

# Power BI; Wonderful Things You Can Do

REZA RAD



# About Reza Rad

DW/BI Consultant, Mentor, Trainer

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|                                                                                     |                                                                              |
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# Agenda

- ▶ Power BI Introduction
- ▶ Power BI Desktop
- ▶ Power BI Website



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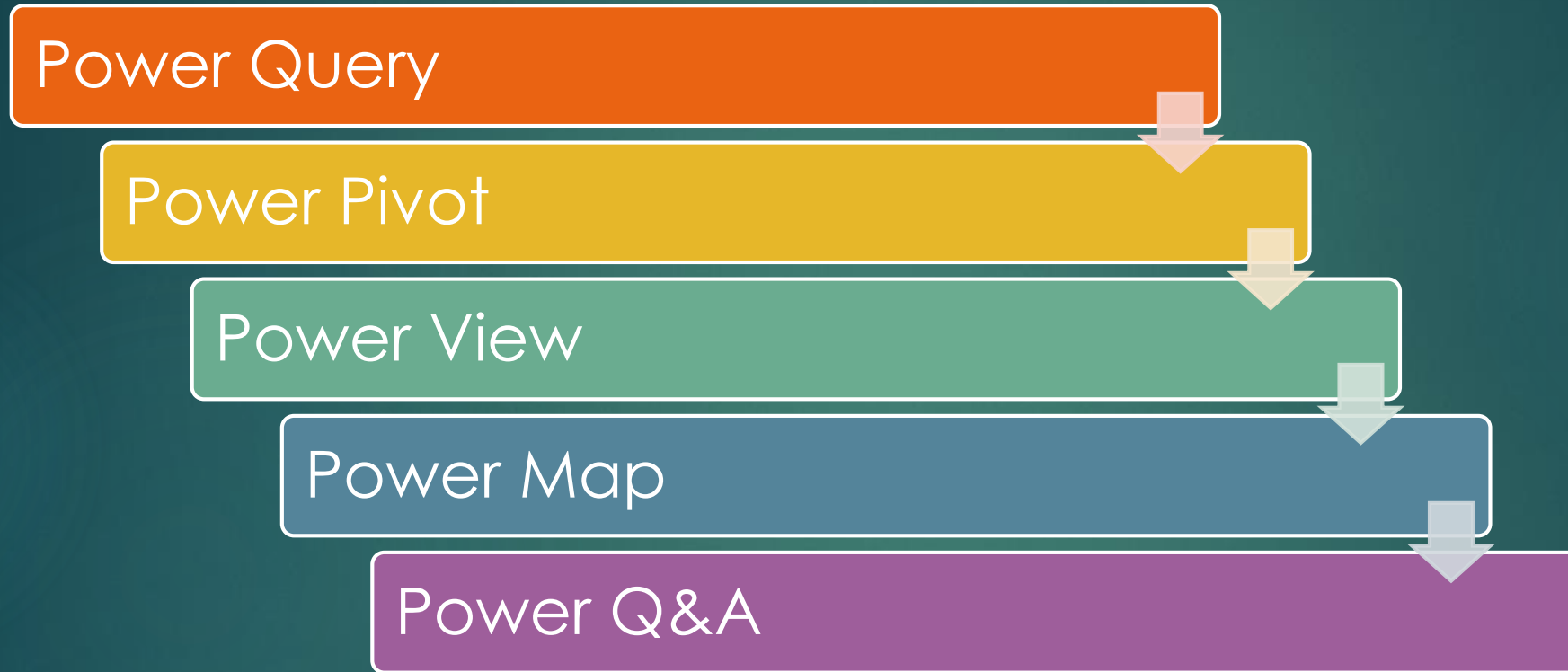


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# Power BI Introduction



# Power BI



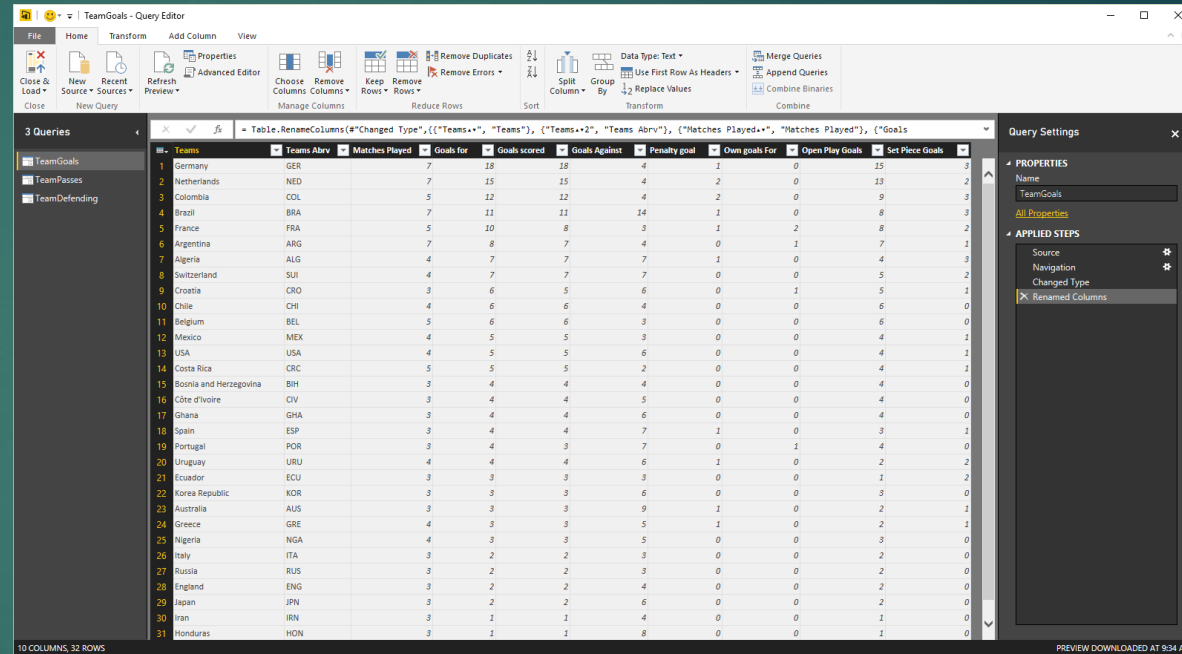
# Power Query: ETL

Self-Service ETL

Functional Language

Online Search

Share Queries



The screenshot displays the Power Query Editor interface with a table of football match data. The table has 10 columns and 32 rows. The columns are: Teams, Teams Abbr, Matches Played, Goals for, Goals scored, Goals Against, Penalty goal, Own goals For, Open Play Goals, and Set Piece Goals. The rows list various national teams and their performance metrics.

