



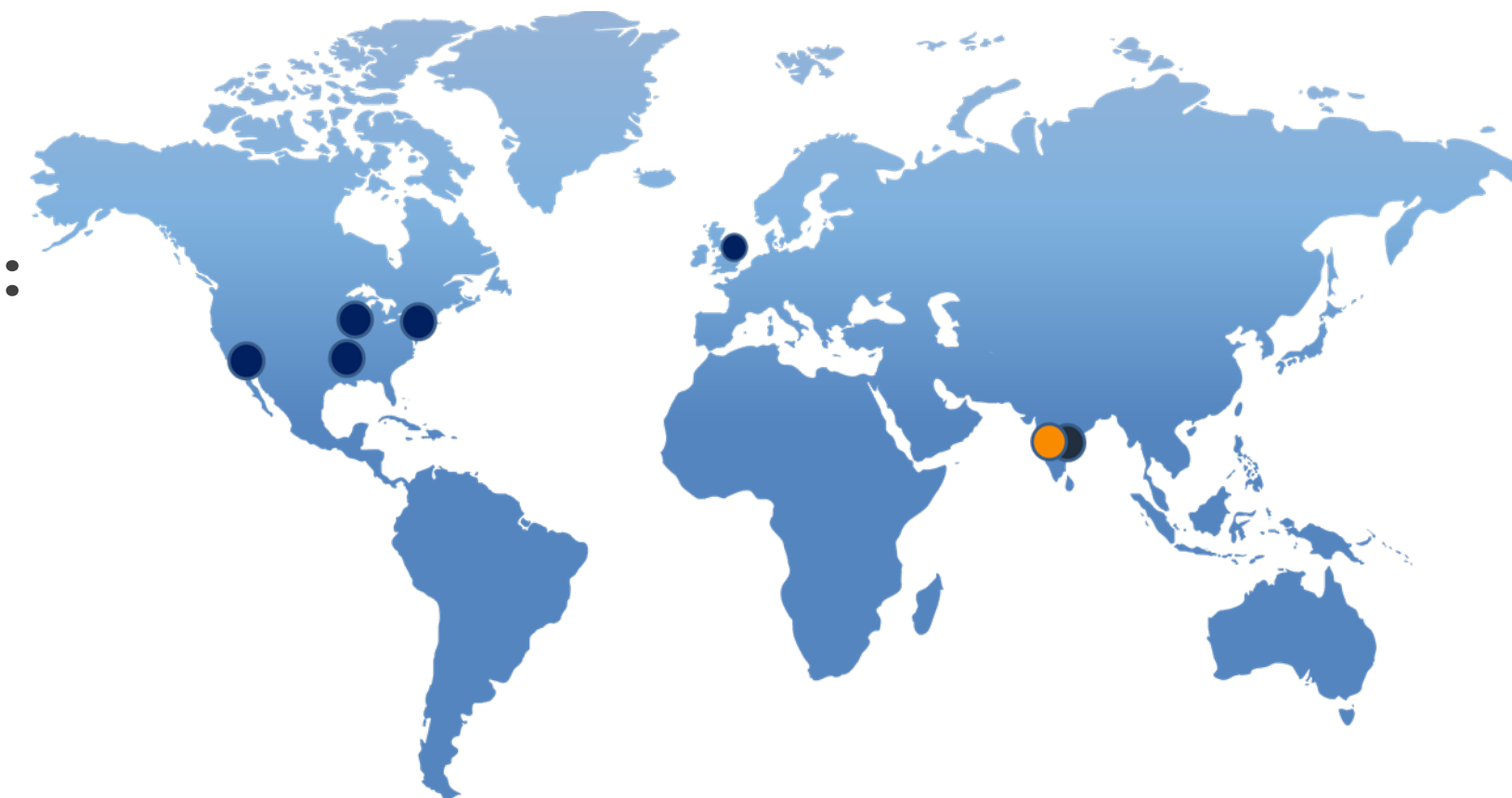
UNICO SOLUTION

Snowflake City Tour 2017

Thomas Bennett – VP of Architecture

Overview

- **Data Management Expertise In:**
 - Data Warehouse
 - Data Integration
 - MDM
 - Analytics
 - Cloud Solutions
 - Data Lifecycle
- **In partnership with key Data Management solutions companies**
- **With deep expertise in architecting, planning, and delivering Data Management advisory and implementation services**
- **With proven experience in building API connectors for Cloud Data Integration**
- **Have Managed Services experience, including business process solutions and customer on-boarding**



