

Case study: Power BI

Creating Business Intelligence (BI) solutions is what we do daily, allowing us to quickly identify the most valuable use cases. However, for companies that would benefit the most from BI solutions—many of which have yet to implement them—it can be difficult to visualize the advantages, how it could streamline operations, and ultimately reduce costs.

To bridge this gap, we have compiled real-world case studies to demonstrate the transformative power of Power BI in various industries. From manufacturing and logistics to retail and human resources, these scenarios showcase how a well-implemented BI solution can revolutionize decision-making processes, providing accurate and actionable insights.

All the described scenarios represent real-life solutions that we have built for our clients. We hope this article inspires you to leverage BI solutions for improved data flow, efficiency, and strategic planning in your company.

Integrating OEE Indicators with Power BI



Challenge:

A global leader in the manufacturing of spreads and plant-based foods needed a comprehensive BI tool for OEE (Overall Equipment Effectiveness) analysis. The primary challenge was managing data from 15 factories worldwide, each with different reporting systems, leading to inconsistencies in performance evaluation.

Solution:

- Integrated disparate reporting systems using Power Query.
- Standardized OEE indicators to ensure consistency across all production facilities.
- Developed an interactive Power BI dashboard to display machine efficiency, downtime, and performance trends.

Impact:

- Enabled real-time monitoring of machine utilization.
- Improved efficiency by identifying areas for optimization.
- Provided comparative analytics between production lines and entire factories.
- Allowed predictive analysis for proactive maintenance and performance improvement.

Business Intelligence in Logistic Services



Client: Major Logistics Provider**Challenge:**

A leading logistics company operating across Mauritius required a unified BI tool to track budget execution and sales-related costs across various branches and companies. The client struggled with inconsistent reporting, making financial planning and cost monitoring inefficient.

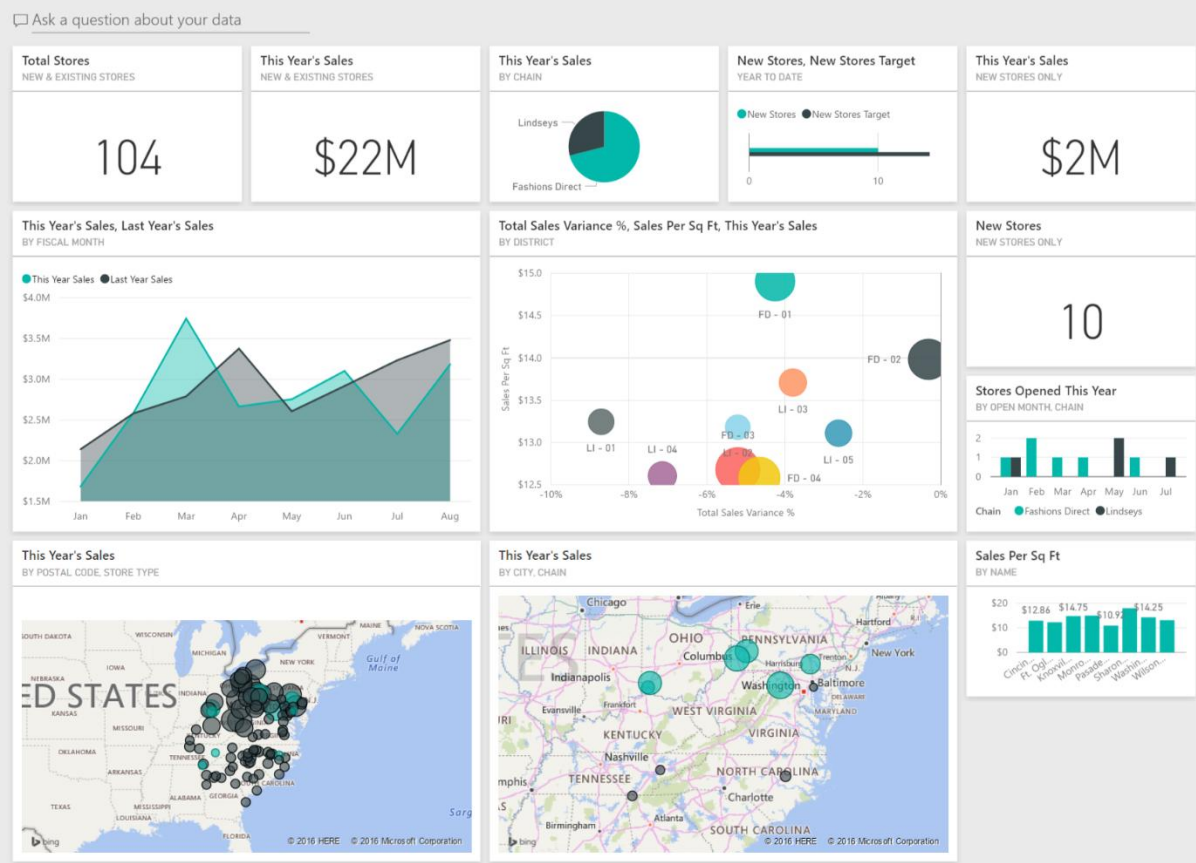
Solution:

- Developed a Power BI report integrating multiple financial data sources.
- Enabled performance tracking, forecasting, and optimization analyses.
- Implemented row-level security to ensure appropriate data access across organizational levels.

