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Data Validation Automation

Reducing cost by building a data validation solution using intermediate key tables in Power Bi with live connection
- Faizal Ahmed

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Challenges faced by data migration team

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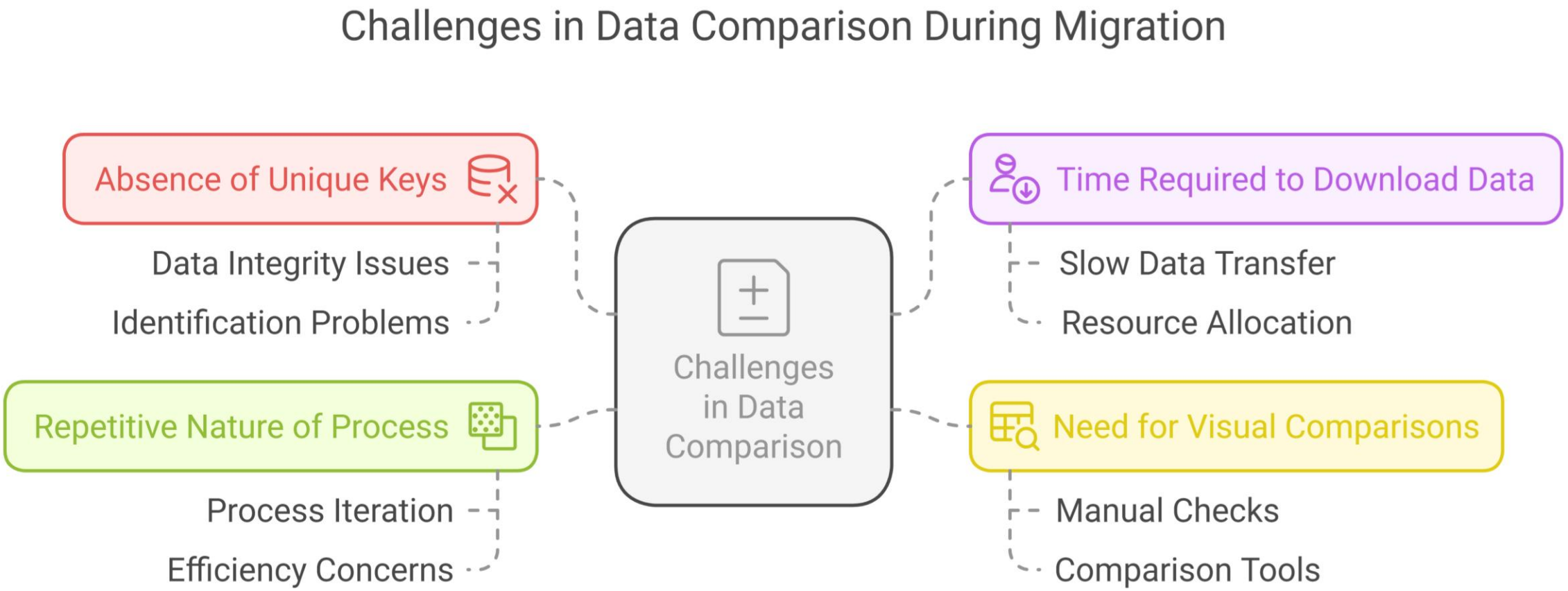
Current challenge



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Current Process

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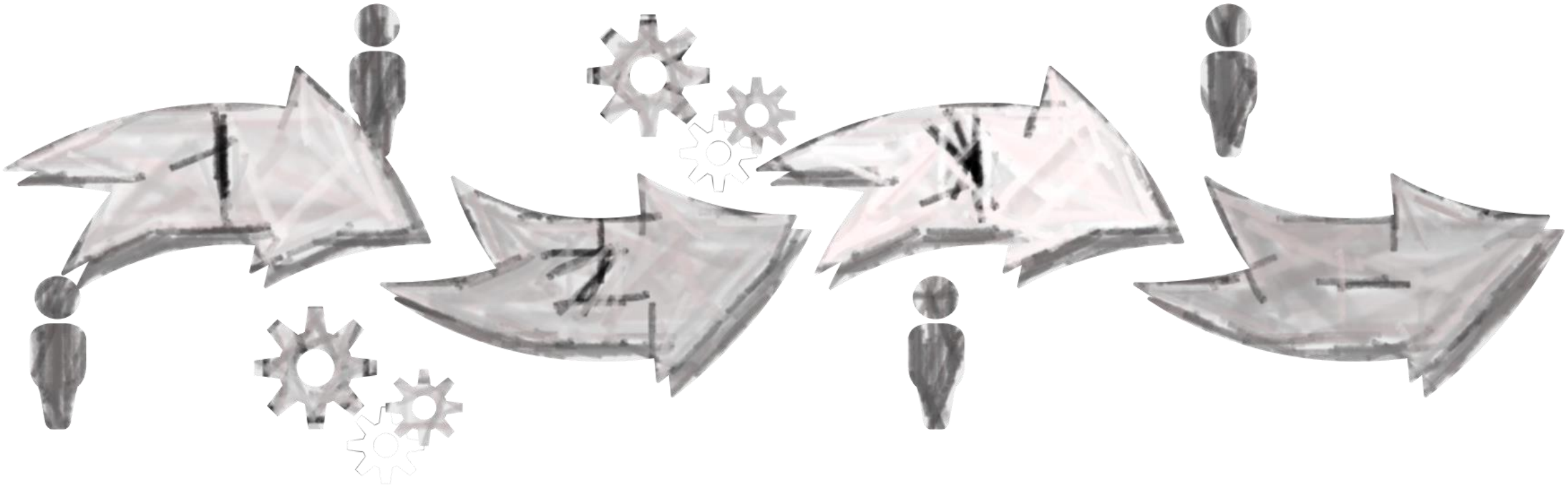