North America

Berkeley, CA

2120 University Ave, Berkeley, CA 94704

New York

54 W 40th St, New York, NY 10018

Chicago, IL

332 S Michigan Ave, Chicago, IL 60604

Austin, TX

600 Congress Ave, Austin, TX 78701

Europe

London, UK

Asia

Chennai, India

Hyderabad, India

- **Founded in 2009**
- **Data Management Focus**
- **50+ Data Management Consultants**
- **Cloud Implementation Experts**
- **4 North America Locations**
- **2 Offshore Locations in India**
- **Offshore delivery center in India**



1

- Gartner MQ Leader 4th Straight Year

- Cloud RDBMS

2

- Universal Connectivity

- Elastic (Scalable at Query Level)

3

- 600B Transactions a Month (99.9% uptime)

- Separate Compute from Storage (3x-5x compression)

4

- Semi-Structure / Unstructured Data

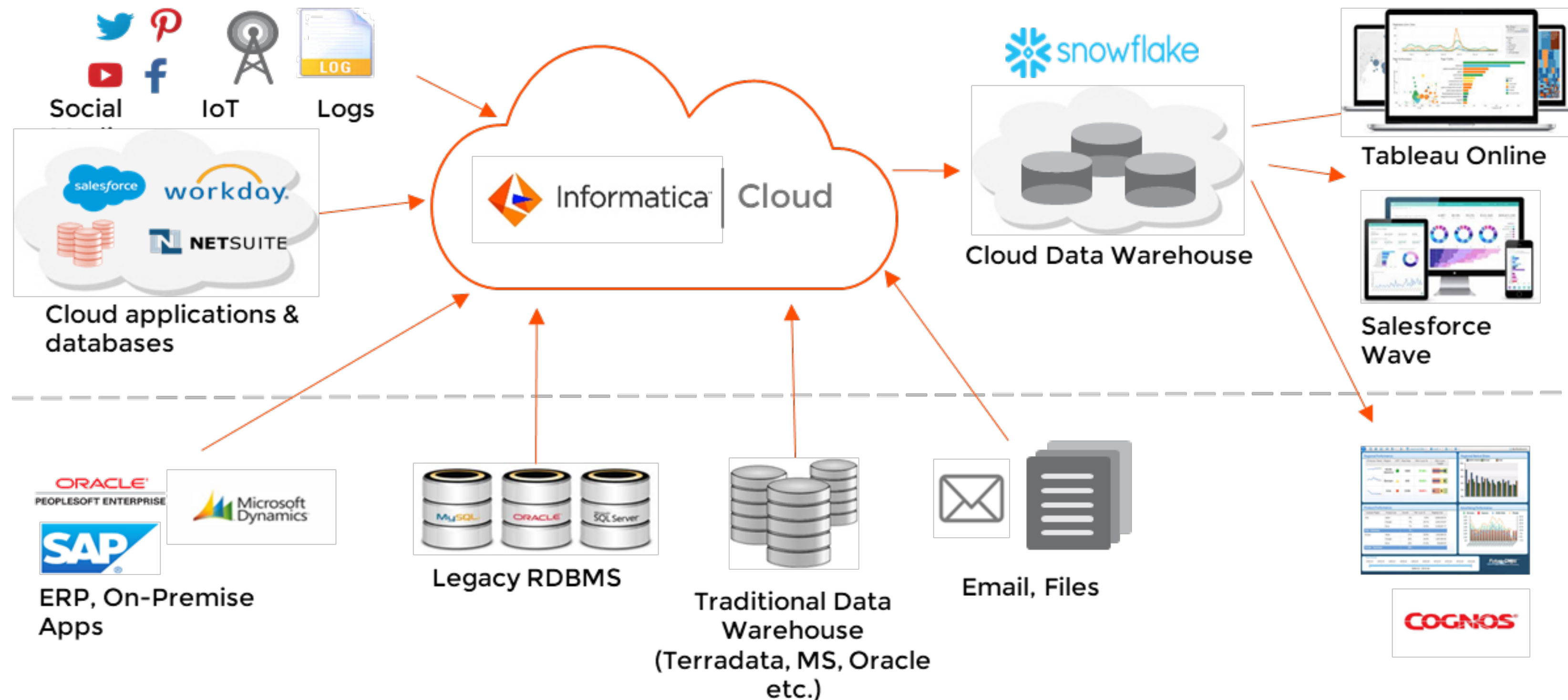
- Natively Supports Semi-Structured Data
 - JSON
 - AVRO