| Teams                      | Teams Abbr | Matches Played | Goals for | Goals scored | Goals Against | Penalty goal | Own goals For | Open Play Goals | Set Piece Goals |
|----------------------------|------------|----------------|-----------|--------------|---------------|--------------|---------------|-----------------|-----------------|
| 1. Germany                 | GER        | 7              | 18        | 18           | 4             | 1            | 0             | 25              | 3               |
| 2. Netherlands             | NED        | 7              | 15        | 15           | 4             | 2            | 0             | 13              | 2               |
| 3. Colombia                | COL        | 5              | 12        | 12           | 4             | 2            | 0             | 9               | 3               |
| 4. Brazil                  | BRA        | 7              | 11        | 11           | 14            | 1            | 0             | 8               | 3               |
| 5. France                  | FRA        | 5              | 10        | 8            | 3             | 1            | 2             | 8               | 2               |
| 6. Argentina               | ARG        | 7              | 8         | 7            | 4             | 0            | 1             | 7               | 1               |
| 7. Algeria                 | ALG        | 4              | 7         | 7            | 7             | 1            | 0             | 4               | 3               |
| 8. Switzerland             | SUI        | 4              | 7         | 7            | 7             | 0            | 0             | 5               | 2               |
| 9. Croatia                 | CRO        | 3              | 6         | 5            | 6             | 0            | 1             | 5               | 1               |
| 10. Chile                  | CHI        | 4              | 6         | 6            | 4             | 0            | 0             | 6               | 0               |
| 11. Belgium                | BEL        | 5              | 6         | 6            | 3             | 0            | 0             | 6               | 0               |
| 12. Mexico                 | MEX        | 4              | 5         | 5            | 3             | 0            | 0             | 4               | 1               |
| 13. USA                    | USA        | 4              | 5         | 5            | 6             | 0            | 0             | 4               | 1               |
| 14. Costa Rica             | CRC        | 5              | 5         | 5            | 2             | 0            | 0             | 4               | 1               |
| 15. Bosnia and Herzegovina | BIH        | 3              | 4         | 4            | 4             | 0            | 0             | 4               | 0               |
| 16. Côte d'Ivoire          | CIV        | 3              | 4         | 4            | 5             | 0            | 0             | 4               | 0               |
| 17. Ghana                  | GHA        | 3              | 4         | 4            | 6             | 0            | 0             | 4               | 0               |
| 18. Spain                  | ESP        | 3              | 4         | 4            | 7             | 1            | 0             | 3               | 1               |
| 19. Portugal               | POR        | 3              | 4         | 3            | 7             | 0            | 1             | 4               | 0               |
| 20. Uruguay                | URU        | 4              | 4         | 4            | 6             | 1            | 0             | 2               | 2               |
| 21. Ecuador                | ECU        | 3              | 3         | 3            | 3             | 0            | 0             | 1               | 2               |
| 22. Korea Republic         | KOR        | 3              | 3         | 3            | 6             | 0            | 0             | 3               | 0               |
| 23. Australia              | AUS        | 3              | 3         | 3            | 9             | 1            | 0             | 2               | 1               |
| 24. Greece                 | GRE        | 4              | 3         | 3            | 5             | 1            | 0             | 2               | 1               |
| 25. Nigeria                | NGA        | 4              | 3         | 3            | 5             | 0            | 0             | 3               | 0               |
| 26. Italy                  | ITA        | 3              | 2         | 2            | 3             | 0            | 0             | 2               | 0               |
| 27. Russia                 | RUS        | 3              | 2         | 2            | 3             | 0            | 0             | 2               | 0               |
| 28. England                | ENG        | 3              | 2         | 2            | 4             | 0            | 0             | 2               | 0               |
| 29. Japan                  | JPN        | 3              | 2         | 2            | 6             | 0            | 0             | 2               | 0               |
| 30. Iran                   | IRN        | 3              | 1         | 1            | 4             | 0            | 0             | 1               | 0               |
| 31. Honduras               | HON        | 3              | 1         | 1            | 8             | 0            | 0             | 1               | 0               |