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Current Data Modelling

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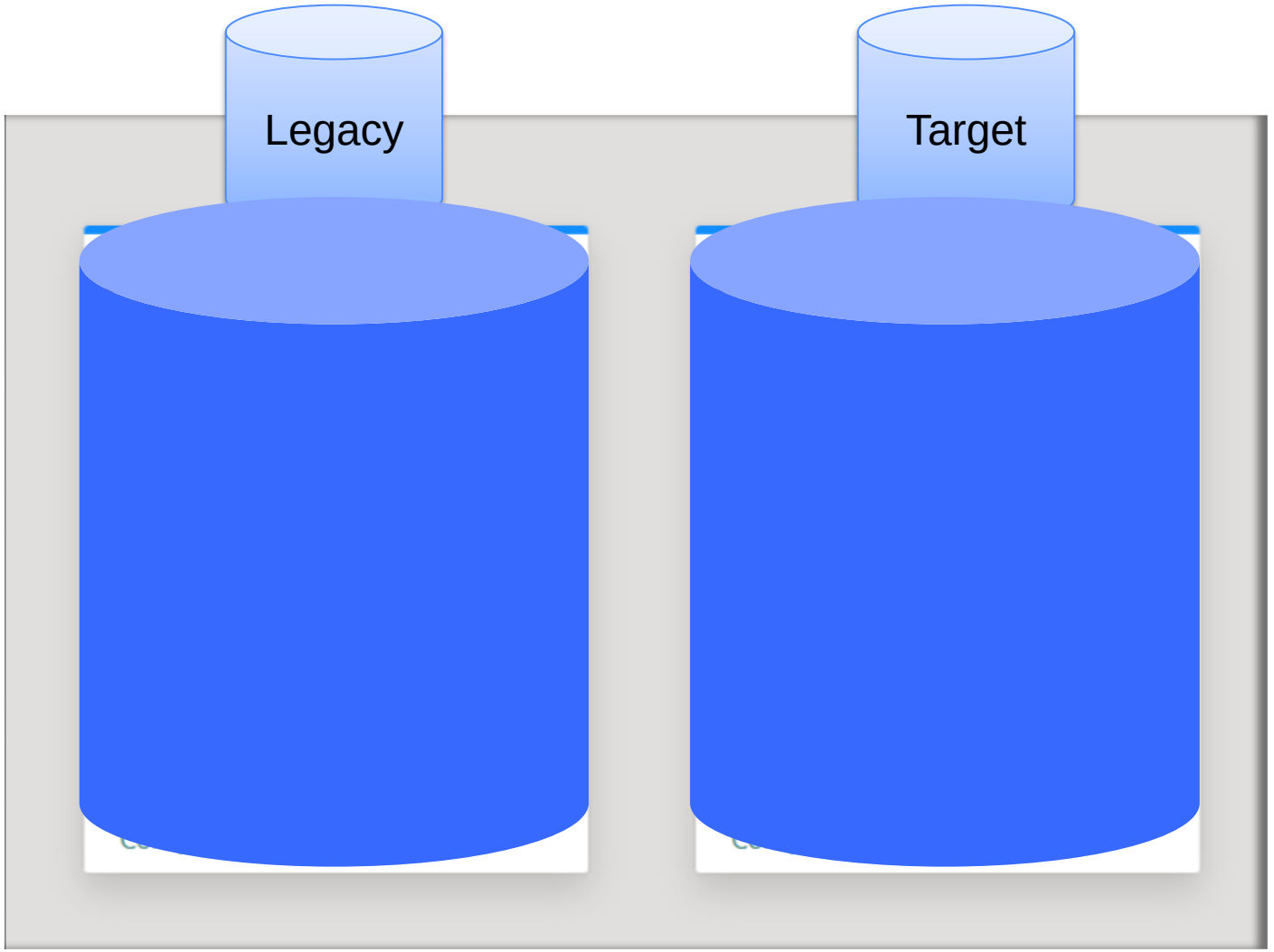

