

# Job Pulse Dashboard Project Report

## 1. Summary

This project successfully delivered an interactive Power BI dashboard analyzing Wuzzuf hiring trends in Egypt. The dashboard provides HR professionals and job seekers with actionable insights through five dynamic visualizations with live data refresh capabilities.

## 2. Project Overview

- **Objective:**
  - Create an interactive Power BI report analyzing Egyptian job market trends from Wuzzuf data
  - Implement five chart types (bar, line, map, pie, table) with cross-filtering capabilities
- **Scope:**
  - **Data prep:** Cleaned and transformed raw Wuzzuf data using Power bi Power Query
  - **Data model:** Built star schema with fact/dimension tables in Power BI Desktop
  - **Dashboard:** Designed intuitive layout with color-coded themes
  - **Deployment:** Published to Power BI service with weekly refresh

## 3. Data Preparation

Source File: Wuzzuf-Job-Posting.xlsx

## Power Query Steps:

### 1. Removed Unnecessary Columns:

- Deleted `minpay` and `maxpay` columns (irrelevant for analysis).

### 2. Handled Missing Values:

- Replaced `null` values in the **Company Name** column with **"N/A"** for consistency.

### 3. Split & Normalized Columns:

#### ○ Skills Column:

- Split into individual skill records (e.g., "Python, SQL" → two separate entries).
- Created a **DimSkills** table and established a **one-to-many** relationship with the main table.

#### ○ JobType Column:

- Separated hybrid/remote/on-site values into distinct categories.
- Created a **DimJobType** table and linked it to the fact table.

### 4. Additional Cleaning:

- Standardized text formatting (uppercase/lowercase consistency).
- Removed duplicate job postings.

Notes: **All transformation steps are documented in Power Query Editor** for reproducibility.

The screenshot displays the 'Query Settings' pane in the Power Query Editor, which is divided into two main sections: 'PROPERTIES' and 'APPLIED STEPS'.

**PROPERTIES**

- Name:** Wuzzuf-Jobs-cleaned
- [All Properties](#)

**APPLIED STEPS**

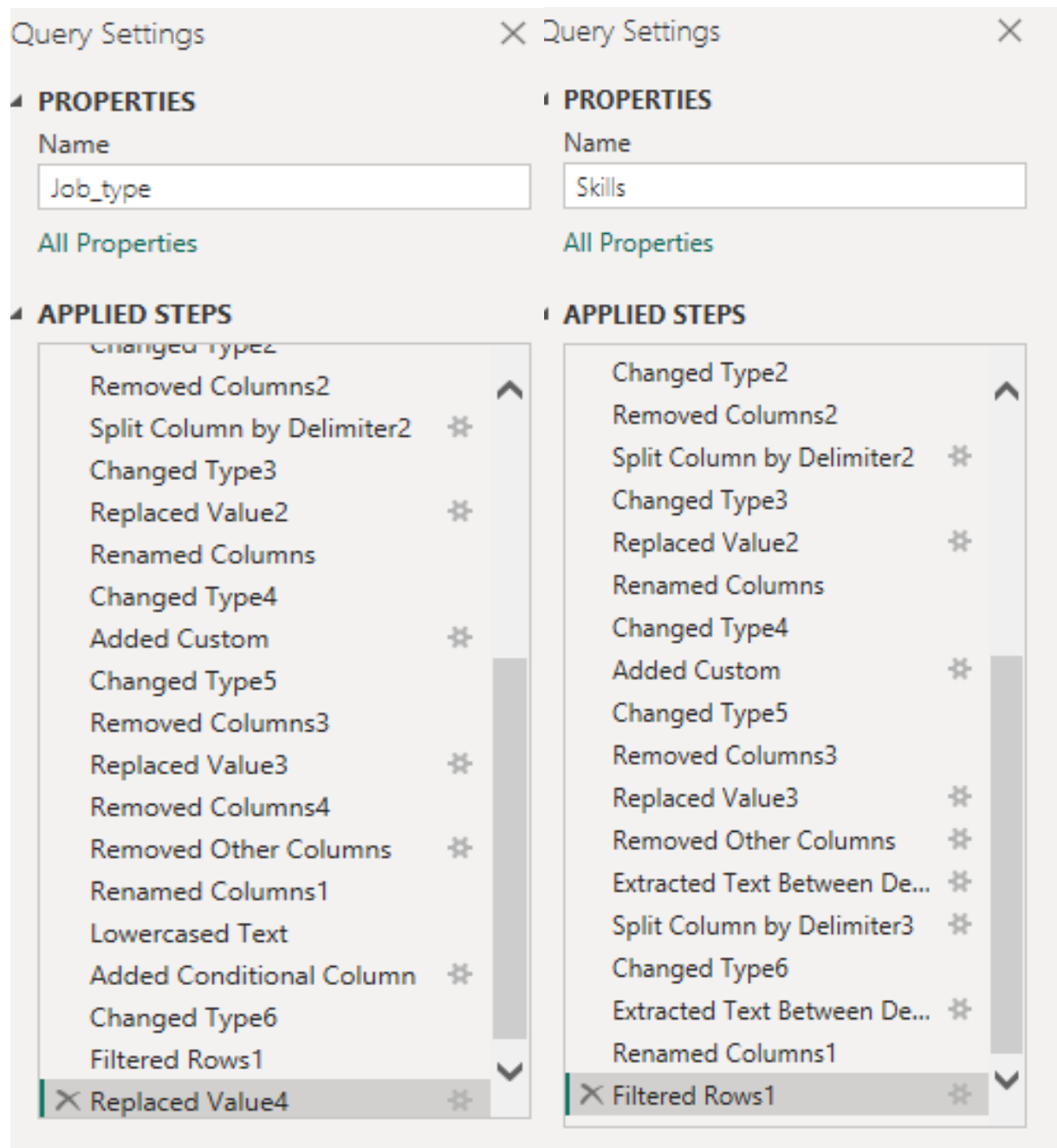
The 'APPLIED STEPS' section is divided into two panes. The left pane shows a list of steps with a scroll bar, and the right pane shows a detailed view of the selected step, 'Removed Columns4'.

