

# **LAB MANUAL**



**K. R. MANGALAM UNIVERSITY**

**B. TECH CSE (AI&ML)**

**(POWER BI PROJECT)**

Project report submitted in partial fulfilment of the  
requirement for the degree of

**B. Tech CSE (AI/ML)**

**SOET**

**(School of Engineering & Technology)**

Submitted by-

Name - **Kunal Yadav**

Roll no - **2401730157**

Submitted to-

**MR.NAKUL PANT**

# DECLARATION

We declare that this written submission represents our ideas in our own words and where other's ideas or words have been included, we have adequately cited and referenced the sources. We also declare that we have adhered to all academic honesty and integrity principles and have not misrepresented, fabricated, or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will cause disciplinary action by the Institute and Canal will invoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. We further declare that my supervisor and university should not be held responsible if there is any intellectual property right or copyright violation.

**Student Name: Kunal Yadav**

**Roll No: 2301730157**

**Place: K.R. Mangalam University**

**Date: December 2, 2024**

# **CERTIFICATE**

It is certified that the work contained in the project report titled

**“ K.R MANGALAM UNIVERSITY”**

INFORMATION SYSTEM PROJECT (POWER BI PROJECT)." by the following

student:

**Name of the Student: Kunal Yadav**

**Roll Number: 2401730157**

has been carried out under our/my supervision and this work has not been

submitted elsewhere for a degree.

**Signature of Supervisor –**

**Name of the Supervisor -**

**Designation –**

**Date: - December 2, 2024**

**Place: - K.R. Mangalam University**

# ACKNOWLEDGEMENT

*“Enthusiasm is the feet of all progress, with it there is accomplishment and Without it there are only slits alibis.”*

Acknowledgement is not a ritual but is certainly an important thing for the successful completion of the project. I was made to know about the project, it was tough to proceed further as we were to develop the same on a new platform. More so, the coding part seemed tricky, and it seemed to be impossible for me to complete the work within the given duration. I feel indebted in acknowledging the organizational support and encouragement received from the university. The task of developing this system would not have been possible without the constant help of our faculty members and friends. I take this opportunity to express our profound gratitude and respect to those who helped us throughout this project. I thank our supervisor, Mr NP, for giving us their valuable time and guidance.

Place: K.R. Mangalam University





Name of Student : Kunal Yadav

Date: December 2, 2024

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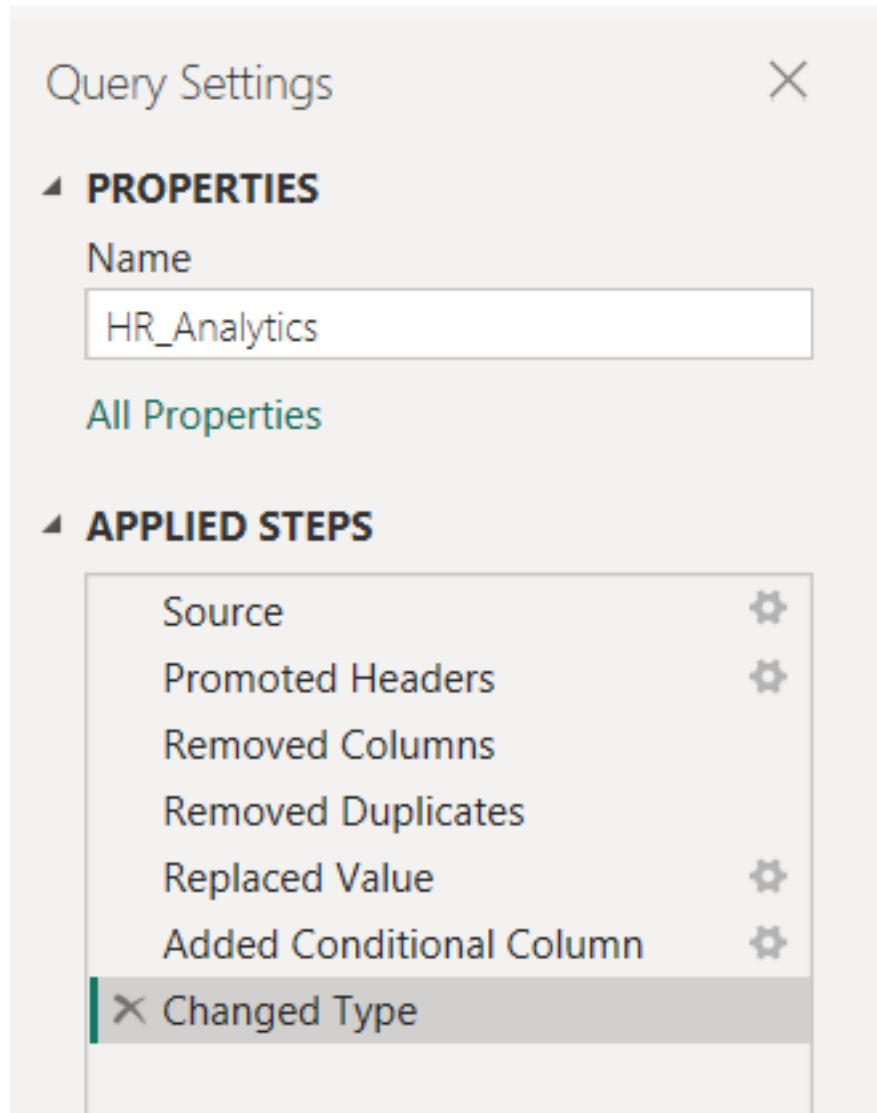
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# Getting the Dataset

Shared with me > HR Analytics ▾		👤
Type ▾	People ▾	Modified ▾
Name		Owner
 HR_Analytics.csv 👤		 newrnm108
 BG12.jpg 👤		 newrnm108

**Source: Rishab Mishra**

# cleaning



- **Removed unwanted Columns.**
- **Removed Duplicates.**
- **Replaced duplicated value name by original.**
- **Detected the data types for int and float.**

# Dashboard





# Insights

- **High Attrition Rate:** The overall attrition rate is 16.1%, which indicates a significant turnover within the company.
- **Education Impact:** Employees with a Life Sciences background have the highest attrition rate (38%), followed by those in the Medical field (27%).
- **Age Factor:** The age group 26-35 has the highest attrition (116 employees), suggesting that mid-career professionals are more likely to leave.
- **Gender Disparity:** More males (140) are leaving compared to females (79).
- **Salary Influence:** The majority of attrition occurs in the lower salary bracket (up to 5k), with 163 employees leaving.
- **Experience Level:** Employees with 1 year of experience have the highest attrition (59), indicating potential issues with early retention.
- **Job Role:** Laboratory Technicians and Sales Executives have the highest attrition rates, with 62 and 57 employees leaving, respectively.

# Conclusion

This Power BI project provides a comprehensive foundation for understanding and practicing data visualization and analysis. By working through the setup and creating various visualizations, you'll gain valuable skills in data management, interpretation, and presentation. Feel free to expand the project by incorporating additional datasets, creating more complex visualizations, and exploring advanced features of Power BI to deepen your understanding and proficiency.