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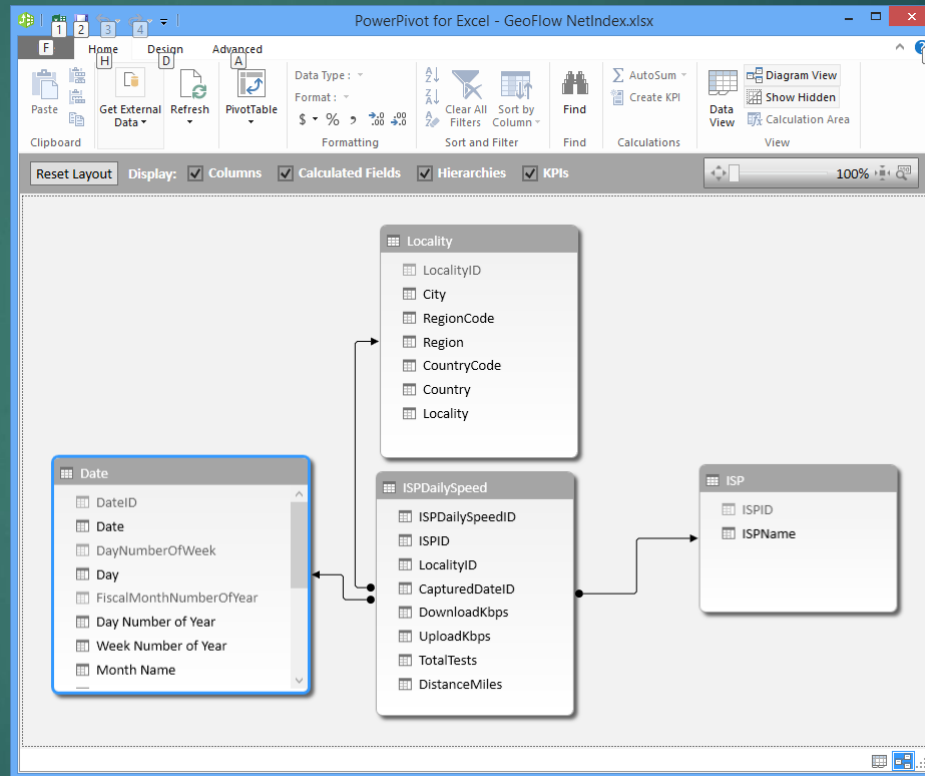


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# Power Pivot: Tabular Model

Tabular Model  
Calculated Measures  
Hierarchies  
DAX  
xVelocity In-Memory



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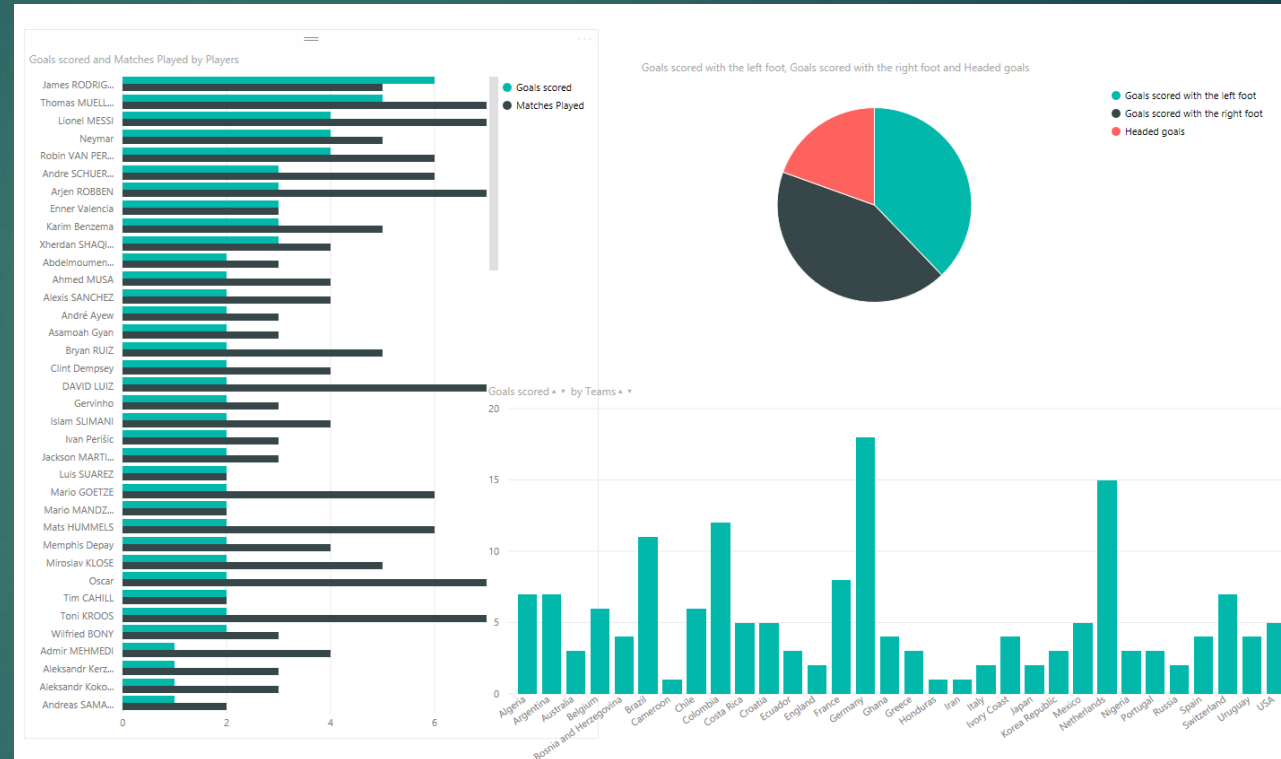


