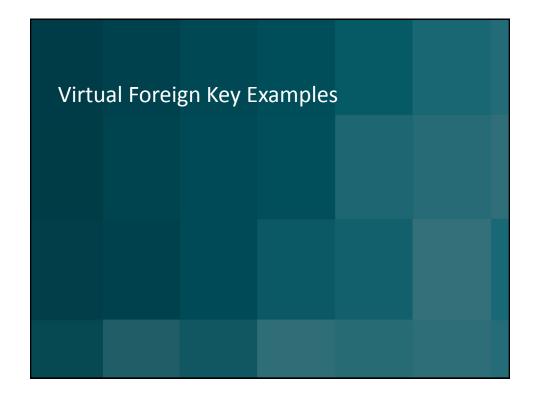
https://www.simple-talk.com/sql/learn-sql-server/primary-key-primer-for-sql-server/

search "primary key primer for sql server")

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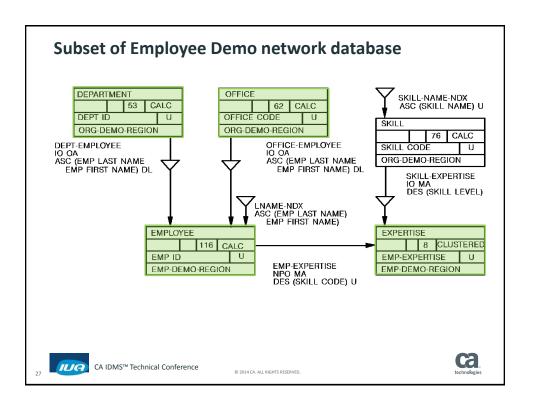
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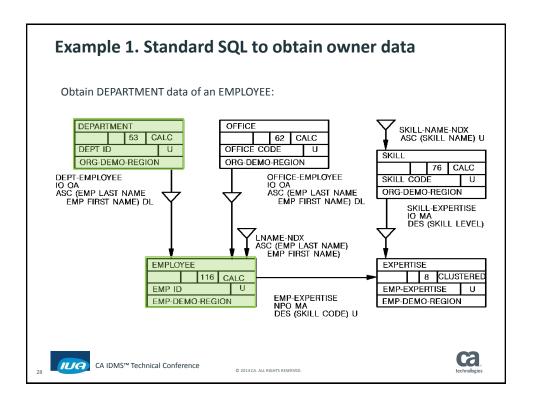