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Current cycle

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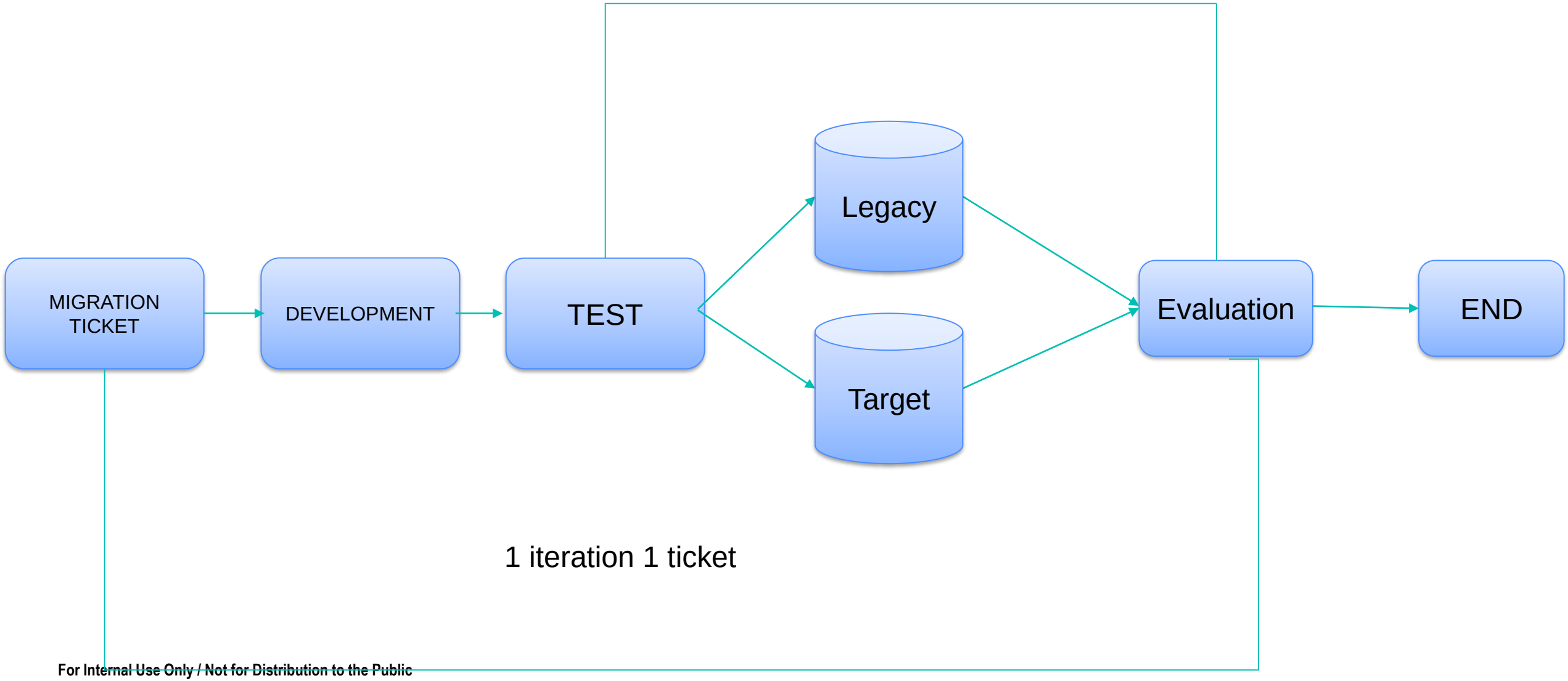
Time taken : 16 hours approximate



1 iteration 1 ticket

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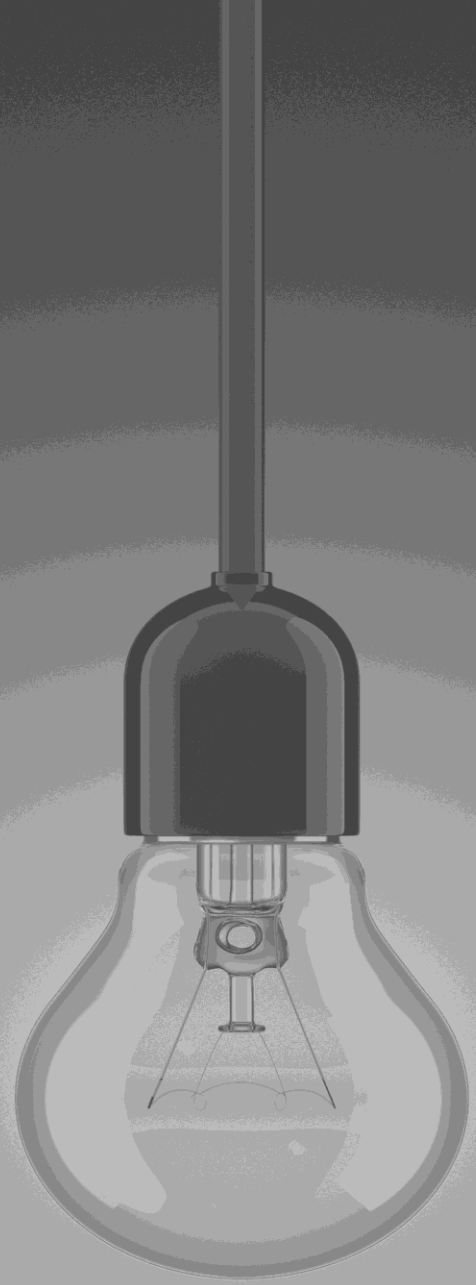
Idea