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# Power View: Visualization

Dashboards  
Reports  
Interactive UI  
Filters  
Scatter with  
Play Axis



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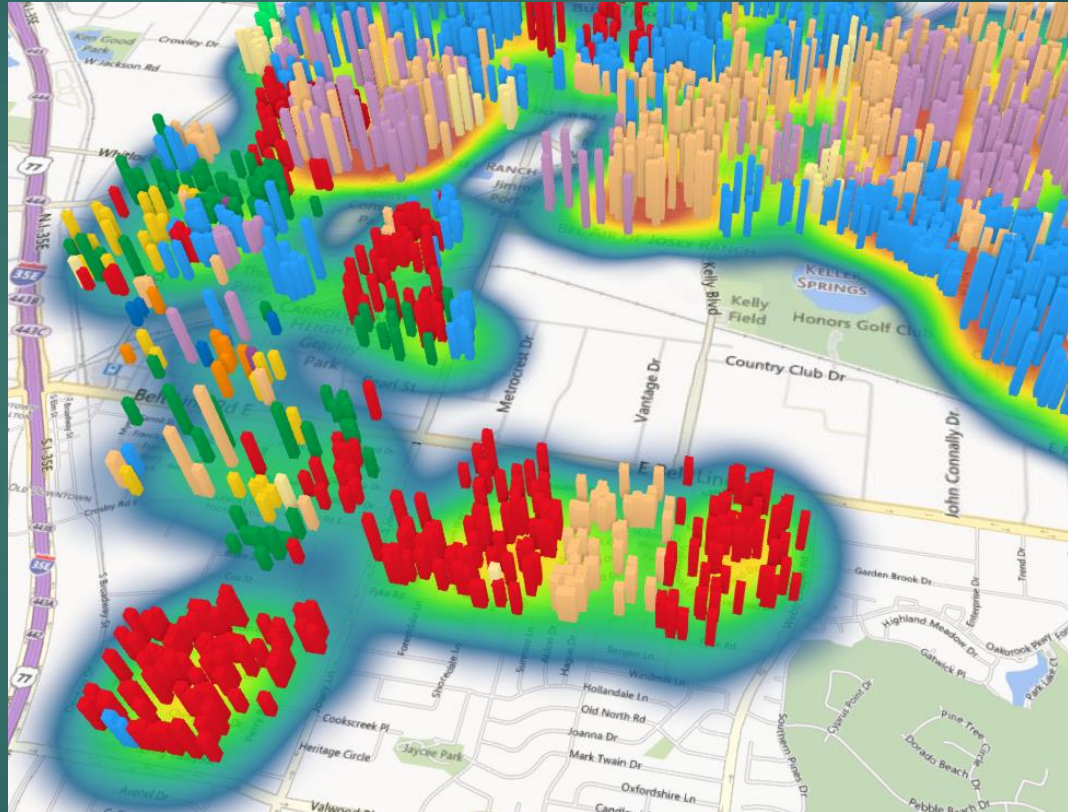
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# Power Map: Geographical Visualization

Geospatial  
Multiple Layers  
3D Visualization  
Tours



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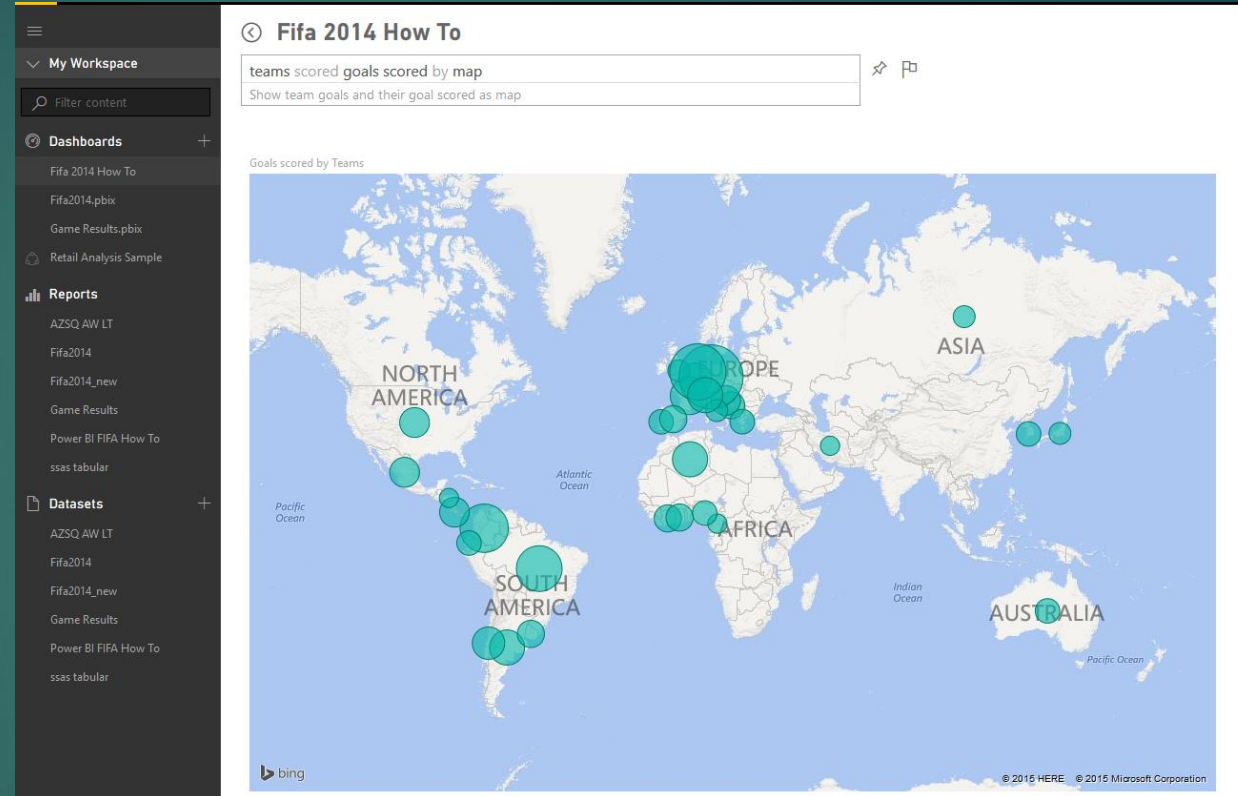