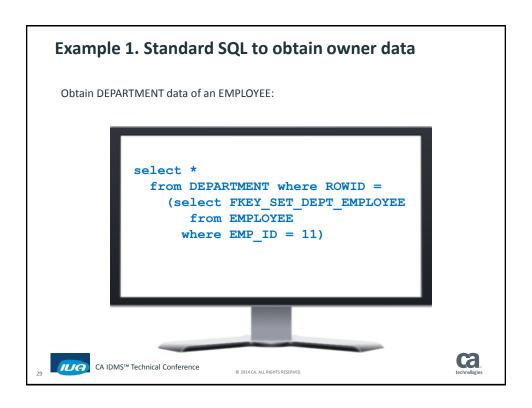


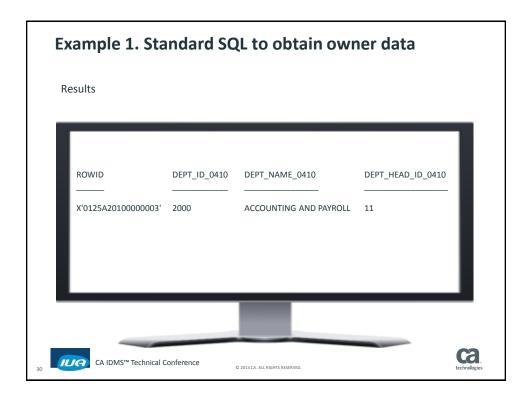




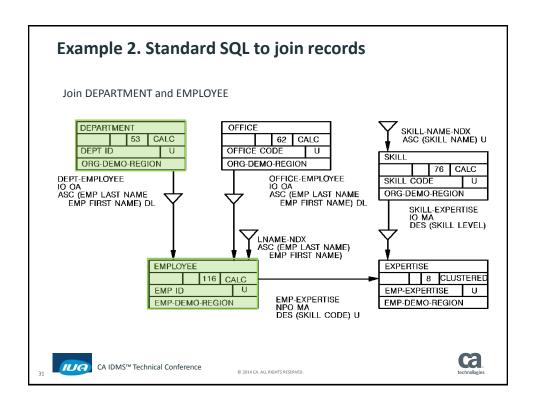


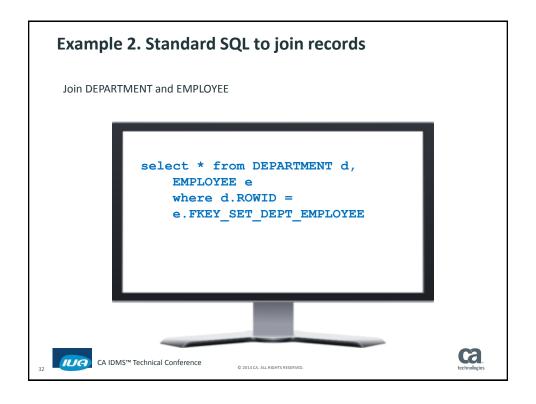




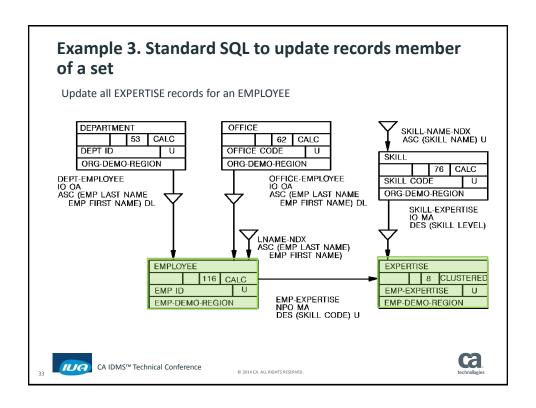


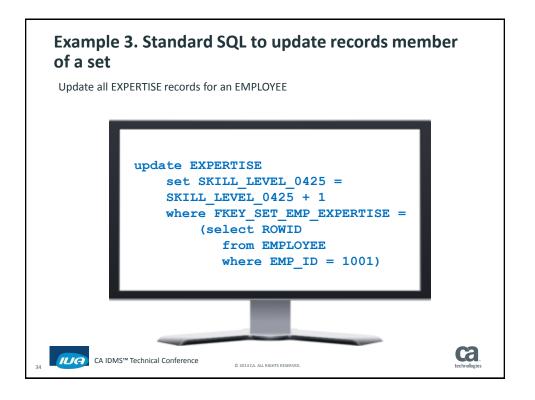




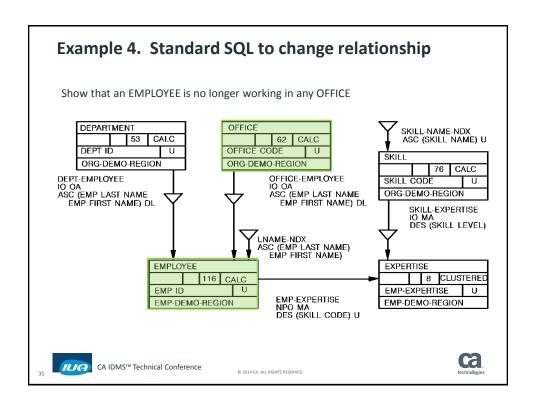


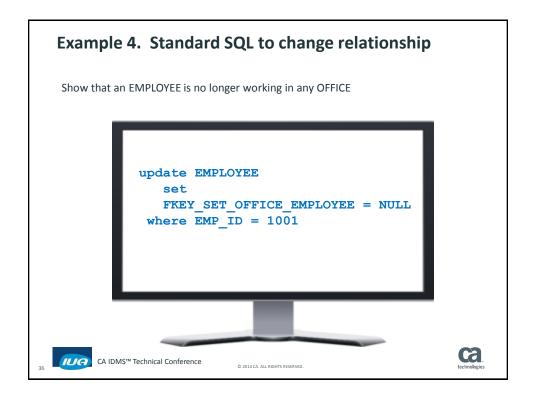




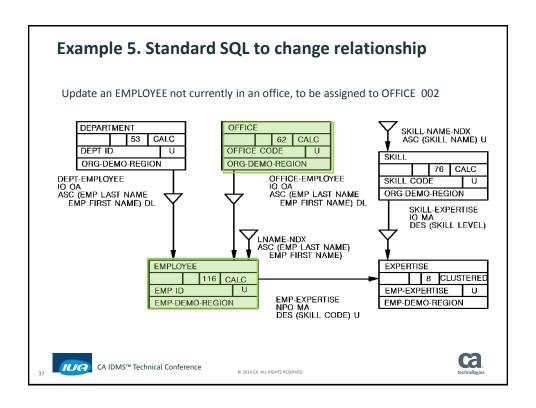


