







Power Bl vs. Real-Time Dashboards It's Not Just About Looks





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Microsoft Fabric Analytics Engineer Associate Study Guide

Hands-on Practice and Expert Tips for Acing the DP-600 Certification Exam

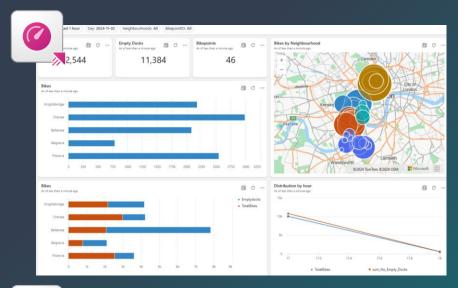


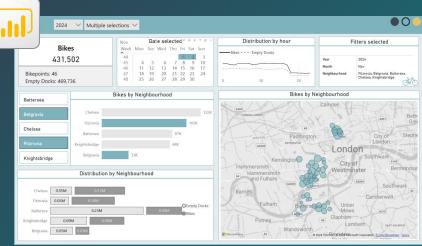
Brian Bønk & Valerie Junk



Real-Time vs Power Bl

- Power BI and Real-Time Dashboards are both great options, each designed for different types of data needs and scenarios.
- Power BI: Built for deep insights, complex transformations, and interactive reporting.
- Real-Time Dashboards in Fabric: Ideal for eventdriven, near real-time monitoring with immediate data updates and alerting.





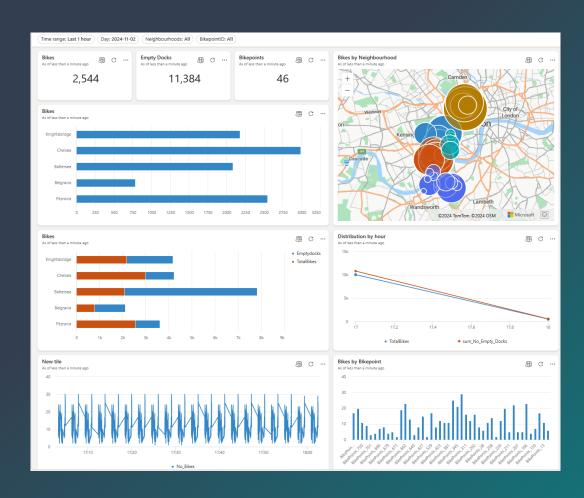


Real-Time Dashboard

- "Always on" continuous data tracking
- High-frequency data updates
- Near real-time alerting

• Licensing: Fabric Capacity

• Perfect for monitoring any scenario with constantly updating data.



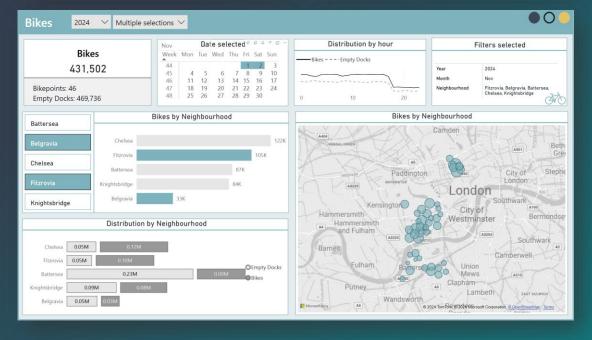


Power BI Report

- User experience (tailored insights)
- Easy Interaction & filter selection
- DAX
- Data visualization

Licensing: Pro, PPU, E5 or F64+







Use Cases

- (In depth) Data Analysis
 - Financial Analysis
 - Sales & Marketing
 - Human Resource Analysis
 - Supply Chain Optimization
 - Compliance
- What if Analysis
- Patterns & Trends

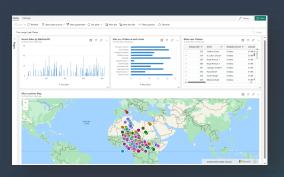


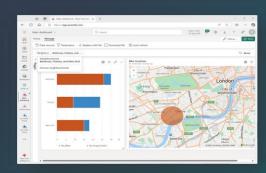


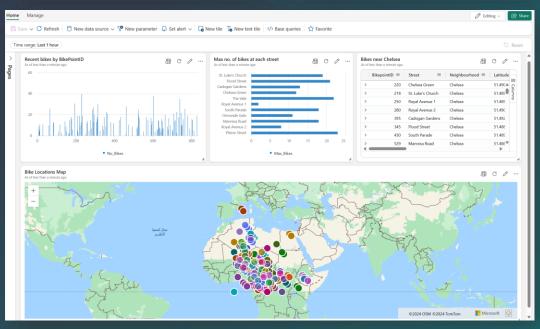
Real-Time Dashboard

- Visuals build for speed
- Manual interaction and filtering
- KQL
- Data insights and actions

