Risk Summary Dashboard Using Power BI

By Ankita Choubey

Project Overview

This dashboard helps visualize and monitor **project risks and opportunities**.

It allows users to track risks by **owner, severity, likelihood, and status**.

Provides actionable insights using **weighted risk scores**.

Goal: To help PMOs, Risk Managers, and Project Leads make data-informed decisions on risk mitigation.

Objectives / Goals

✅ Provide executives and project managers a **quick overview** of active risks

✅ Enable **risk owners** to monitor assigned risks and mitigation progress

✅ Support **prioritization** using *weighted risk scores (Severity × Likelihood)*

✅ Promote **data transparency** across teams

Risk Summery

Risk/Opportu...
- ☐ Alice
- ☐ Bob
- ☐ Charlie
- ☐ Diana
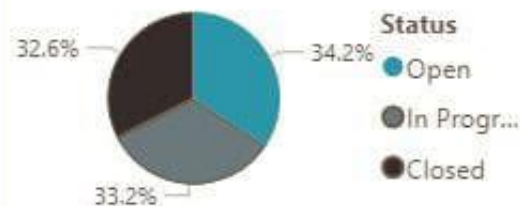
Status
- ☐ Closed
- ☐ In Progress
- ☐ Open

Likelihood
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Risk Status

32.6%   34.2%
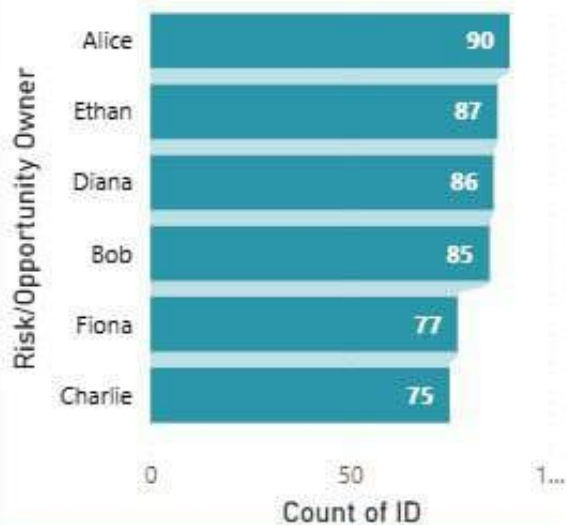33.2%

Status
- ● Open
- ● In Progr...
- ● Closed

Sum of Is Open

500

Sum of Lilelihood

1508

Sum of Severity

1488

Count View (by Number of Risks)

Risk/Opportunity Owner	Count of ID
Alice	90
Ethan	87
Diana	86
Bob	85
Fiona	77
Charlie	75

Risk Level by Likelihood

● High ● Low ● Medium

Likelihood	Medium	Low	High
1	32.38%	31.43%	36.19%
2	32.14%	33.33%	34.52%
3	35.19%	24.07%	40.74%
4	38.46%	31.73%	29.81%
5	38.38%	28.28%	33.33%
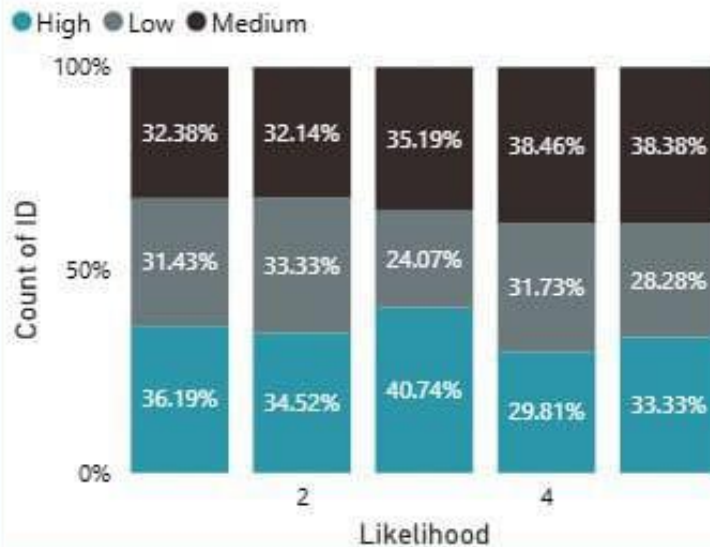
Weighted View (by Risk Score)