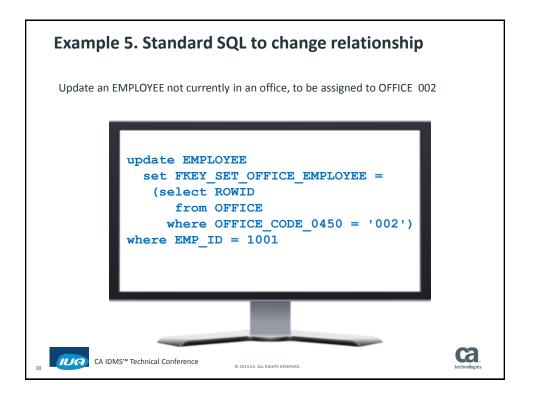






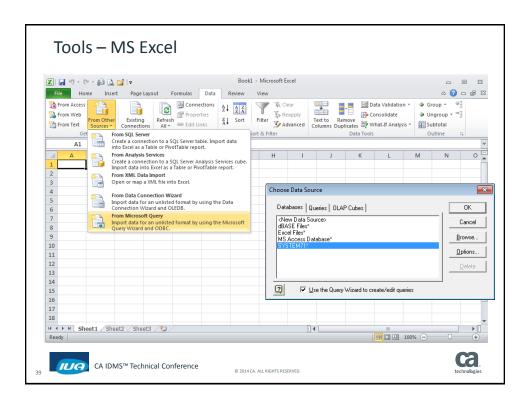


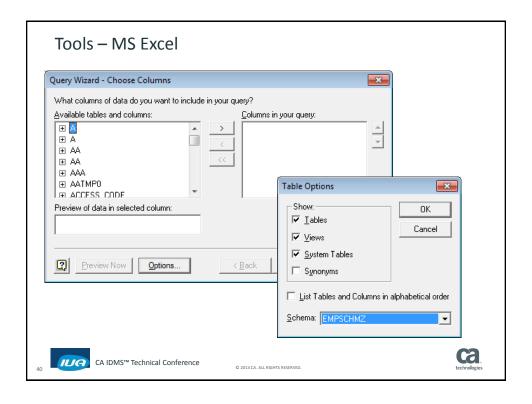






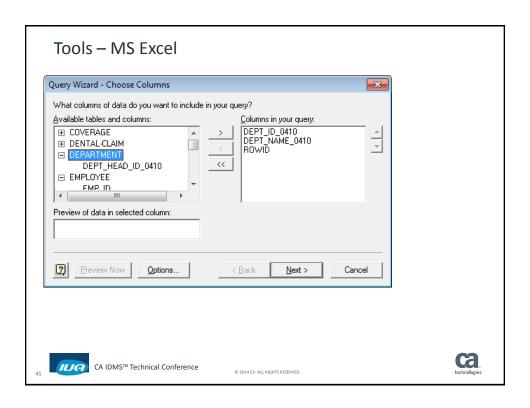


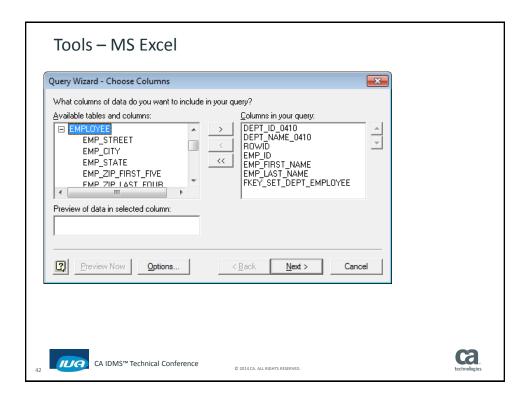




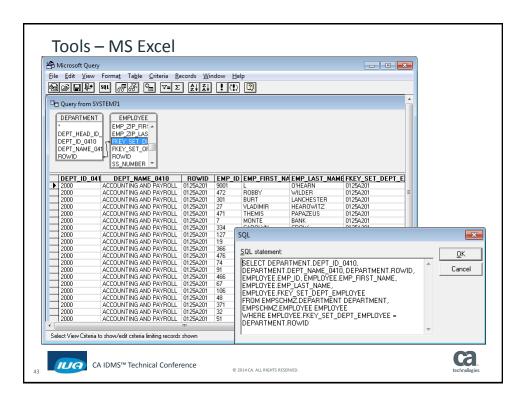


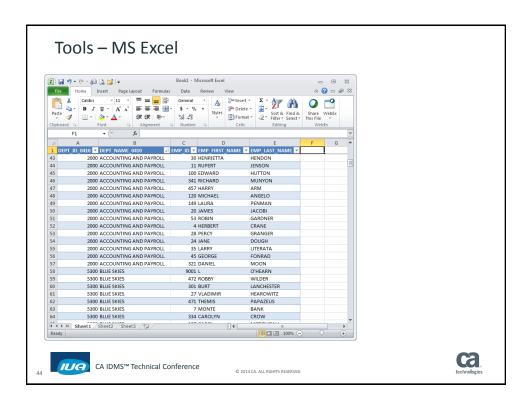




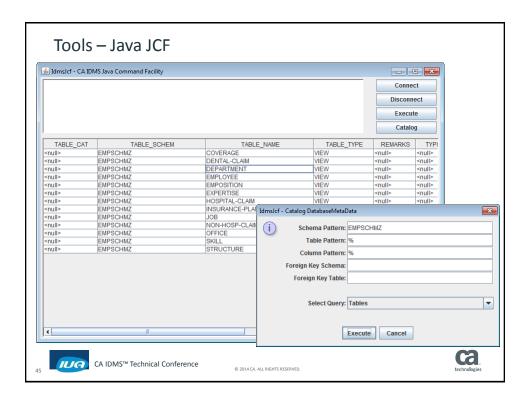


