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Project Management Dashboard

DATA CLEANING

When working with uncleaned data, the goal is to address missing, inconsistent, or erroneous values to ensure accuracy in analysis. Data is been cleaned by using power query editorin PowerBI. Here are some steps that are used for Data cleaning
Checked all datatype is in correct format

- **Date:** Ensure consistent date format (e.g.DD-MM-YYYY).

- **Client feedback :** Replaced **Null** value with **No Feedback** .

- **Subcontractor:** Replaced **Null** value with **Not Available** .

- **Compliance Requirements** : Replaced empty spaces with **Unknown**

- By using **coloum quantity** we can visualized the accuracy of **valid data (eg. Valid % , Error % and Empty %).**

Dashboard Overview

Section	Key Metrics	Analysis Focus	Business Insight
1. Project Status Tracking	- Progress (%) - Milestones Achieved	- Track project progress vs milestones - Budget vs actual	- Identify projects behind schedule or over budget - Corrective action to stay on track
2. Project Risk Identification	- Risk Level - Progress - Budget Spent	- Evaluate risk levels vs progress and expenses	- Mitigate high-risk projects early with additional resources or strategy adjustments
3. Budget Efficiency	- Budget (USD) - Spent Budget (USD)	- Compare planned vs actual budget	- Prevent overspending and optimize financial management - Ensure better resource allocation
4. Client Satisfaction & Feedback	- Client Feedback	- Analyze feedback vs project outcomes (progress, milestones)	- Improve communication and execution based on negative feedback
5. Resource Allocation and Team Performance	- Project Manager - Department - Hours Worked	- Evaluate resource allocation across projects	- Identify underperforming teams or overloaded resources for redistribution
6. Milestone Analysis	- Milestones Achieved	- Track milestone completion on time vs delays	- Identify bottlenecks and address stages most prone to delays
7. Departmental Performance	- Department - Project Outcomes	- Compare department success rates across projects	- Identify efficient departments and target underperforming teams for support or training

DATA CLEANING

Problem	Description
Tracking Project Progress vs. Milestones	Project managers often struggle to track if projects are progressing as planned. The difficulty lies in comparing actual progress against planned milestones, leading to potential delays and missed deadlines.
Lack of Financial Health Insight	Without real-time visibility into financials, projects often exceed their planned budgets. Project managers lack a clear understanding of financial health, leading to budget overruns.
Limited Understanding of Client Satisfaction	Client feedback is not always integrated into project progress analysis. This leads to limited understanding of how client satisfaction correlates with project performance, potentially leading to dissatisfaction and lost clients.
Poor Resource Allocation and Execution	Inefficient distribution of resources across multiple projects causes delays, increased costs, and overburdened teams, affecting overall project performance and increasing workload stress.

Business Impact & Solutions

Business Impact

- **Improved Decision-Making**: Enables timely intervention to address issues and ensure projects stay on track.
- **Cost Control**: Prevents overspending by monitoring budgets and optimizing financial resources.
- **Client Satisfaction**: Enhances delivery through feedback analysis, ensuring client expectations are met.
- **Optimized Resource Management**: Increases efficiency by reallocating resources based on performance insights.

Solution

- Compare **Progress (%)** and **Milestones Achieved** with **Budget**.
- Cross-reference **Risk Level** with **Progress**, **Budget**, and **Milestones**.
- Compare **Budget (USD)** with **Spent Budget (USD)**.
- Analyze **Client Feedback** in relation to **Progress**, **Milestones**, and **Budget**.
- Examine **Project Manager**, **Department**, and **Hours Worked**.
- Track milestone achievement and delays.
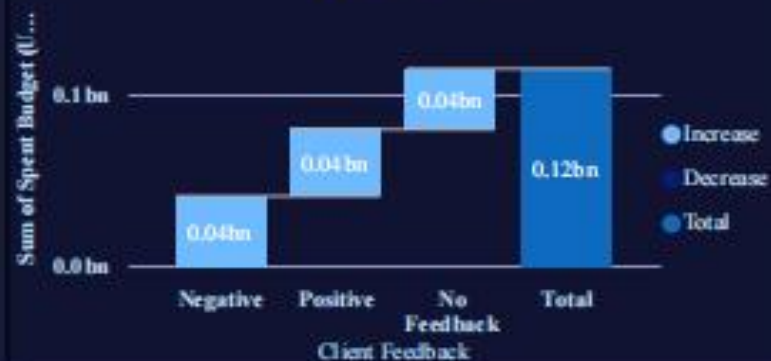- Analyze performance by **Department**.

Project Management

Department: All

Status: All

Client Name: All

Priority Level: All

Feedback

Sum of Spent Budget (U...) vs Client Feedback

- Negative: 0.04bn
- Positive: 0.04bn
- No Feedback: 0.04bn
- Total: 0.12bn

Legend: ● Increase ● Decrease ● Total

Budget Efficiency

- 50K (41.74%)
- 70K (58.26%)

Legend: ● Max of Spent Budget (USD) ● Max of Budget (USD)
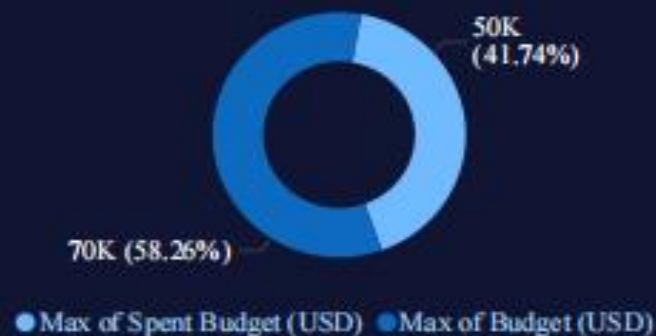
Progress Risk Identificationd