Free – only consumes capacity units









Use Cases

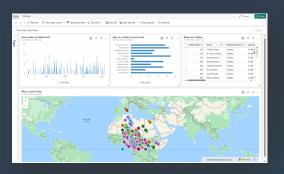
- Short time to insights
 - Immediate status of trends and data points
 - Near real-time analytics
 - Outlier detection and action
 - Graph analysis
 - Telco, windmills, racing etc.
- Historical trends
- Windowing



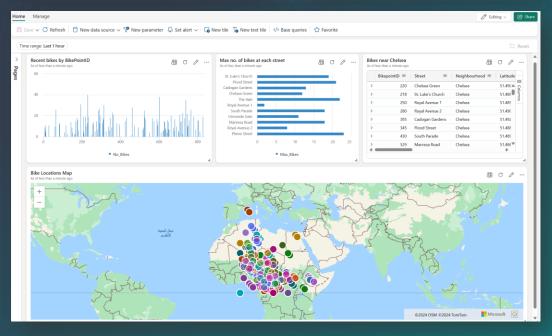


User Experience

- Fixed reporting with fixed layouts
- Limited set of standard visuals
- Plotly extension for Python based reporting
- Built-in visuals at query time
- Cross filtering must be done manually



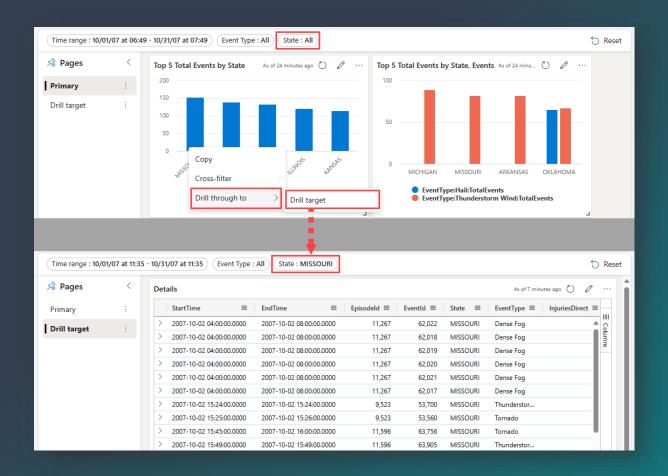






Interaction & filter selection

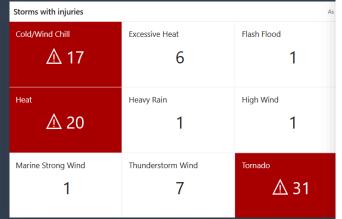
- All filters must be created manually
- Extensive date/time filtering
- Drill through options





KQL (& Dataviz)

- Datasets somewhat reusable
- Limited set of standard visuals
- Some conditional formatting (colours and icons)



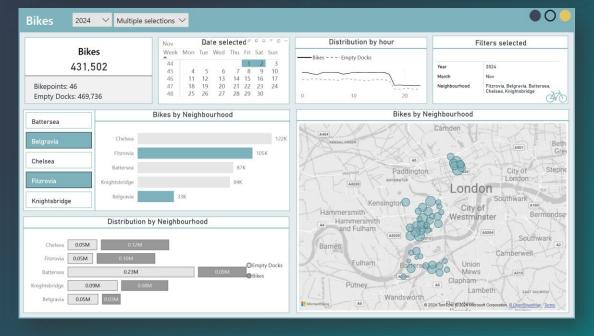
| Storms with injuries ① 💍 🖉 | | | | | |
|----------------------------|---------------------|---------|---------|--|--|
| | EventType ≡ | Count ≡ | | | |
| > | Cold/Wind Chill | 17 | 00 ≣ | | |
| > | Excessive Heat | 6 | Columns | | |
| > | Flash Flood | 1 | S | | |
| > | Hail | 1 | | | |
| > | Heat | 20 | | | |
| > | Heavy Rain | 1 | | | |
| > | High Wind | 1 | | | |
| > | Hurricane (Typhoon) | 1 | | | |
| > | Marine Strong Wind | 1 | | | |
| > | Thunderstorm Wind | 7 | | | |
| > | Tornado | 31 | | | |
| > | Wildfire | 8 | | | |
| > | Winter Weather | 2 | | | |
| | | | | | |



User Experience

- Personalize reports
- Visuals can be created for a specific audience
- Easy to use and interactive

