

# Oracle Database Security and Audit

Beyond Checklists

## Learning objectives

- Understand data flow through an Oracle database instance

## Why is data flow important?

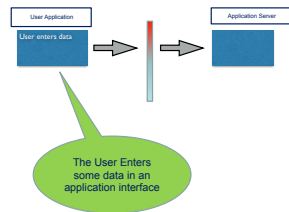
- Data is not static within an Oracle database instance
- The data dictionary is composed of
  - Fixed tables
  - Dynamic views

**These structures expose data at all points throughout the system**

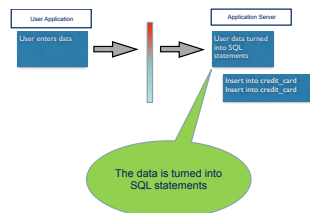
# Data flow in Oracle database

- Where is the data?  
In a table - right?

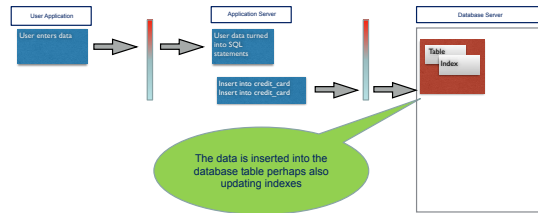
## Data flow



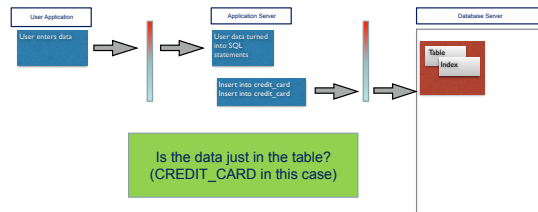
## Data flow



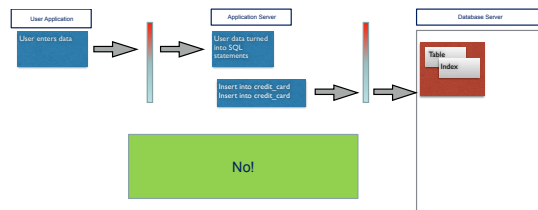
## Data flow



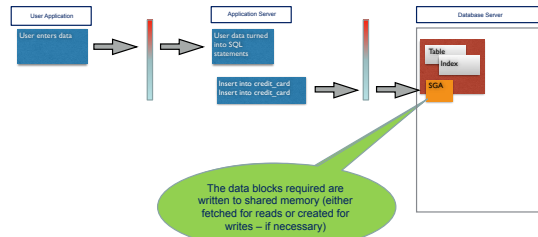
## Data flow



## Data flow

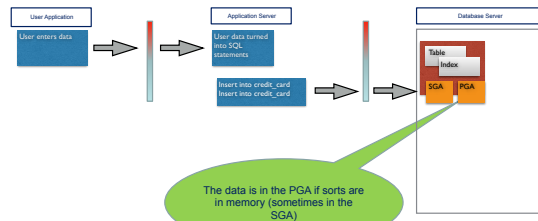


## Data flow



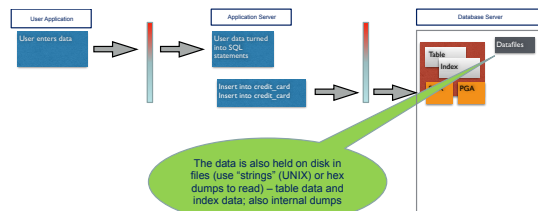
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## Data flow



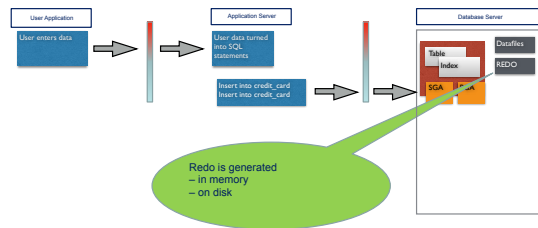
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## Data flow

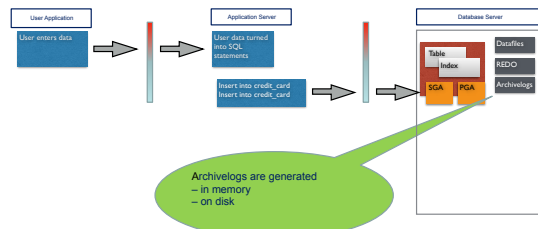


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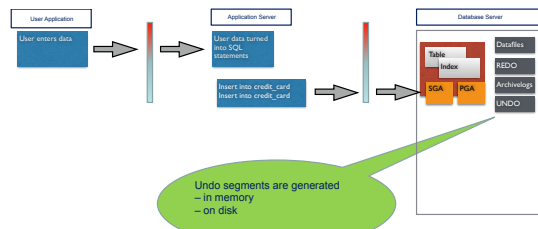
## Data flow