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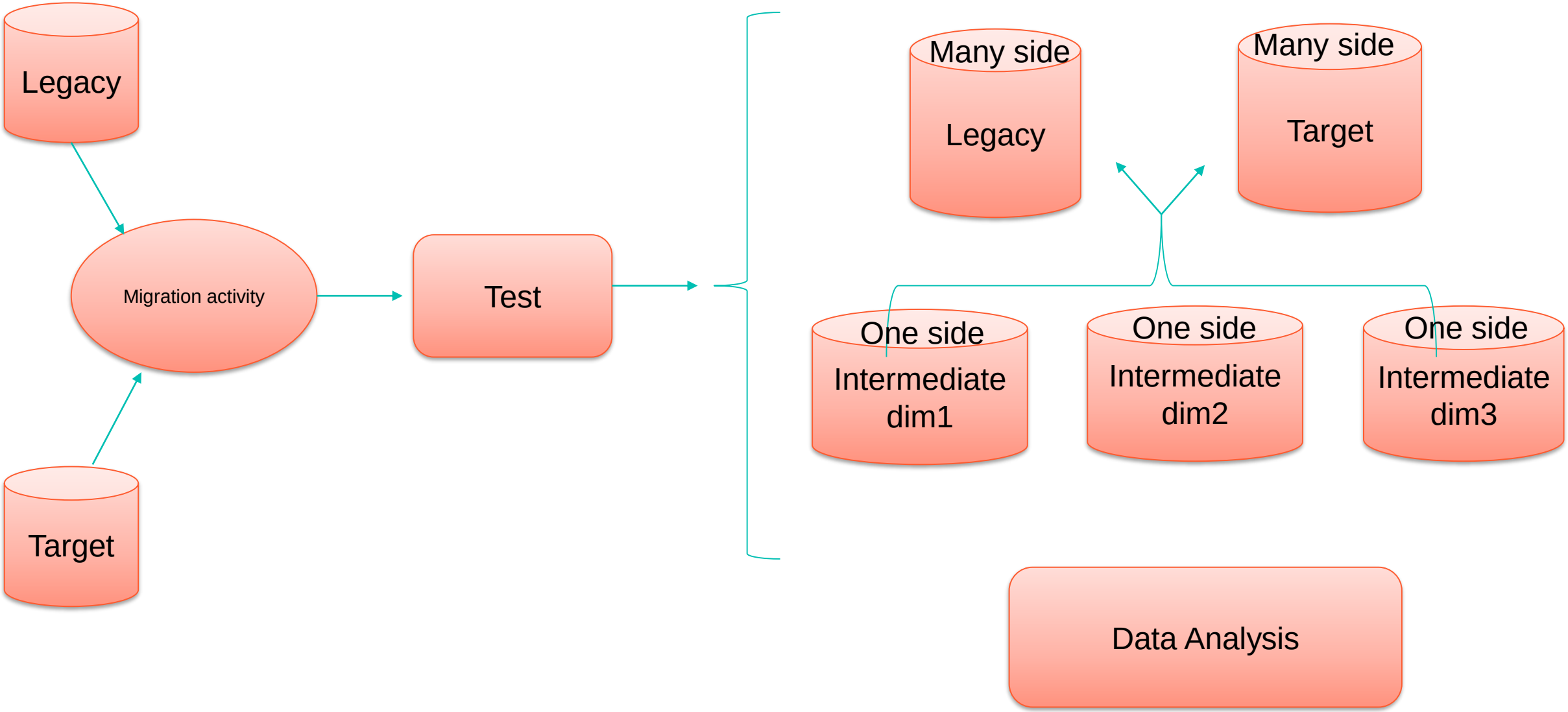
Idea graphical representation



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Post Idea implementation cycle

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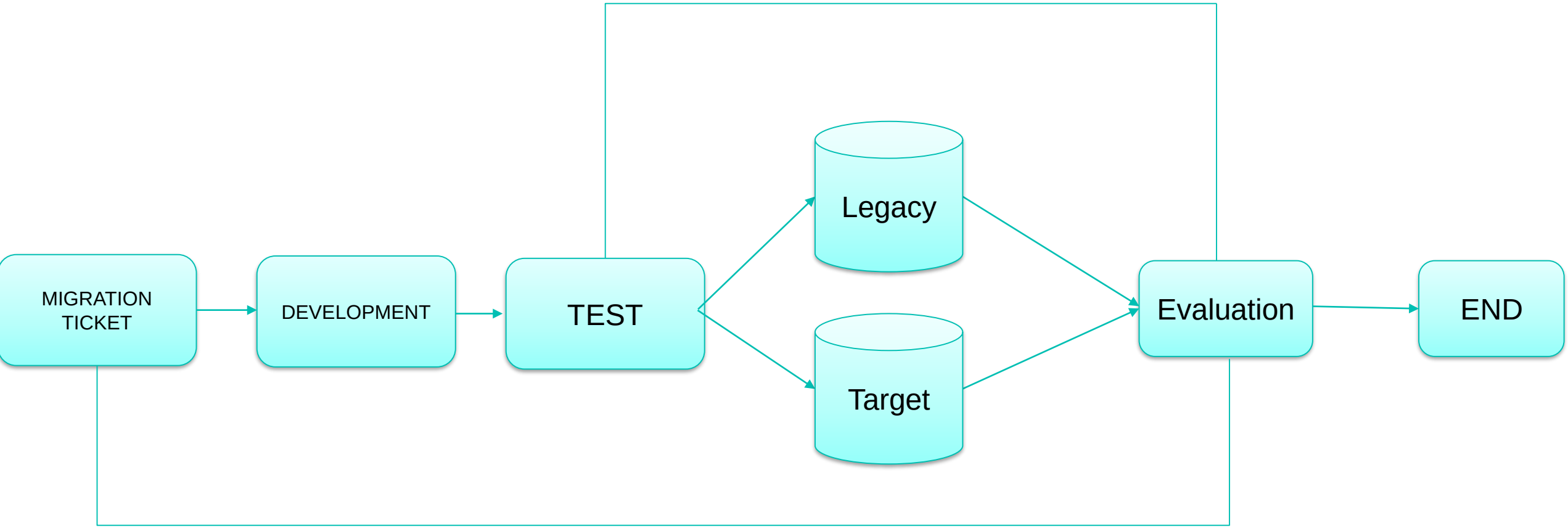
Time taken : 2 hours approximate