Informatica Connector - Architecture

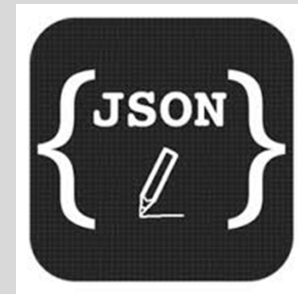
Snowflake Connector (Informatica):

- Snowflake-JDBC Driver Based
- JDBC SSL Support
- Bulk-Insert
- Dynamically Create Targets
- Supports Partitioning
- Parametrize
- Secure Agent
 - Informatica Hosted
 - On-Premise

The Informatica Cloud Snowflake v1 Connector built by Unico Solution



Complexities of Semi-Structured Data



- No Fixed Schema (Self Describing)
- Format can change Dynamically
 - Cannot predict every possible element
- Custom Processing (Libraries)
 - Time Consuming
 - Error Prone



- Industry Standard
- Difficult to Parse
- Complex validation checks
- Requires specialized libraries or tools

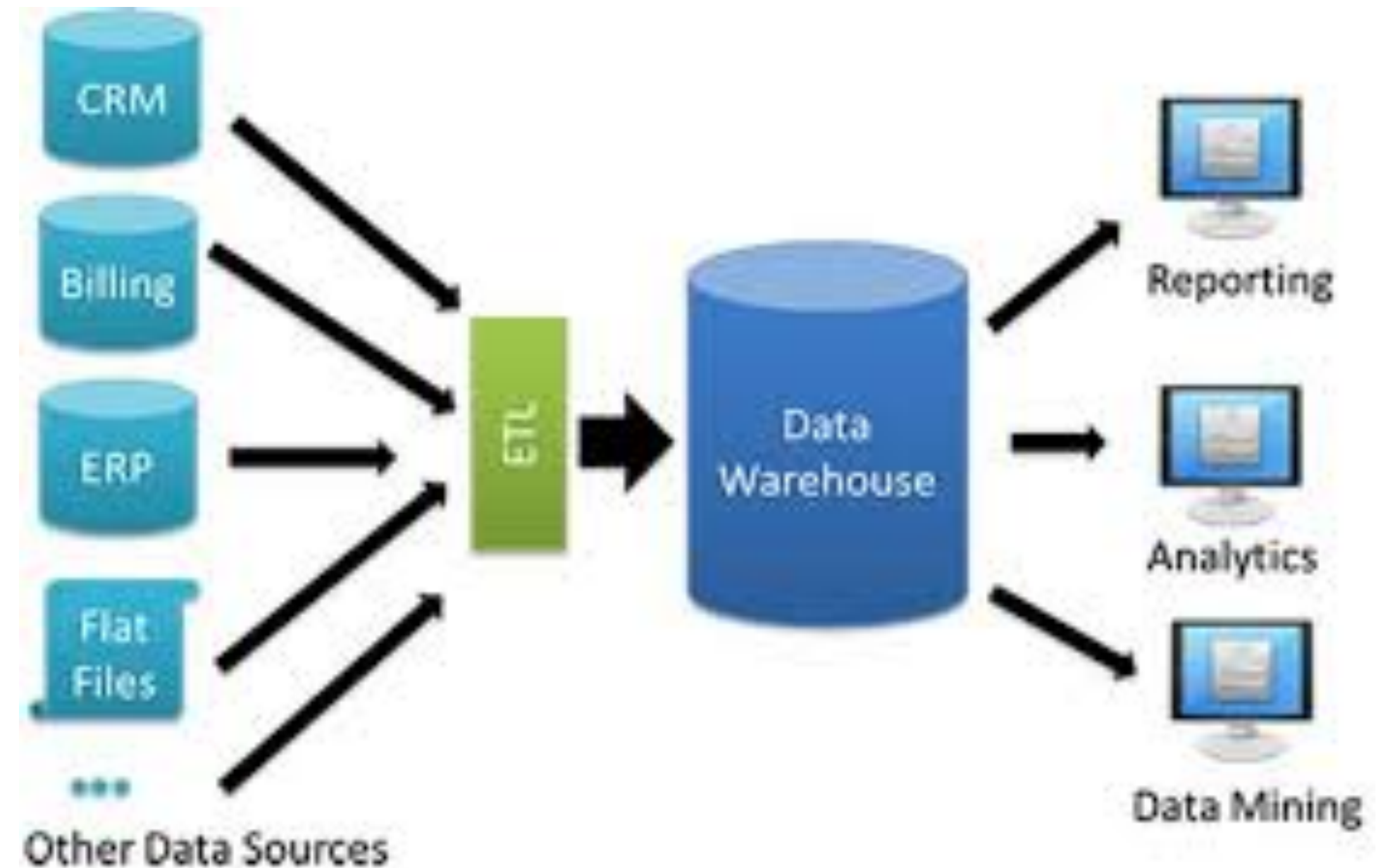
Loading Semi-Structured Data is a Struggle!



Problems of Traditional Data Warehouse

Traditional Data Warehouse:

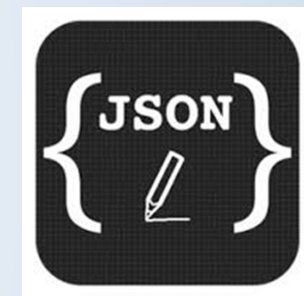
- Fixed Compute Power
- Fixed Storage
- Limited Infrastructure
- Growing Data
 - Missed SLA
- Demand from various Business Units
- Slow to Scale
- Upgrades
- Complex Administration



Loading Data - Resource Contention is a struggle!



Solution - Semi-Structured Data Simplified!