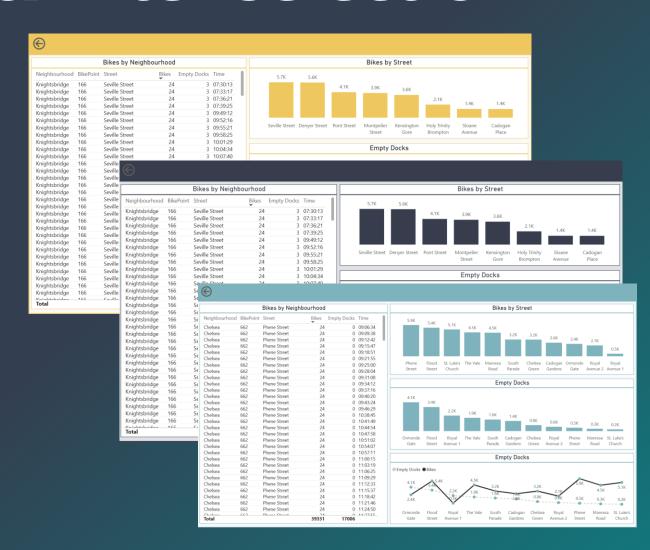






Interaction & filter selection

- Click-to-filter visuals (cross-filtering & cross-highlighting)
- Slicers for date, category, and hierarchical filters.
- Drill-through (and bookmarks) for guided analysis.



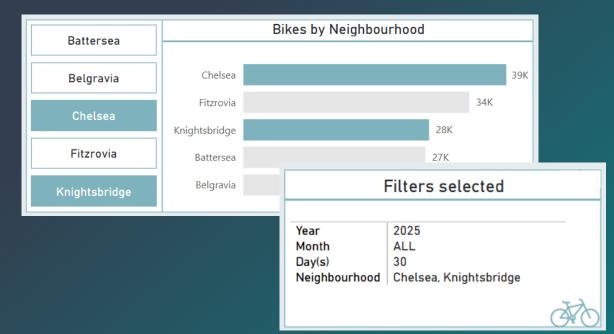


DAX (& Dataviz)

- DAX measures (reusable)
- Wide range of native visuals (bar, line, pie, KPI, maps).
- Conditional formatting for action driven storytelling.















Feature comparison

Real-Time vs Power Bl

| Feature | Real-Time Dashboards | Power BI |
|---------------|-----------------------------|--------------------------|
| Refresh Rate | Near real-time (always on) | Scheduled refresh |
| Interactivity | Limited interactive | Interactivity |
| Visualization | Limited | Highly customizable |
| Alerting | Teams, email or Fabric item | Teams & email |
| Use Case | Event data, traffic, IoT | In depth & action-driven |

POWER BI vs REAL-TIME DASHBOARDS













DYNAMIC TIME RANGE FILTERING THE
EVENTHOUSE
COST IS THE
ONLY CU USAGE

LIMITED
GALLERY. CAN
USE PLOTLY FOR
CUSTOM VIZ

ONLY KQL DATA AND IN "DIRECT QUERY" SHARING REQUIRES ACCESS TO THE KQL DATA



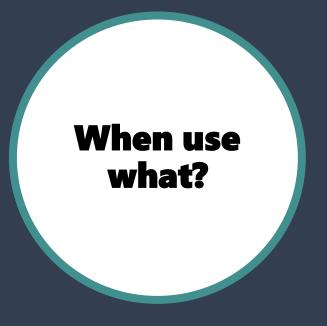
EASY FILTER ON EVERYTHING

Power Bl Licences RICH GALLERY
WITH EXTENSIVE
CUSTOMIZATION
CAPABILITIES

IMPORT, DIRECT QUERY, DIRECT LAKE EASY SHARING BOTH INTERNAL AND EXTERNAL

The two tools are complimenting each other and have different purposes

When use what?



| Question | Tool | |
|--|------------------------|--|
| • Real-time updates? | • Real-Time Dashboards | |
| • In-depth exploration? | • Power BI | |
| • Alerting critical? | • Real-Time Dashboards | |
| Complex, multi-layered report? | • Power BI | |

Try it yourself!

- 8-step tutorial with sample data
- Create a Real-time dashboard
- Import results in Power BI





Takeaway

Real-Time Dashboards

- Always on, constantly changing
- Events, IoT sensors, Traffic
- High-frequency data updates

Power BI

- Strategic and Detailed Analysis
- In-depth data exploration with advanced visualizations and filtering





Have you seen the dragon?



Help him!



Thank you



Session eval <