1 iteration 1 ticket

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Data Modelling Method

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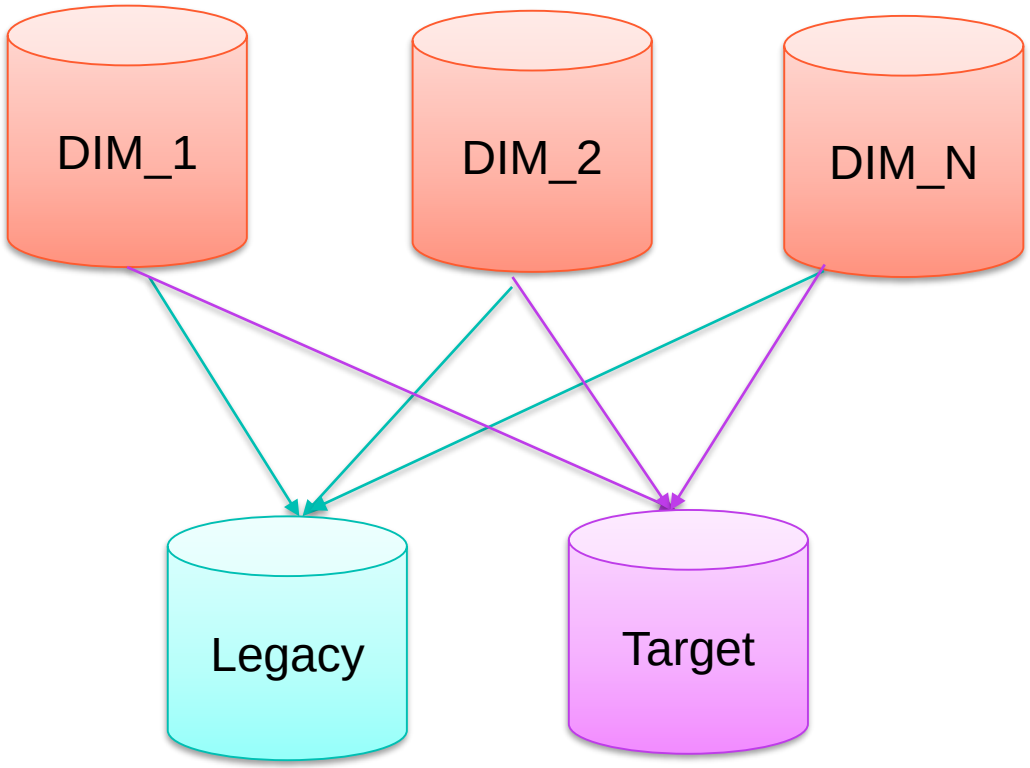