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# Power Q&A

Ask Questions  
Response on  
Visualization  
Tools



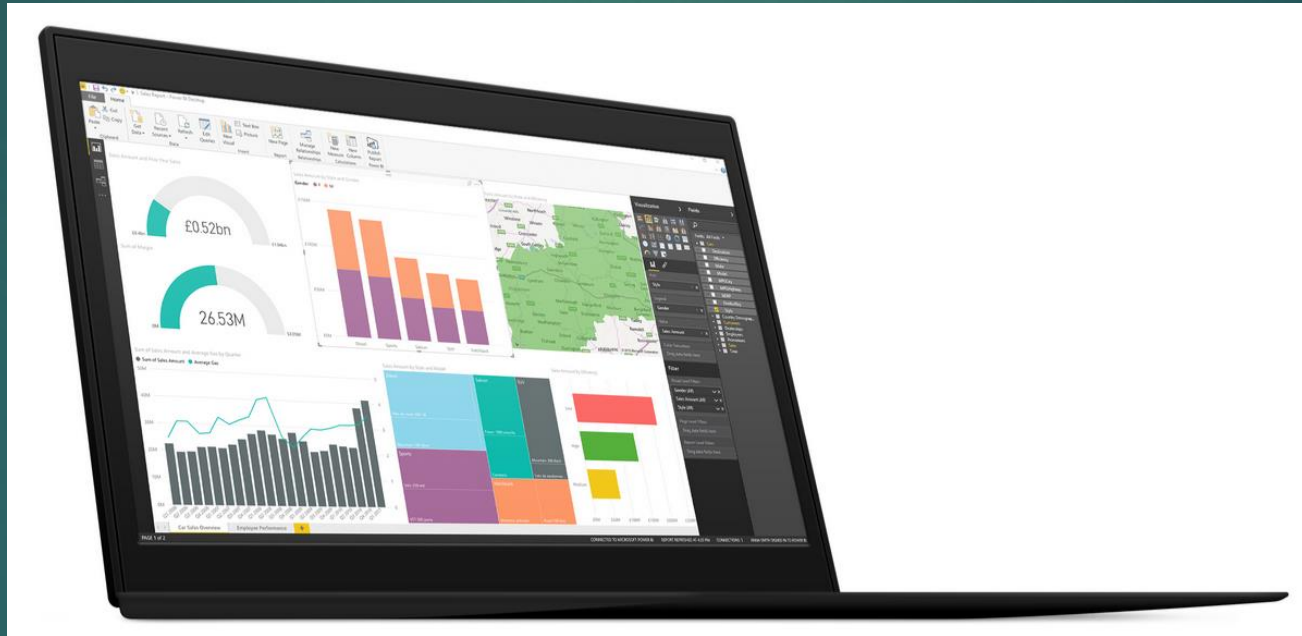
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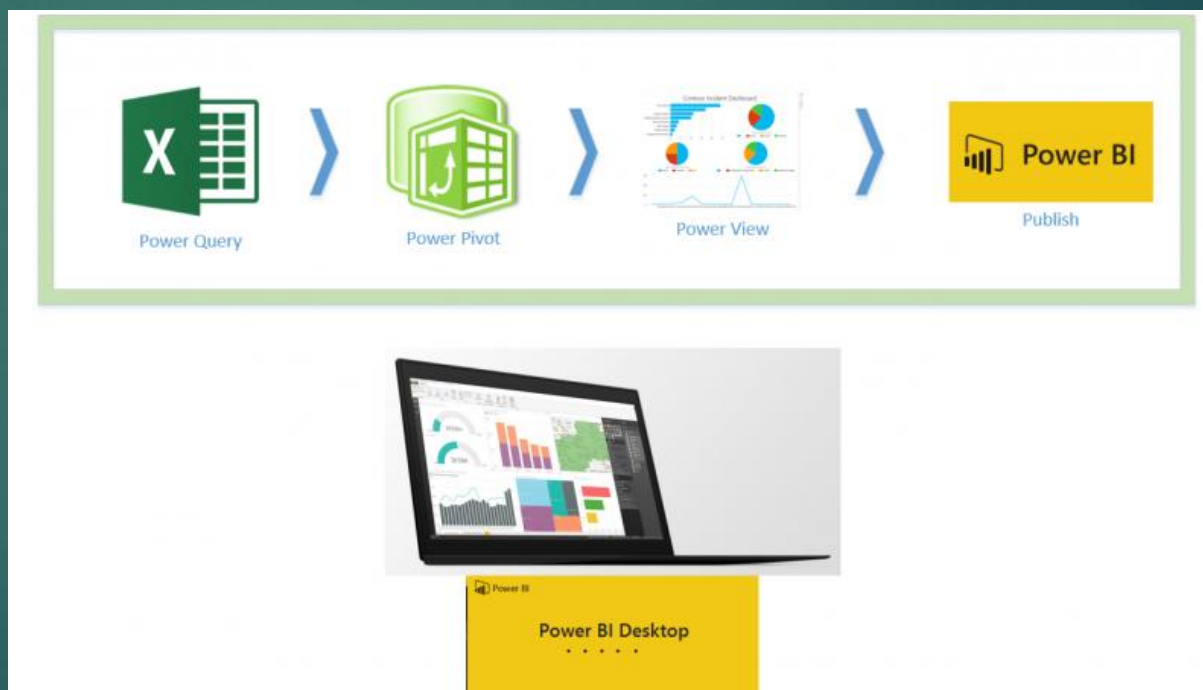
# Power BI Desktop



