**Power BI Data Validation & Processing Code (Power Query M Code)**

**Project:** Employability Analytics Dashboard  
**Purpose:** These Power Query scripts were used to clean, validate, and transform raw Excel datasets into usable formats for Power BI dashboard development.

1. **Candidate\_Profiles Table**

let

Source = Excel.Workbook(File.Contents("E:\my docs\SAINT LOUIS UNIVERSITY\MRP\Candidate\_Profiles.xlsx"), null, true),

Candidate\_Profiles\_Sheet = Source{[Item="Candidate\_Profiles",Kind="Sheet"]}[Data],

#"Promoted Headers" = Table.PromoteHeaders(Candidate\_Profiles\_Sheet, [PromoteAllScalars=true]),

#"Changed Type" = Table.TransformColumnTypes(#"Promoted Headers",{

{"Candidate\_ID", Int64.Type},

{"Job\_Role", type text},

{"Experience\_Level", type text},

{"Education\_Level", type text},

{"Work\_Preference", type text},

{"Primary\_Skill", type text},

{"Certification", type text},

{"City", type text},

{"Salary\_Expectation", Int64.Type},

{"Job\_Status", type text},

{"Market\_Demand\_Score", type text},

{"Industry\_Hiring\_Trend", type text},

{"Expected\_vs\_Actual\_Salary\_Diff", Int64.Type},

{"Work\_Authorization", type text}

}),

#"Removed Blank Rows" = Table.SelectRows(#"Changed Type", each not List.IsEmpty(List.RemoveMatchingItems(Record.FieldValues(\_), {"", null}))),

#"Removed Columns" = Table.RemoveColumns(#"Removed Blank Rows",{"Market\_Demand\_Score"})

in

#"Removed Columns"

A screenshot of a computer

AI-generated content may be incorrect.

1. **Job\_Postings Table**

let

Source = Excel.Workbook(File.Contents("E:\my docs\SAINT LOUIS UNIVERSITY\MRP\Job\_Postings.xlsx"), null, true),

Job\_Postings\_Sheet = Source{[Item="Job\_Postings",Kind="Sheet"]}[Data],

#"Promoted Headers" = Table.PromoteHeaders(Job\_Postings\_Sheet, [PromoteAllScalars=true]),

#"Changed Type" = Table.TransformColumnTypes(#"Promoted Headers",{

{"Job\_Posting\_ID", Int64.Type},

{"Job\_Role", type text},

{"Location", type text},

{"Posting\_Date", Int64.Type},

{"Closing\_Date", Int64.Type},

{"Salary\_Range\_Min", Int64.Type},

{"Salary\_Range\_Max", Int64.Type},

{"Required\_Experience\_Level", type text},

{"Required\_Education\_Level", type text},

{"Required\_Skills", type text},

{"Certifications\_Required", type text},

{"Employment\_Type", type text},

{"Industry", type text},

{"Market\_Demand", type text},

{"Application\_Count", Int64.Type}

}),

#"Removed Blank Rows" = Table.SelectRows(#"Changed Type", each not List.IsEmpty(List.RemoveMatchingItems(Record.FieldValues(\_), {"", null}))),

#"Changed Type1" = Table.TransformColumnTypes(#"Removed Blank Rows",{

{"Posting\_Date", type date},

{"Closing\_Date", type date}

}),

#"Added Custom" = Table.AddColumn(#"Changed Type1", "Actual\_Salary ", each [Salary\_Range\_Max] - [Salary\_Range\_Min] / 2),

#"Renamed Columns" = Table.RenameColumns(#"Added Custom",{{"Actual\_Salary ", "Actual\_Salary "}}),

#"Added Conditional Column" = Table.AddColumn(#"Renamed Columns", "Market Demand New", each

if [Location] = "Los Angeles" then "High"

else if [Location] = "San Diego" then "High"

else if [Location] = "San Franciso" then "High"

else if [Location] = "San Jose" then "Medium"

else if [Location] = "Sacramento" then "Low"

else "Low")

in

#"Added Conditional Column"

A screenshot of a computer code

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