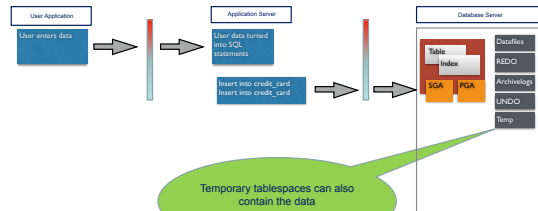
## Data flow



## Data flow

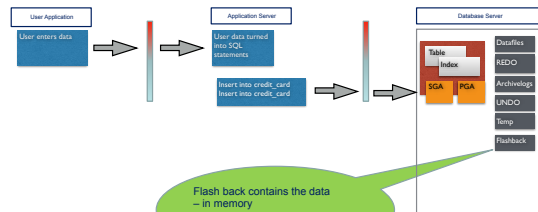


## Data flow



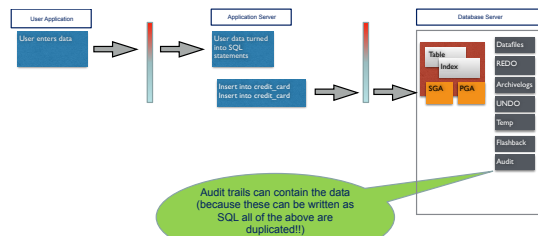
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## Data flow



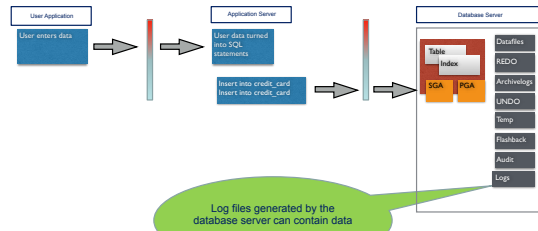
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## Data flow



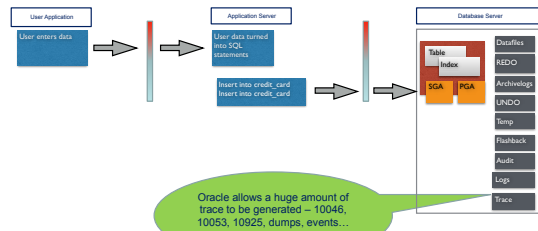
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## Data flow



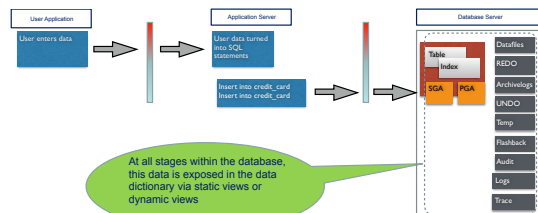
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## Data flow



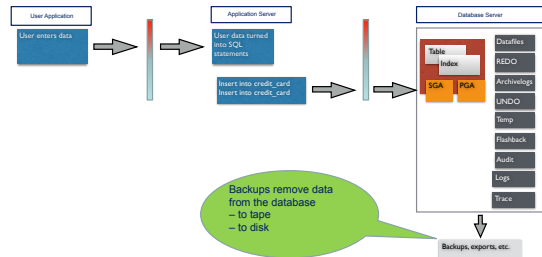
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## Data flow



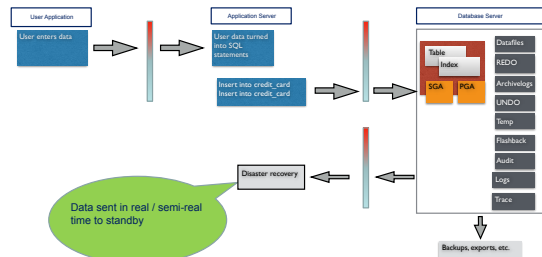
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## Data flow



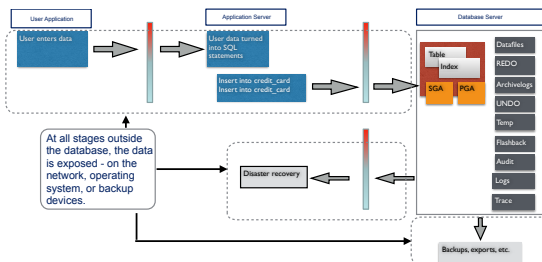
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## Data flow



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# Q&A