- Informatica
 - Hierarchy Parser / Builder Transformations
 - Data Transformation Engine (B2B DT)
- Snowflake
 - Variant Data Type
 - Creates Schema on Ingestion
 - Ability to Query JSON
 - **JSON:** {"name":"Steve Bennett","age": 55}
 - **Query:** select customer:fname::varchar as fname, customer:lname::varchar as lname, customer:age::int as age from Customers



EDI:

- Informatica
 - Cloud B2B Gateway
 - Data Transformation Engine (B2B DT)

Loading Semi-Structured Data is not a Struggle!

Loading Data - Resource Contention Solved!



- Informatica Cloud
 - Light Weight Secure Agent
 - Deploy
 - On-Premise
 - AWS | AZURE | Google
 - Clustered Agents
 - Hosted Agent (No Infrastructure)



- Snowflake
 - Easy Administration
 - Dynamic Scalability
 - Granular at Query
 - Virtual Warehouse
 - Accommodate Business Unit
 - Multi-Clustered Warehouses
 - Increase performance in parallel
 - Unlimited Storage
 - Unlimited Compute

Q & A

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GET IN TOUCH

🏠 2120 University Ave, Berkeley, CA
94704, United States.

☎ +1 (917) 965-5630

✉ info@unicosolution.com

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