Impact:

- Provided transparency in financial control and expense tracking.
- Reduced reporting errors and streamlined budget planning.
- Allowed for real-time decision-making and cost optimization.

Power BI Implementation in a Store Chain



Client: Retail Store Chain (Mauritius)

Challenge:

The client required a robust BI tool to analyze sales performance across 70 stores, including company-owned and franchise outlets. The absence of centralized reporting resulted in inefficiencies and limited visibility into sales trends.

Solution:

- Automated data integration from a SQL database.
- Created an interactive Power BI report with KPIs such as budget execution, sales trends, and margin analysis.
- Implemented real-time data refresh (8 times per day) for up-to-date reporting.

Impact:

- Enhanced visibility into sales performance across multiple locations.
- Improved decision-making through trend analysis and forecasting.
- Allowed for better marketing campaign evaluations and ROI analysis.

Fast Invoice Management with Power BI



Client: Business Intelligence & IT Services Provider

Challenge:

Managing invoices for various international cloud services and subscriptions posed challenges in cost tracking and financial reporting. Manual processes were time-consuming and prone to errors.

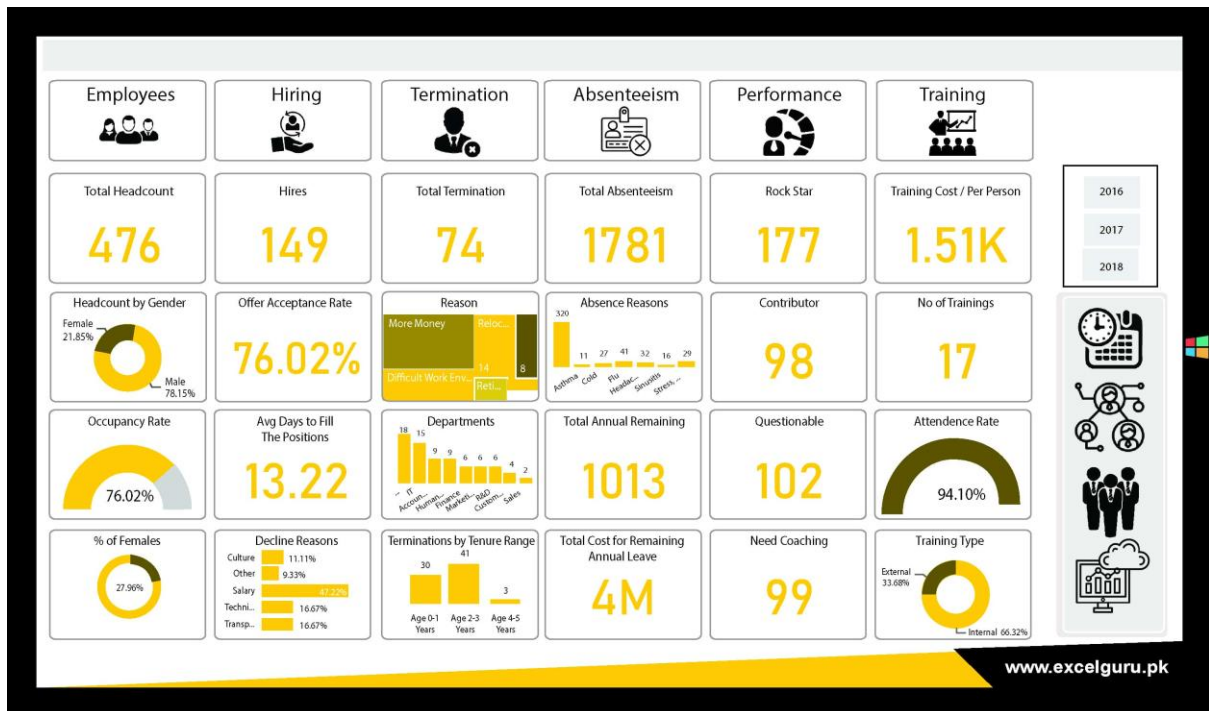
Solution:

- Developed an automated Power BI dashboard for invoice consolidation.
- Used Python scripts and Power Automate to streamline data collection and processing.
- Integrated exchange rate tracking from the National Bank of Mauritius for currency conversion.

Impact:

- Reduced time spent on invoice tracking and reconciliation.
- Improved cost allocation and financial planning.
- Simplified expense reporting for internal and client use.

Human Resources Analytics with Power BI



Client: Inspection, Verification & Certification Company

Challenge:

The client required an advanced BI tool to monitor HR management and financial performance. The goal was to increase budget supervision, track employment trends, and assess profitability per employee.

Solution:

- Integrated HR and financial data into a centralized Power BI reporting tool.
- Developed DAX-based calculations to analyze profit per employee.
- Implemented row-level security to ensure data privacy and compliance with GDPR.

Impact:

- Automated HR and financial calculations, eliminating manual errors.
- Provided real-time insights into workforce allocation and budget execution.
- Enabled strategic decision-making for workforce planning and profitability enhancement.

Expanding Power BI Beyond Standard Reports

