



# Data Quality Assessment (DQA) for improving IPEA's Growth Strategy

## Task

To build a Data Quality dashboard, where data attributes must be assessed along 6 dimensions. CDE's are defined to form rules, of which the status is shown in the DQ Dashboard.

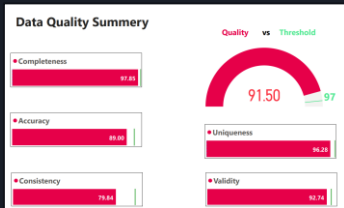


## Approach

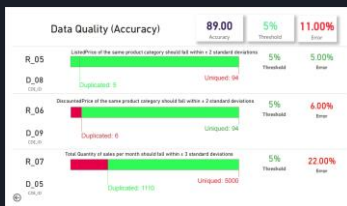
- 1-Defining Data Governance
- 2-Identifying Critical Data Elements
- 3-Designing Data Quality Rules
- 4-Setting thresholds
- 5-Implementing DQ
- 6-Monitoring



## Final result



## Accuracy



## Validity



## Dimensions of Data Quality

Completeness, Accuracy, Uniqueness, Consistency, Validity

## CDE & Rules

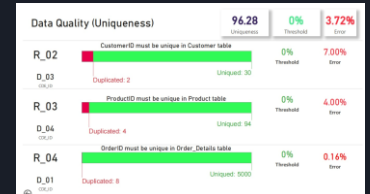
- Critical data elements consist of e.g., Customer ID, customer state.
- These CDE's are linked to Rules as e.g., if the Order ID is unique, if Customers are unique in the data table (but not in the order table).

CDE Name	CDE Description	Table
Order ID	The unique identifier of a sales order	Order_Details (FK)
Order Date	The date when a sales order was placed	Order_Details
Customer ID	The unique identifier of a customer	Customer (FK), Order_Details (FK)
Product ID	The unique identifier of a product	Product (FK), Order_Details (FK)

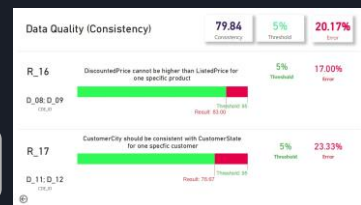
## Completeness



## Uniqueness



## consistency



**Team:**  
Eissa Al-shari  
Ali Ameen  
Motea Al-omari  
Saddam Obaid

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**Supervisors:**

Nick Bennink

Majda Kasmi



Tools and software