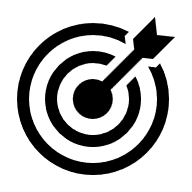
**REPORT TITLE**

**Loan Risk Analysis Dashboard**

**NAME: ANUSHKO SEN**

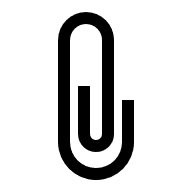
**DATE: 17/10/2025**

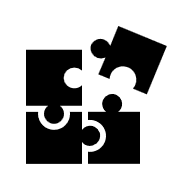
**Dashboard 1:** **Loan Performance and Risk Analysis**

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**Goal:**

Build and present your **Loan Risk Analysis Dashboard** that summarizes insights like loan distribution, default risk, expected loss, recovery rate, and borrower behavior.

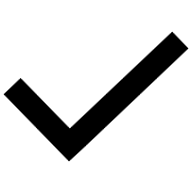
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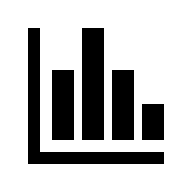
** STEP-BY-STEP PROCESS**

**1. Finalize All Measures:**

Make sure all key DAX measures are created (these drive your visuals):

| **Metric** | **Formula (short form)** |
| --- | --- |
| **Total Loans Issued** | DISTINCTCOUNT(LoanId) |
| **Total Loan Amount** | SUM(Amount) |
| **Active Loans Count** | COUNTROWS(FILTER(Data, Status="Active")) |
| **Defaulted Loans Count** | COUNTROWS(FILTER(Data, Status="Defaulted")) |
| **Default Rate (%)** | DIVIDE([Defaulted Loans Count],[Total Loans Issued],0)\*100 |
| **Average Loan Amount** | AVERAGE(Amount) |
| **Average PD** | AVERAGE(ProbabilityOfDefault) |
| **Total Expected Loss** | SUM(ExpectedLoss) |
| **Recovery Rate (%)** | DIVIDE(SUM(PrincipalRecovery),SUM(PrincipalBalance),0)\*100 |
| **DTI** | AVERAGE(DebtToIncome) |

 Ensure each measure returns a number and works in visuals before proceeding.

** 2. Add Slicers (Filters):**

Add interactive slicers to control what the viewer sees:

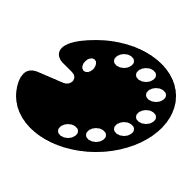
| **Filter** | **Field** | **Type** |
| --- | --- | --- |
| Loan Status | Status | Vertical Slicer |
| Country | Country | Map / List Slicer |
| Loan Duration | LoanDuration | Dropdown |
| Credit Rating | Rating / CreditScore | Dropdown |
| Employment Status | EmploymentStatus | Dropdown |
| Use of Loan | UseOfLoan | Dropdown |
| Loan Date Range | ListedOnUTC | Between Date Slicer |
| Age Range | Age | Between Numeric Slicer |

From **Visualizations pane → Slicer icon** → drag the relevant field to *Field well*.

**📊 3. Add Visuals:**

Now build visuals that summarize your analysis.

| **Visual** | **Chart Type** | **Fields / Description** |
| --- | --- | --- |
| **Total Loans Issued** | KPI Card | [Total Loans Issued] |
| **Total Loan Amount** | KPI Card | [Total Loan Amount] |
| **Defaulted Loans Count** | KPI Card | [Defaulted Loans Count] |
| **Default Rate (%)** | KPI Card | [Default Rate (%)] |
| **Loans by Status** | Pie / Donut Chart | Legend: Status; Values: [Total Loans Issued] |
| **Loans by Credit Rating** | Bar Chart | Axis: Rating; Values: [Total Loans Issued] |
| **Expected Loss vs Expected Return** | Clustered Bar Chart | Axis: Category (e.g., Rating); Values: [Total Expected Loss], [ExpectedReturn] |
| **Geographic Distribution** | Map | Location: Country; Size: [Total Loan Amount] |
| **Loan Purpose Breakdown** | Treemap or Stacked Bar | Group: UseOfLoan; Values: [Total Loan Amount] |
| **Late Loan % Trend** | Line Chart | Axis: ListedOnUTC; Values: [Loans in Late Category (%)] |

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**4. Design and Layout:**

Make your report look clean and professional:

* **Arrange visuals** neatly in a grid (use align and distribute tools).
* **Use a consistent color theme** (Power BI → *View → Themes*).
* **Add section headers** like “Portfolio Overview,” “Risk Metrics,” “Geographic Insights.”
* Use **cards** on top for KPIs, charts.
* **Resize slicers** and pin them on the left or top for filtering.

**5. Add Report Title and Branding:**

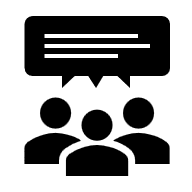
At the top of your page:

* Add a **Text Box** → write your report title:

**Loan Risk Analysis Dashboard***(2025)*

* Add your **name** and **date** below it (optional).

You can also insert your **logo** using → *Insert → Image*.

 **6. Review & Publish:**

1. Review all visuals — ensure slicers work correctly.
2. Save your report (.pbix file).
3. Share or export your dashboard:
   * **Share Link** → for teammates.
   * **Export → PDF** → for submission or presentation.