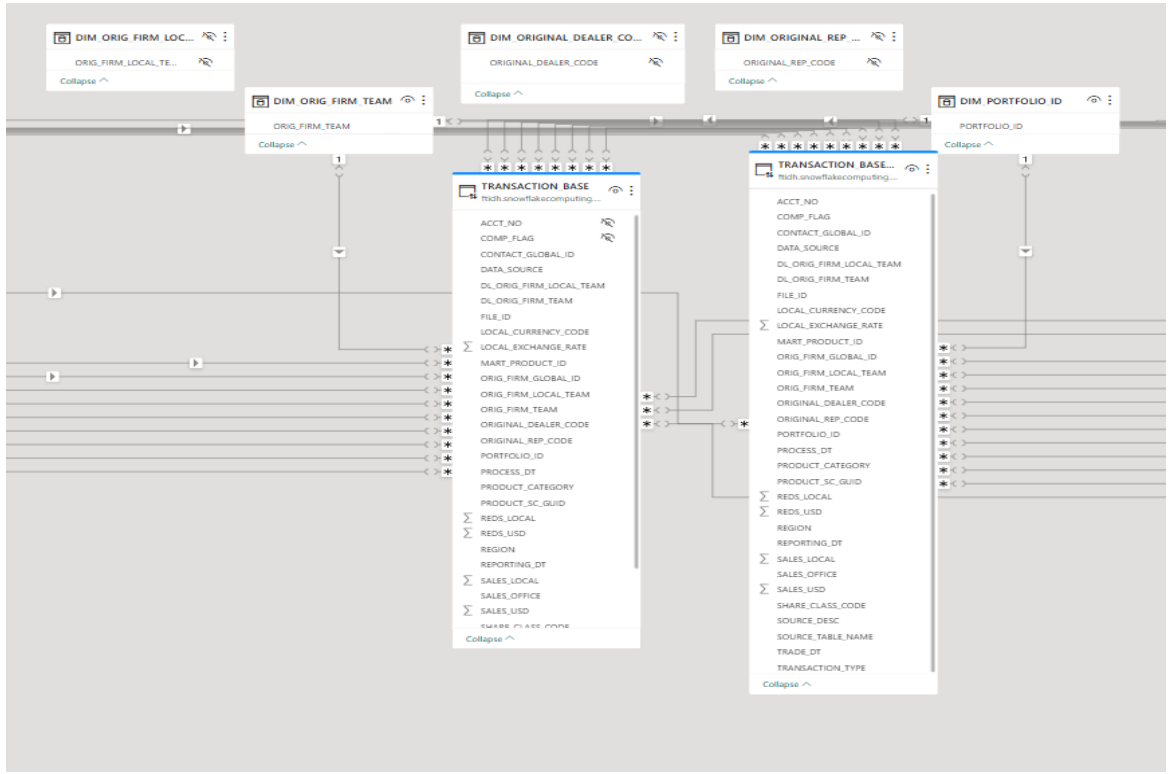

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Sample POC

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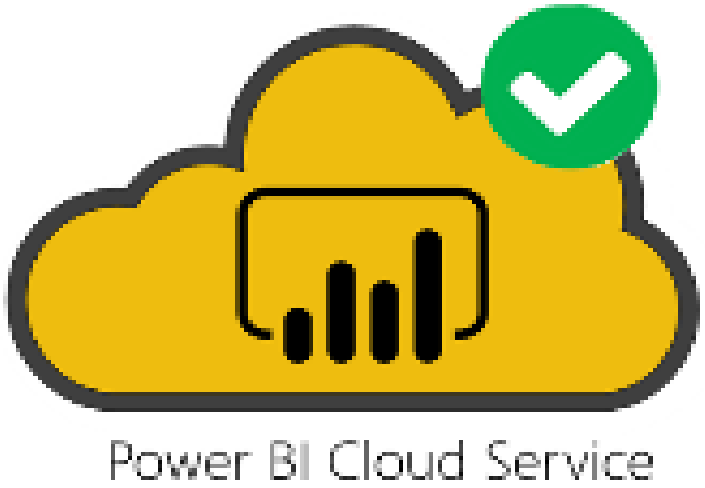
POWERBI desktop

Power BI

POWERBI Service



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How this model can help migration team

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Instant Data Querying

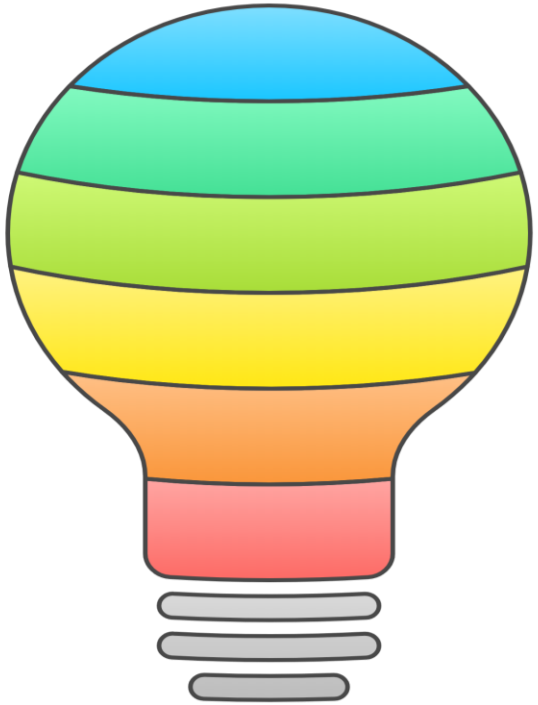
Enables rapid data access and decision-making

Simplified Data Validation

Simplifies multi-dimensional data validation

Accelerated Reiterations

Facilitates faster adjustments and iterations



Efficient Data Extraction

Streamlines data extraction processes

Real-Time Monitoring

Allows immediate monitoring of changes

Reusable Customization Setup

Supports one-time setup for ongoing use

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Peers Comments

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"Implement the model in IDH directly, The model is helpful."
- Raja Sree

"This project is good it will certainly reduce testing iteration efforts."
- Manasa

"This project has been incredibly helpful. It makes it easy to identify differences in validation across various systems and is saving time in fixing issues."
- Pavan