# What Is Power BI Desktop

- ▶ Integration of Three Components

- ▶ Power Query
- ▶ Power Pivot
- ▶ Power View



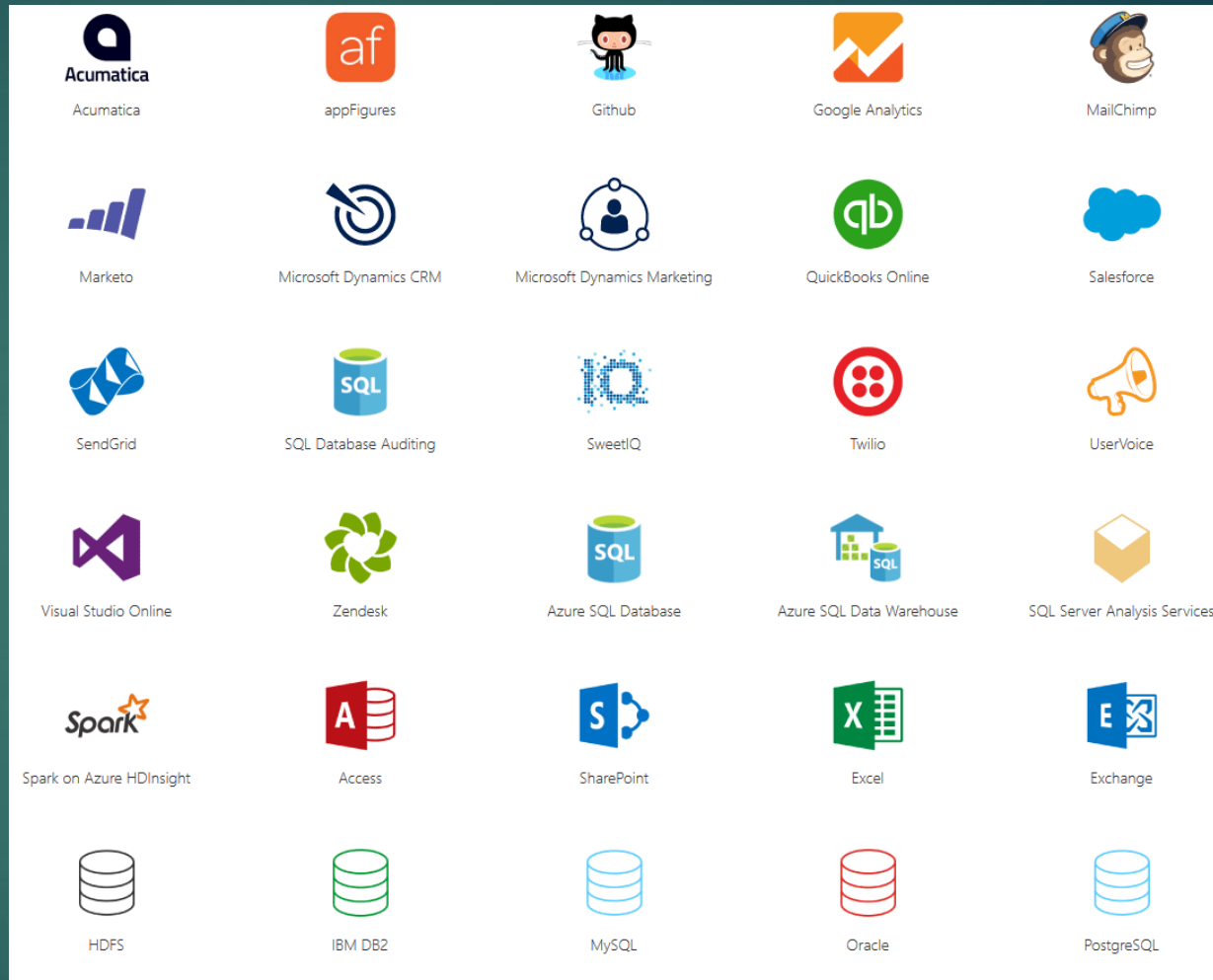
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# Get Data



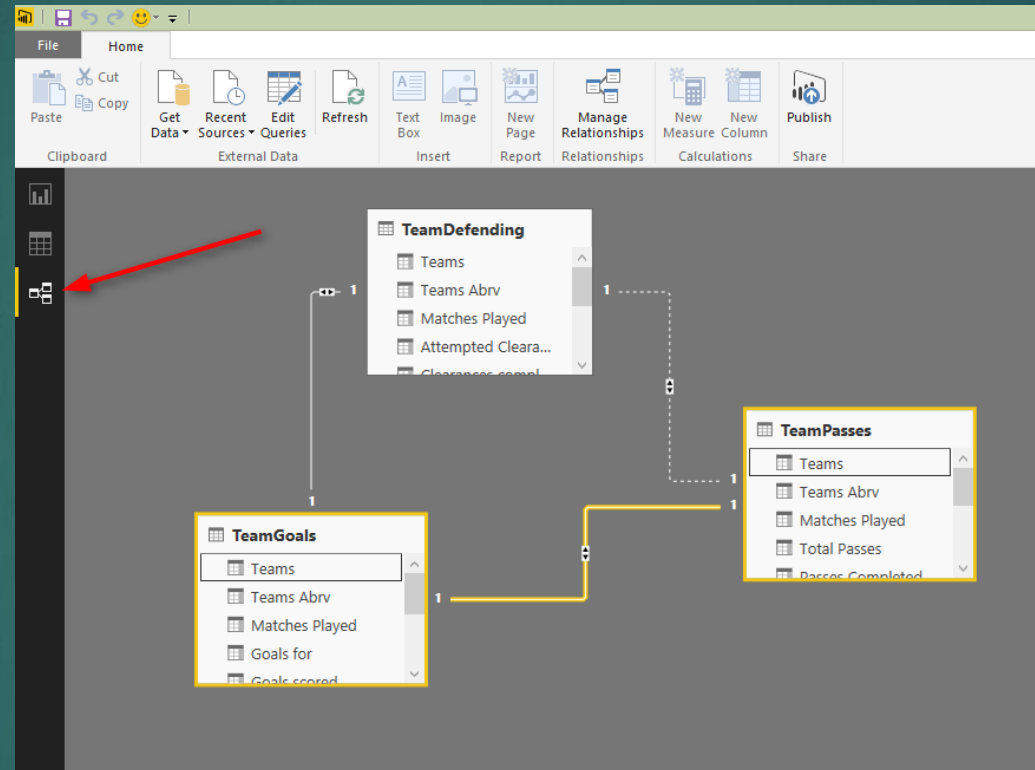
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# Model Data



