Cognos Business Analytics and CA IDMS™ Integration

Miami-Dade County

Cognos Business Analytics and CA IDMS Integration

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- Introductions
  - Rosario Fiallos, Middleware Senior Administrator, Cognos Support
  - Alex Fuentes, Senior Database Administrator, IDMS Support
  - Brian Whitworth, Senior Systems Analyst/Programmer
  - Sue Camner, Database Manager

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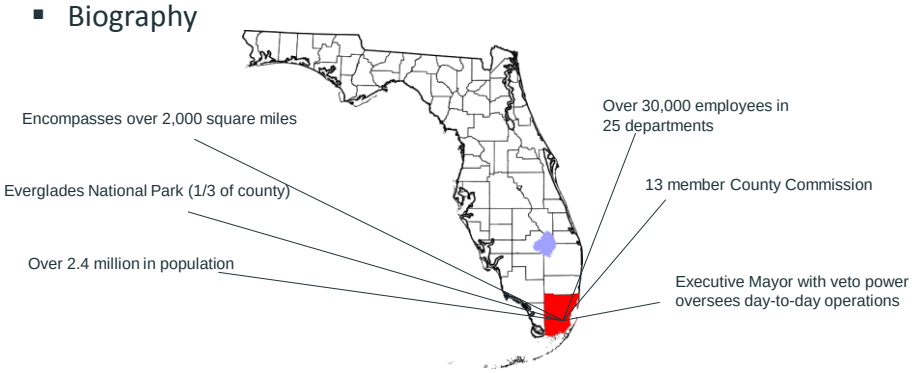
- Biography



miamidade.gov

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- Information Technology Department
  - Central technology provider for Miami Dade County government
  - Over 700 employees
- Provides services in areas of
  - Application Development
  - Enterprise Solutions
  - Data Center
  - Field Services
  - Radio
  - Security
  - Network
  - Cloud Services

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Cognos Business Analytics and CA IDMS Integration Miami-Dade County

- Abstract
  - Miami-Dade County led the way as a CA IDMS validation customer, successfully extracting information from a CA IDMS network database using IBM Cognos Business Analytics.
  - Miami-Dade County stores the majority of their critical data, such as Criminal Justice, Payroll, Traffic and Building information in CA IDMS mainframe databases and traditionally extracts this data using CA IDMS tools (CA ADS and IDMS/COBOL).
  - Through the collaboration of CA, IBM and Miami-Dade County, a JDBC driver was integrated to enable extraction of this data directly into Business Analytics without the need for exporting the data to a relational data warehouse structure.

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- The Challenge
  - IDMS limitation
    - No direct access to IDMS from distributed databases
    - Need a distributed database for the IDMS data
    - Multiple steps required to use COGNOS on IDMS data
      - Data extraction
      - File transfer
      - Data load
    - Multiple points of failure
  - Multiple data warehouses required
  - More than 50 production IDMS databases

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- Problems Encountered
  - Identifying driver
  - Accessing data
  - Issues with formatting
  - Issues with filtering
  - Runaway process
- Solution Description
  - IDMS 19.0 upgrade
  - COGNOS BI 10.2.2 – New installation
    - New installation, configuration, testing and deployment of Linux and Windows servers all environments; development, training, production, sandbox

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- Solution Description (continued)
  - Establish connection between COGNOS and IDMS with JDBC driver
  - Access to multiple records with single IDMS table OK; Not multiple table relations
  - SQL schema layer on a non-SQL DB – creating an IDMS relational layer with views to allow connection to access all tables defined within the view
  - Federate the IDMS data to Oracle by joining on primary keys
  - Solution Implementation tasks

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- Infrastructure/Technology
  - System z Servers
  - COGNOS databases
  - CA IDMS databases on z/OS
  - JDBC driver

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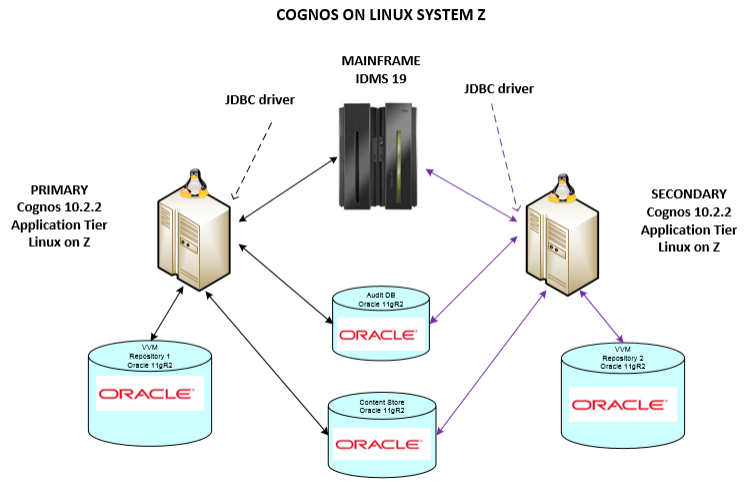

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- Results/Success
  - Reduced processing power
  - Reduced points of failure
  - Reduced oncall support responsibilities
  - Less dependency on other technologies
  - Less risk of data loss and corruption
  - No duplication of data
  - Real time access to IDMS data
  - Better security for sensitive/restricted data
  - Direct access via COGNOS BI to all production IDMS databases

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- Improvement Examples
  - Payroll data
  - Building and Zoning
  - Inmate Data Warehouse

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Questions and Answers

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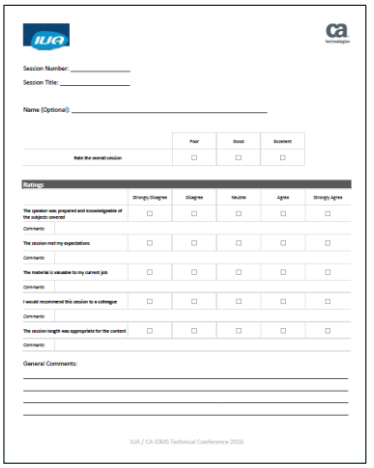

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	Poor	Good	Excellent
Rate the overall session	☐	☐	☐

Ratings

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
The speaker was prepared and knowledgeable of the subjects covered	☐	☐	☐	☐	☐
Comments:					
The session met my expectations	☐	☐	☐	☐	☐
Comments:					
The material is valuable to my current job	☐	☐	☐	☐	☐
Comments:					
I would recommend this session to a colleague	☐	☐	☐	☐	☐
Comments:					
The session length was appropriate for the content	☐	☐	☐	☐	☐
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IUA / CA IDMS Technical Conference 2016

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