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COSTS

POST IDEA IMPACT

Calculation behind cost saved

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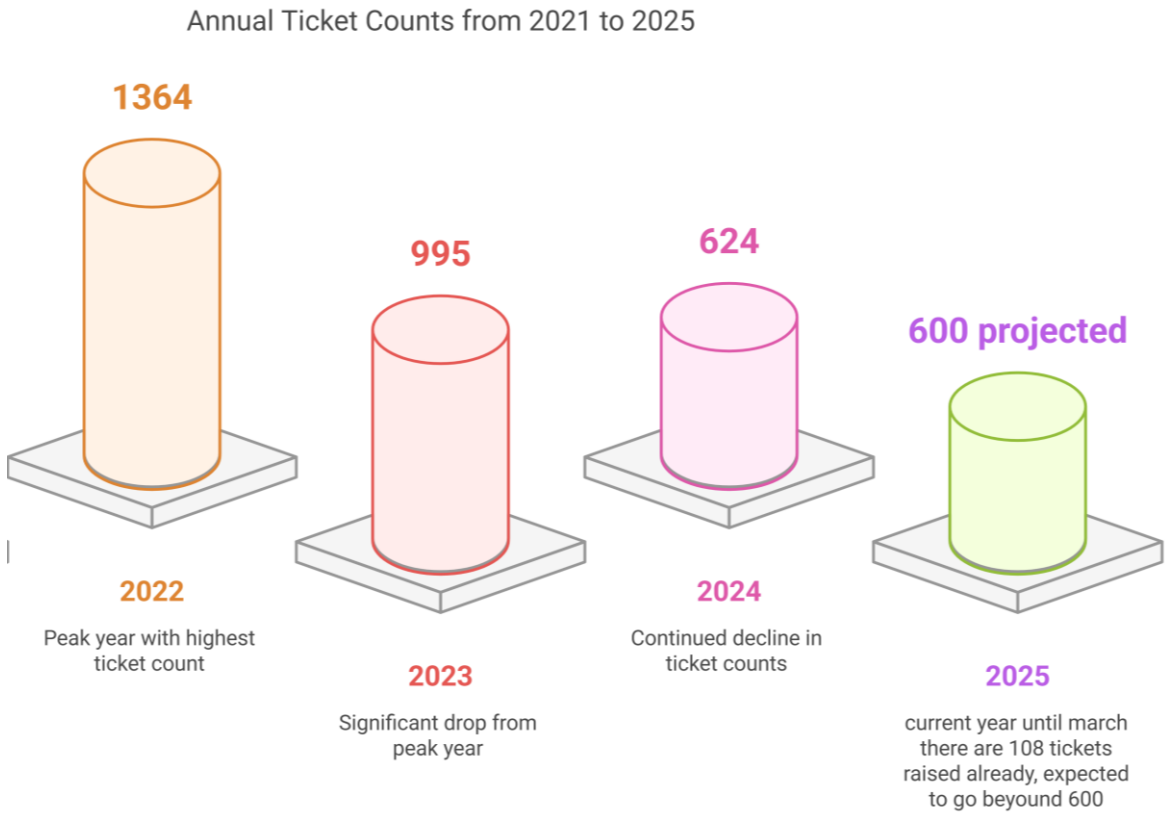
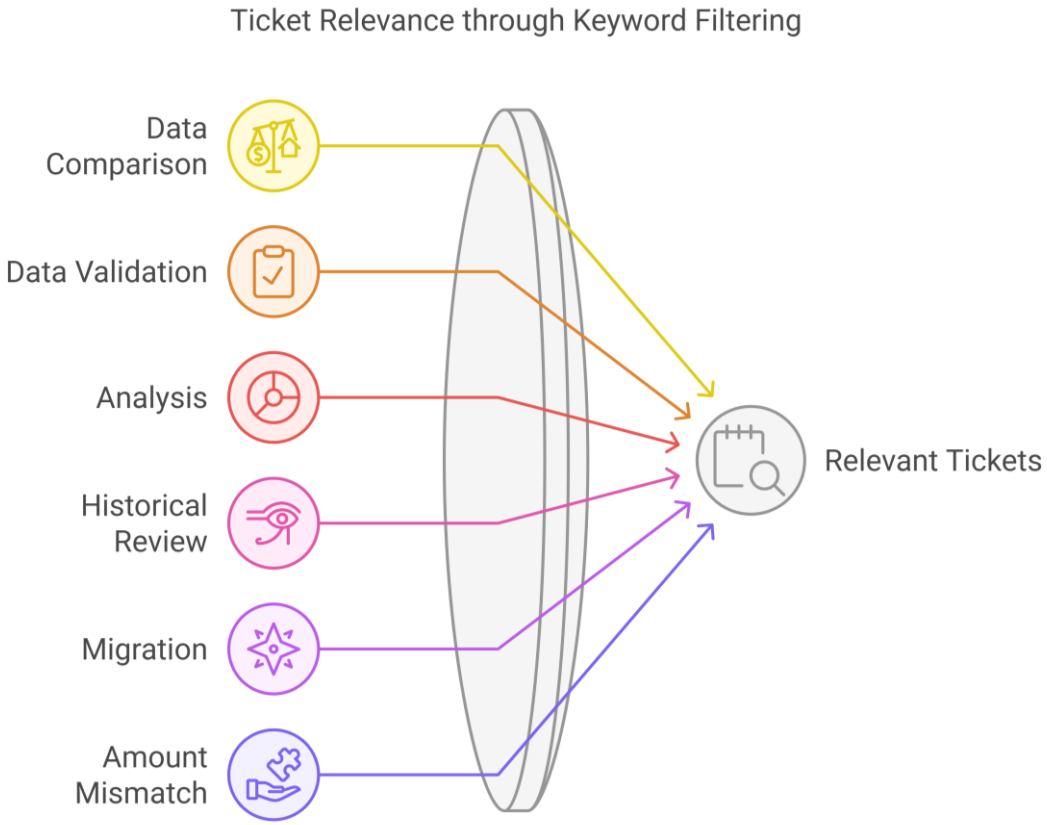
TEAM-6