Sum of Progress (%) vs Risk Level

- Medium: 83K
- Low: 82K
- High: 82K
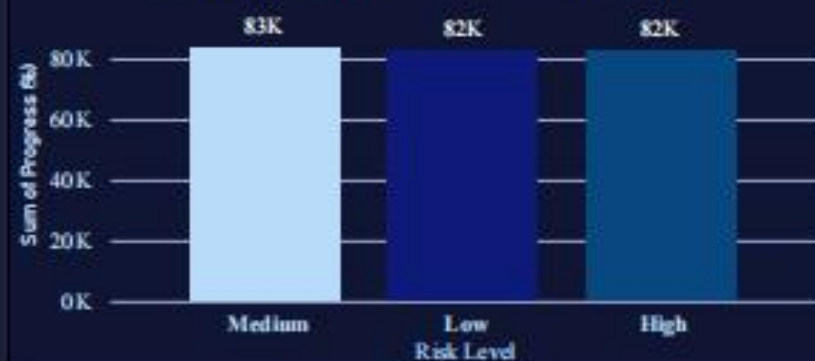
Client Feedback

Client Name: ● Client A ● Client B ● Client C ● Client D ● Client E

Manager 1, Manager 2, Manager 3 — Count of Project by Client Feedback (Negative, No Feedback, Positive)

Technologies Used

🔒 Technology... | Code Repos... ✕

Angular

- Count of Project Type: 3818
- MySQL: 177
- Angular: 175
- PostgreSQL: 175
- https://github.com/tea...: 52
- https://github.com/tea...: 46
- https://github.com/tea...: 46
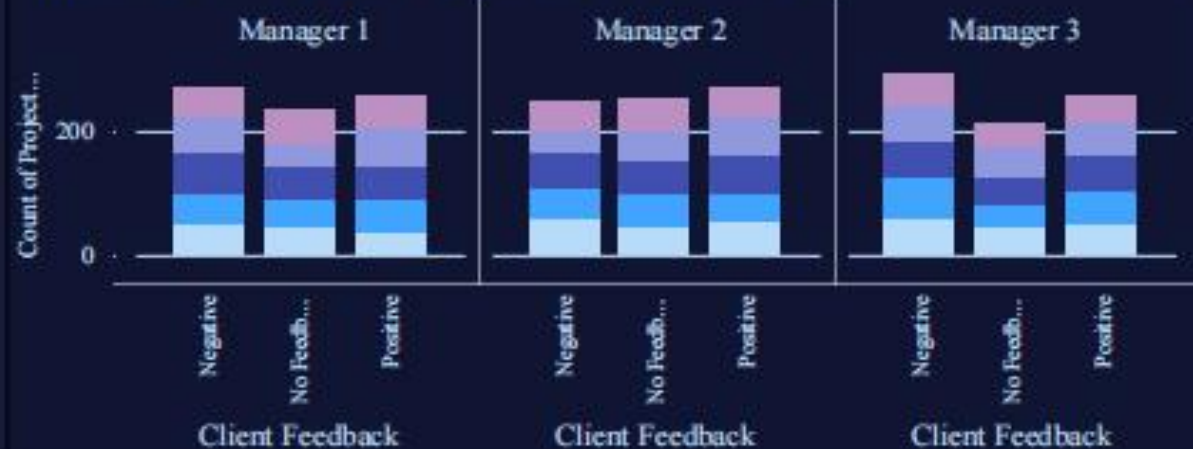
Productivity

High Risk Level	High Priority Level
High Risk Level	Low Priority Level
High Risk Level	Medium Priority Level

Revenue

Revenue Generated (USD)

| 5013 | 100000 |

Progress Status Tracking

- 59K (23.72%)
- 64K (25.68%)
- 62K (25.04%)
- 63K (25.56%)

Department
- Marketing
- Human Re...
- Development
- Sales

Milestone Analysis

Milestones Achieved	Count of Status
5	748
4	805
3	757
2	761
1	747

0 — 500 — 1,000
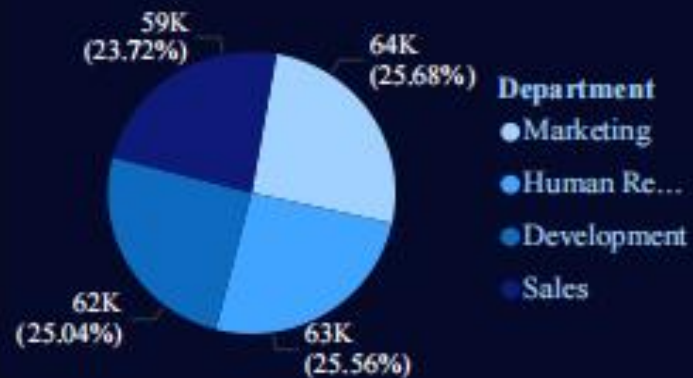
Project Duration for Complition

Count of Actual End Date by Month

January, February, March, April, May, June, July, August, Septem..., October, November, December

Team Performance

Sum of Hours Worked

65K, 64K, 62K, 75K, 57K, 60K, 61K, 59K, 69K, 53K, 75K, 67K, 70K, 60K, 61K

Project Type: Development, Maintenance, Support

Manager 1, Manager 2, Manager 3, Manager 4, Manager 5

Conclusion

The **Project Management Dataset** is a valuable tool for improving project management practices by providing insights into key areas such as budget management, progress tracking, client satisfaction, and resource allocation. By analyzing this data, organizations can identify and address issues like budget overruns, delays, and poor resource utilization. This enables more efficient decision-making, cost reduction, improved client satisfaction, and better project outcomes. Ultimately, leveraging the dataset helps optimize project execution, leading to enhanced performance, cost savings, and overall business growth.

THANKS