**Left Pane (Applied Steps List):**

- Source
- Promoted Headers
- Changed Type
- Removed Columns
- Filtered Rows
- Replaced Value
- Split Column by Delimiter
- Changed Type1
- Removed Columns1
- Replaced Value1
- Split Column by Delimiter1
- Changed Type2
- Removed Columns2
- Split Column by Delimiter2
- Changed Type3
- Replaced Value2
- Renamed Columns
- Changed Type4

**Right Pane (Selected Step: Removed Columns4):**

- Replaced Value
- Split Column by Delimiter
- Changed Type1
- Removed Columns1
- Replaced Value1
- Split Column by Delimiter1
- Changed Type2
- Removed Columns2
- Split Column by Delimiter2
- Changed Type3
- Replaced Value2
- Renamed Columns
- Changed Type4
- Added Custom
- Changed Type5
- Removed Columns3
- Replaced Value3
- Removed Columns4



## 4. Data Modeling & Measures

- **Relationships:**
  - **Fact\_JobPostings** (main table) ↔ **DimSkills** (one-to-many).
  - **Fact\_JobPostings** ↔ **DimJobType** (one-to-many).

- **Key DAX Measures:**

- Total number of job postings

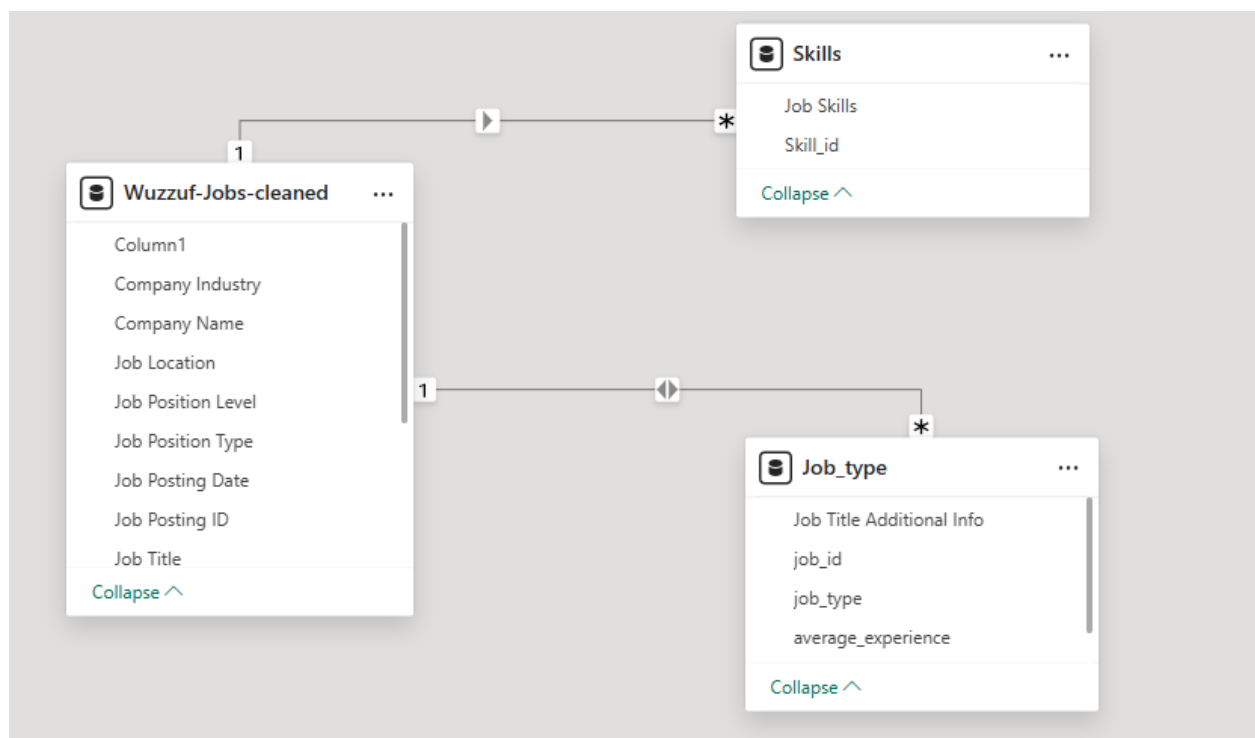
Total Postings = COUNTROWS(Jobs)