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Cost savings

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Current process cost

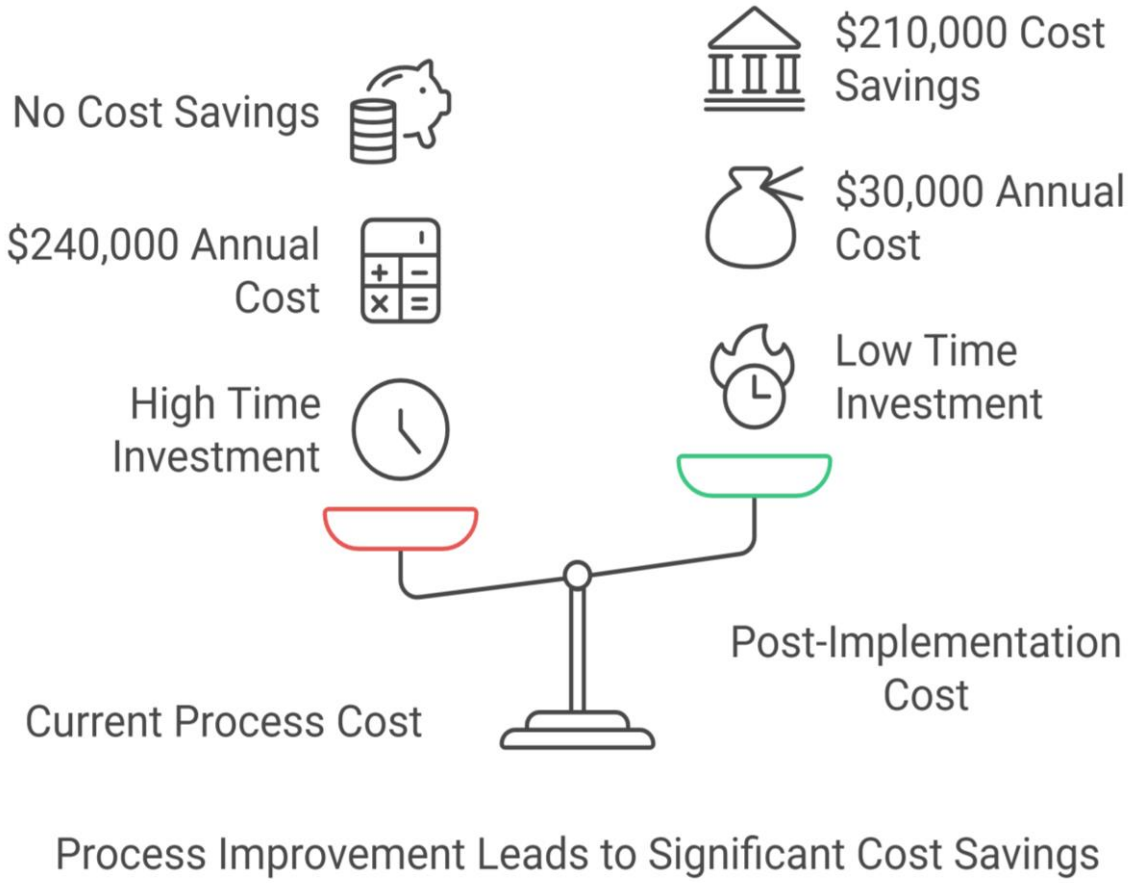
- 1 man hour cost =$25
- Total time taken per ticket = 16 hours
- Average ticket count per year = 600
- Total cost annually = 25*16*600= **$240,000**

Post idea implementation process cost

- 1 man hour cost =$25
- Total time taken per ticket = 16 hours
- Average ticket count per year = 600
- Total cost annually = 25*2*600 = **$30,000**

Total cost savings

=Current Process Cost – Post Idea cost
=$240,000 - $30,000
= $210,000



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What's Next?

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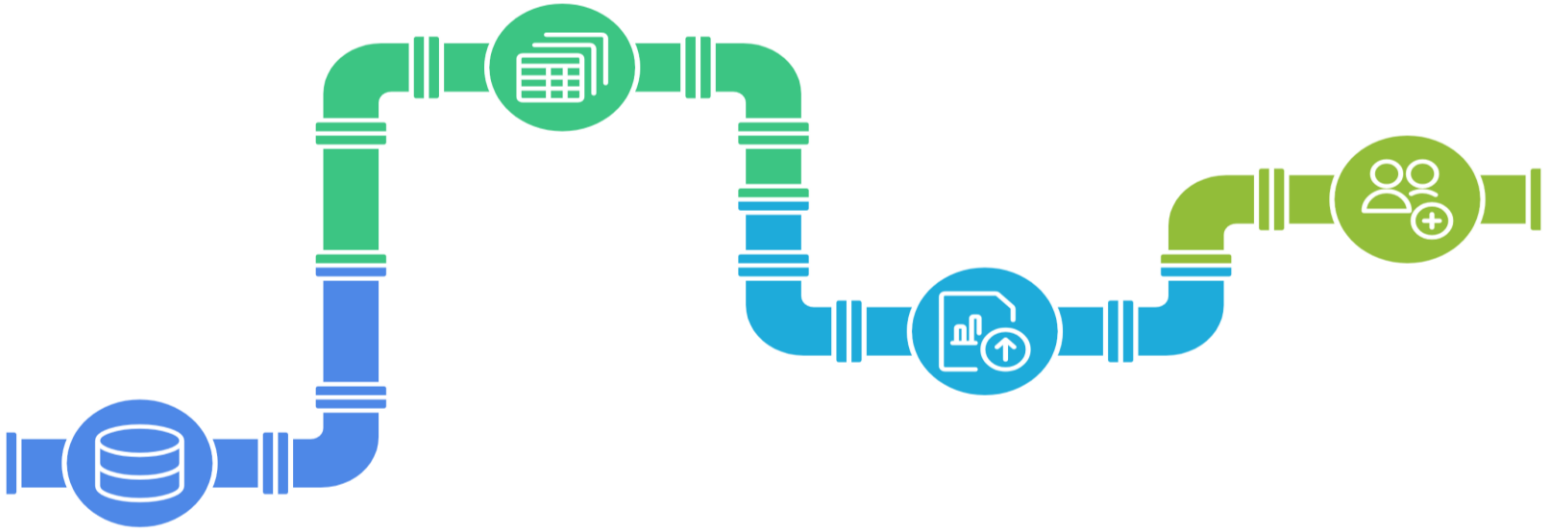
Call to action



01

Identify Databases

Determine legacy and target databases

02

Create Data Model

Develop a data model for visualization

03

Publish to Power BI

Upload the data model to Power BI service

04

Provide User Access

Grant user access to the published model

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ANY QUESTIONS?

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