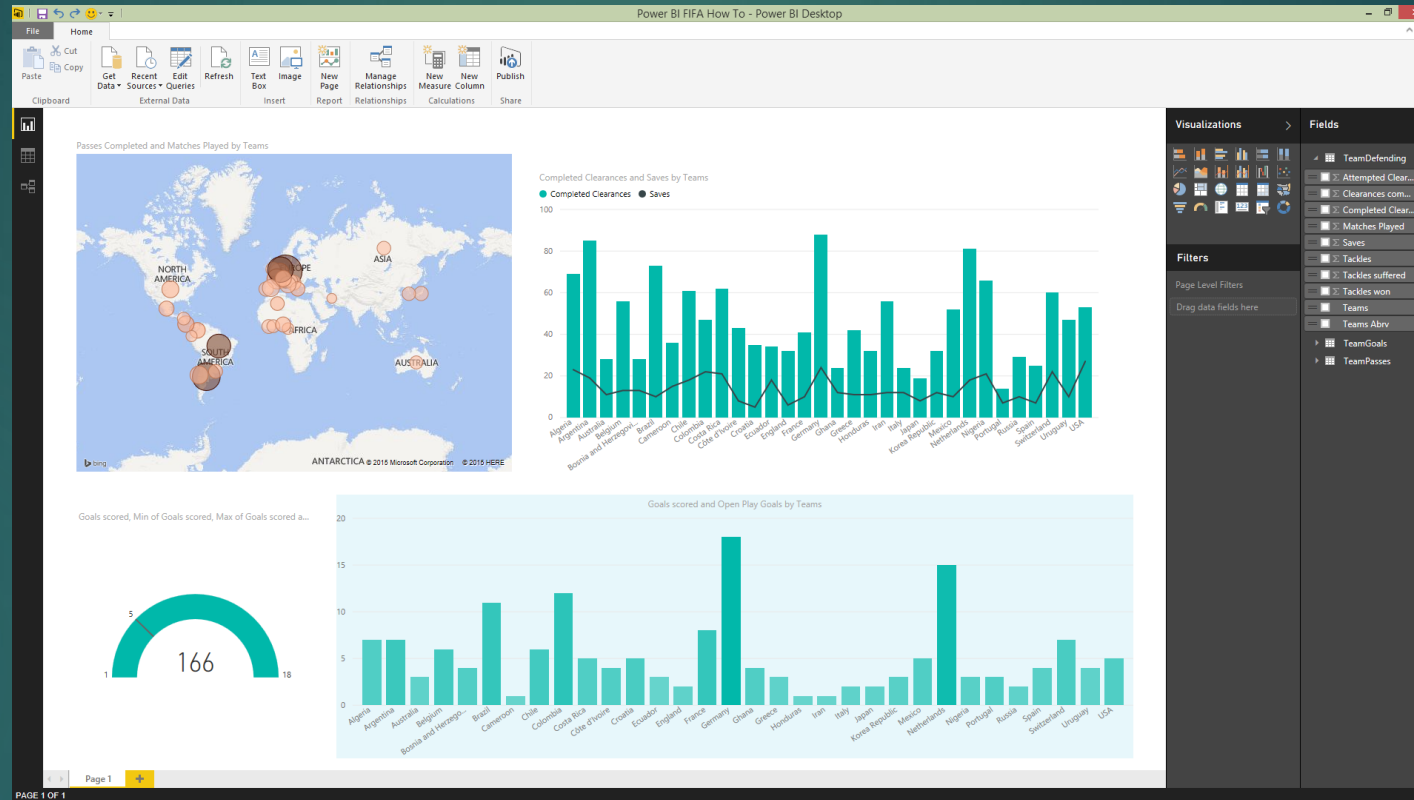
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# Visualize Data



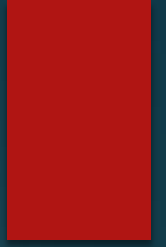
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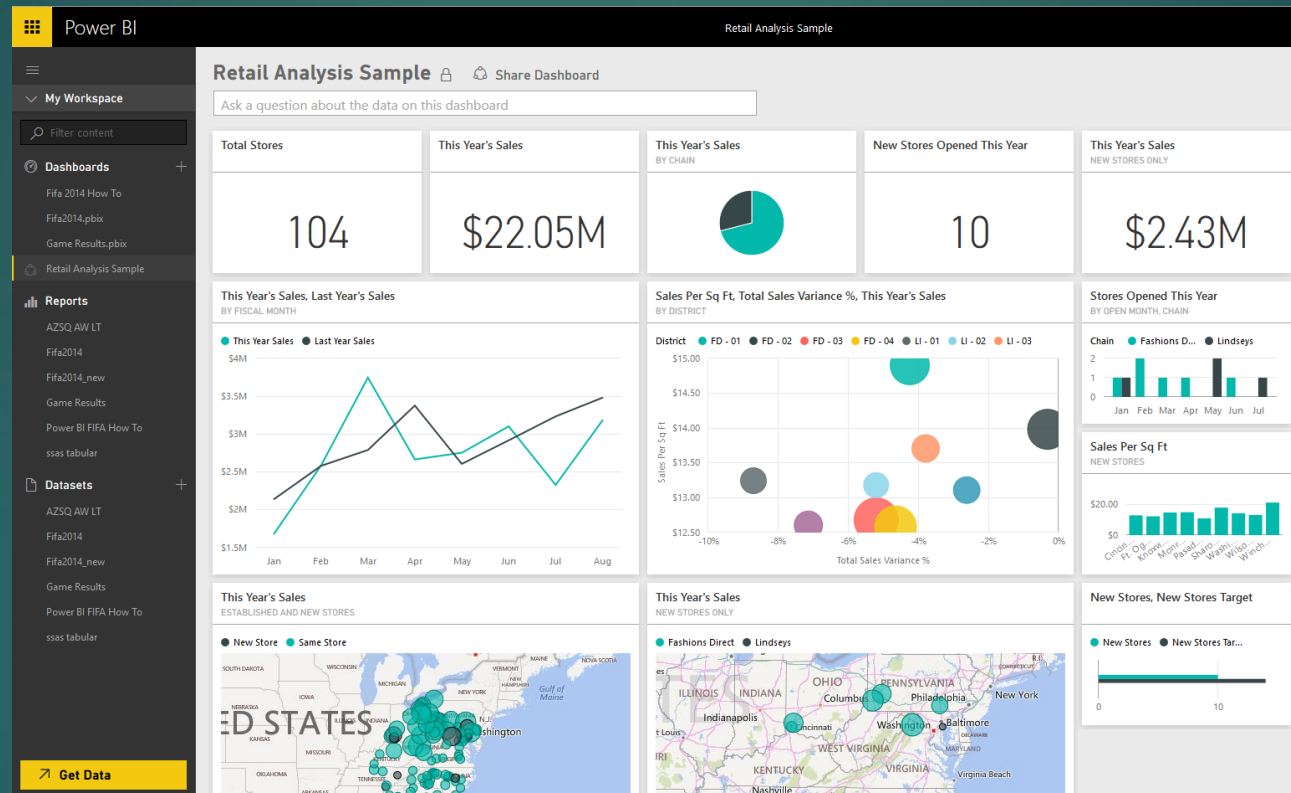
# Power BI Desktop Demo