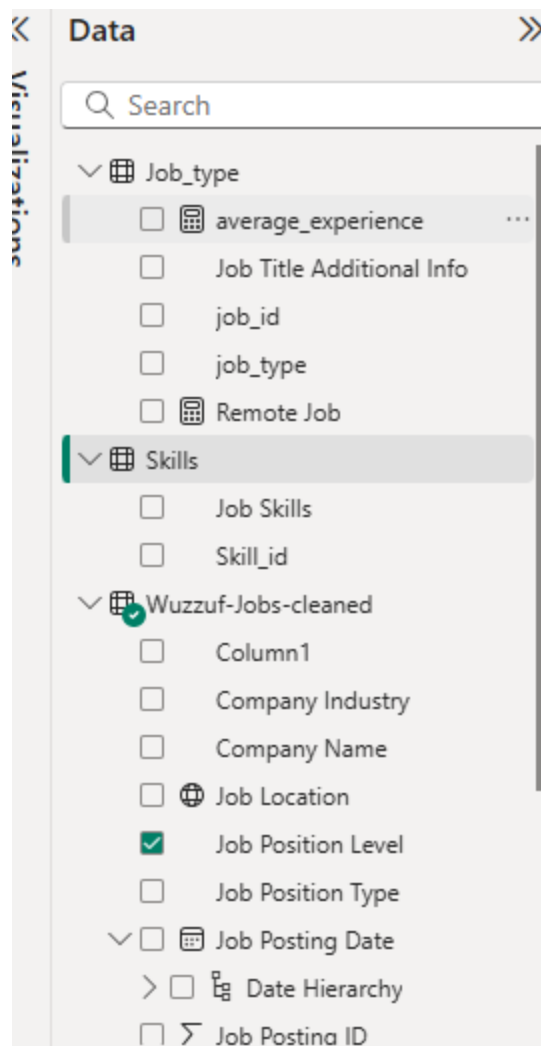
- Percentage of remote jobs

Remote Jobs Ratio = DIVIDE(COUNTROWS(FILTER(Jobs, Jobs[Work Mode] = "Remote")),  
COUNTROWS(Jobs), 0)

- Average years of experience required

Avg. Experience = AVERAGE(Jobs[Years of Experience])





## 5. Dashboard Design

### Canvas Layout:

1. **Header Section:** Title with last refresh timestamp
2. **KPIs Section:** Cards showing total postings, average salary, month-over-month change
3. **Main Visualizations:**
  - Line chart showing postings trend over time
  - Bar chart of top 10 companies by job postings
  - Map visualization of job locations
  - Pie chart of job categories distribution

- Table of recent high-salary postings
4. **Filters Panel:** Company, location, job category, and date range slicers



POWER RUL:

<https://app.powerbi.com/view?r=eyJrIjojMjI0NTIyYzYtM2Y1YS00MTUzLTkyYzgtNGRlZmRhMDA5ZDE3IiwidCI6IjRlNDVhNjc3LTg3NjctNDNkNy1iInZmLTdhNzVIMzRkMjFkYiJ9>

Video:

<https://www.loom.com/share/52345eca004843dc9bd87599d2678b09?sid=4f4131a2-b770-46ab-9ef7-cc2a871dd5cf>