Risk/Opportunity Owner	Risk Score
Diana	787
Bob	786
Alice	785
Ethan	777
Fiona	646
Charlie	643
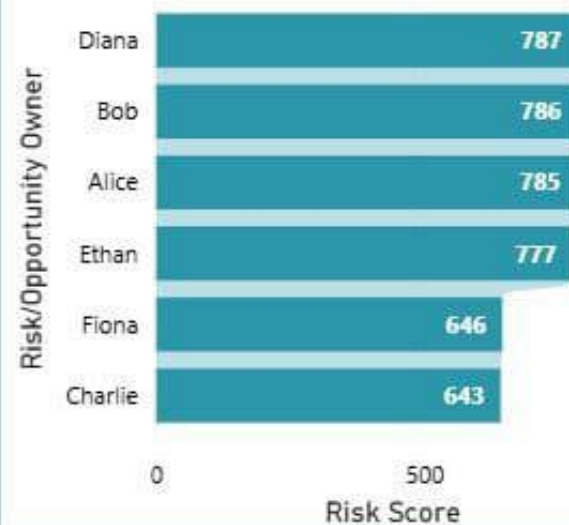
Owner vs Risk Category

Risk/Opportunity Owner	Critical	Low	Moderate
Alice	12	56	22
Bob	8	49	28
Charlie	11	50	14
Diana	13	53	20
Total	00	308	132

Full Risk Details

Count of ID	Risk/Opportunity Description	Risk/Opportunity Owner	Sum of Likelihood	Sum of Severity / Impact	Mitigation Plan
1	Supplier failure risk	Alice	1	3	Mitigation plan 12
1	Supplier failure risk	Alice	3	3	Mitigation plan 14
1	Supplier failure risk	Alice	2	1	Mitigation plan 21
1	Supplier failure risk	Alice	3	3	Mitigation plan 22
500			1508	1488	

Target Audience
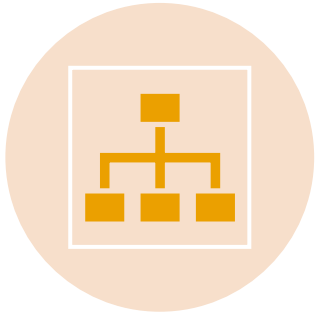
🧑‍💼 PMO (Project Management Office)

🧑‍🔧 Project Leads

🧑‍💻 Risk Managers

🧠 Executives & Decision Makers

Data Model & Sources

Data Table: risks

Columns:

RiskID, RiskDescription

RiskCategory

Data Sources:

Excel / CSV files

SQL Server / PostgreSQL

API from Risk Management Tools

Key Metrics & KPIs

Metric	Description
Total Open Risks	Count of active risks (`IsOpen = True`)
Sum of Severity	Total severity of all open risks
Sum of Likelihood	Total likelihood values
Weighted Risk Score	Sum of (Severity × Likelihood)
Status Breakdown	Open / In Progress / Closed
Owner-Level Ranking	Risk count and score by owner

Dashboard Features & Interactions

🔍 **Filter Pane** – Filter by Owner, Status, or Likelihood

📊 **Top KPIs** – Big numeric cards for quick insight

📈 **Owner Ranking** – Horizontal bar charts by count & score

🧩 **Stacked Bars** – Risk level by Likelihood

📄 **Detailed Table** – Searchable and exportable

⬇️ **Export Option** – CSV/Print from Power BI

DAX Measures Used

Is Open Count = CALCULATE(COUNT('risks'[RiskID]), 'risks'[IsOpen] = 1)

Sum Severity = SUM('risks'[Severity])

Sum Likelihood = SUM('risks'[Likelihood])

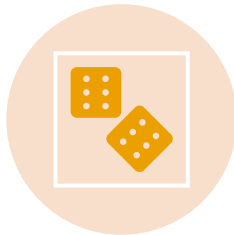Risk Score = SUMX('risks', 'risks'[Severity] * 'risks'[Likelihood])

Tools & Technologies

🧠 **POWER BI DESKTOP**

📁 **EXCEL / CSV (SAMPLE DATASET)**

🎰 **DAX (DATA ANALYSIS EXPRESSIONS)**

🔄 **ETL & DATA CLEANING (POWER QUERY)**

🎛️ **DATA MODELING (RELATIONSHIPS, CALCULATED COLUMNS)**

Outcomes / Insights

Clear visualization of project risk landscape
Faster decision-making for high-risk items
Identification of top risk owners
Improved resource allocation & mitigation planning

Challenges & Learnings

Challenges:

Designing weighted risk score logic

Managing multiple filters without breaking visuals

Maintaining clean data model relationships

Learnings:

Strong understanding of **Power BI interactivity**

Better grasp of **DAX calculations and performance**

Enhanced skill in **business problem-solving using data**

Project Impact

📈 Improved project risk tracking efficiency

🕐 Saved time for executives and managers

💡 Enhanced data-driven decision-making

CERTIFICATE

OF COMPLETION

This certifies that

Ankita Choubey

has successfully completed

Risk Register Dashboards in Power BI

Difficulty Level: BEGINNER

Technologies: powerbi • excel

Completed: October 5, 2025

Certificate ID: VEBDUJ8TDK2V

Instructor: Bartman