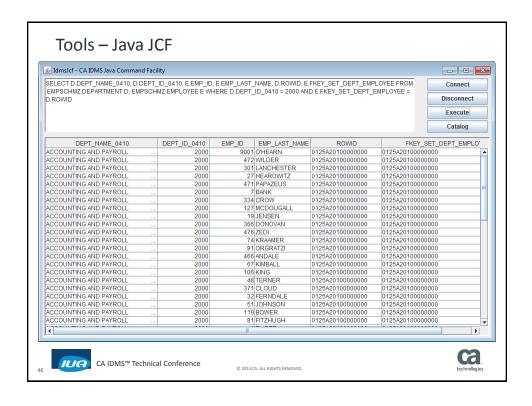




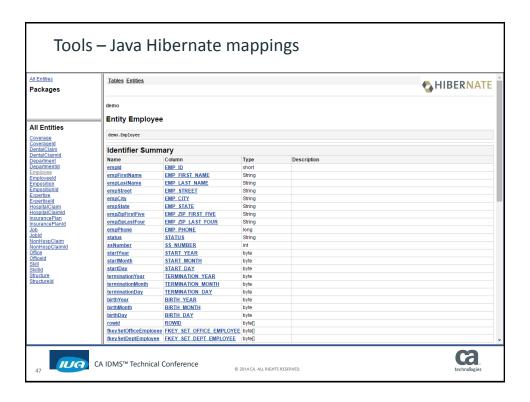












Want to see examples with your database?

- Join the CA IDMS 19.0 Customer Validation program
 - See <u>validate.ca.com</u>
- Send us your samples ...
 - A network record
 - Diagram
 - Record description
 - Sets (as a member)











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