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# Power BI Website



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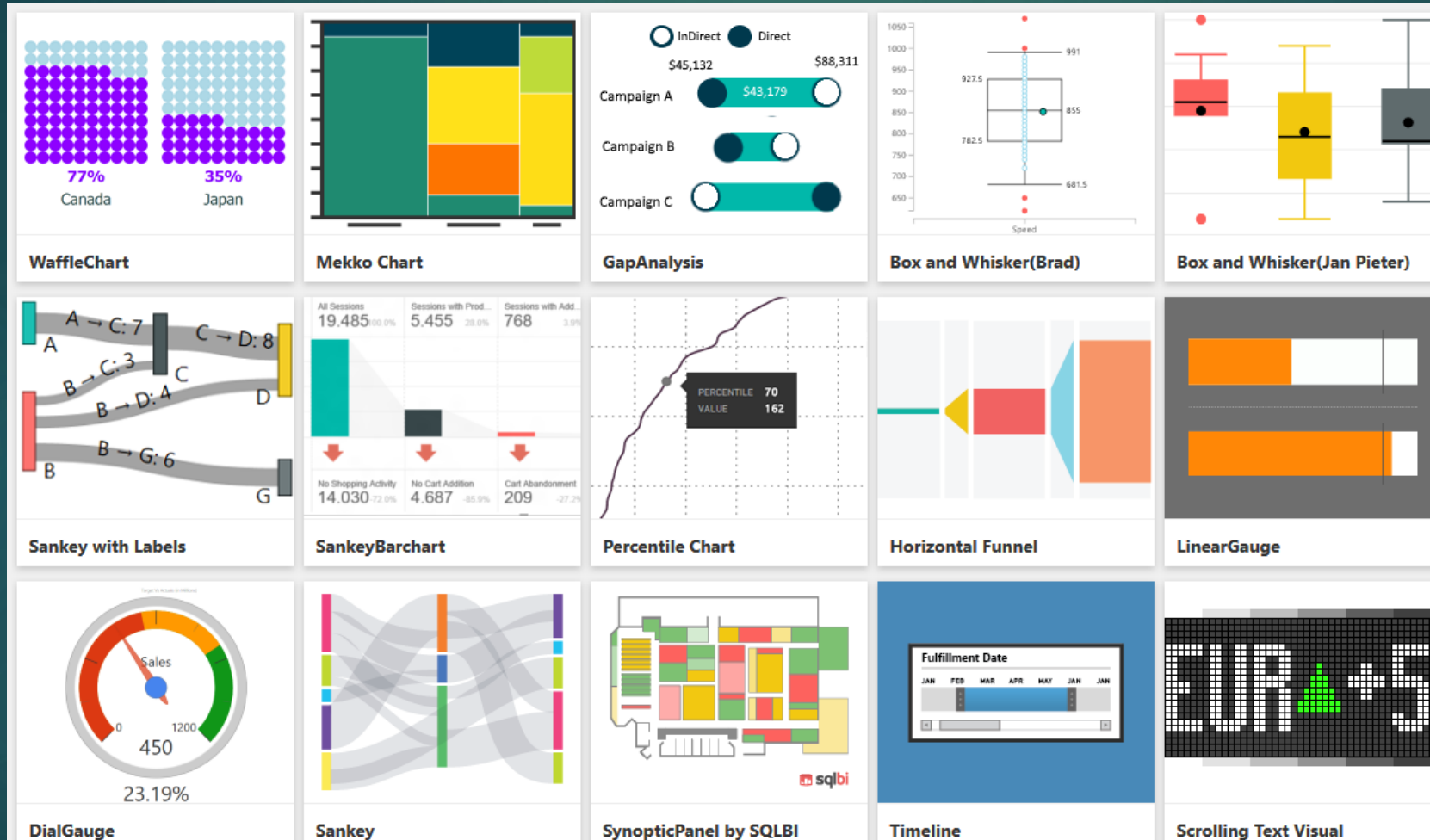
<http://www.radacad.com>



# Power BI: Mobile Apps



# Custom Visuals



# References to Study

- ▶ Power BI from Rookie to Rockstar Online Book

<http://www.radacad.com/category/power-bi-from-rookie-to-rockstar>

- ▶ **Power BI Training**

<http://www.radacad.com/power-bi-training>

- ▶ Power BI website

<https://support.powerbi.com/>

- ▶ Be Fitbit BI Developer with Power BI:

<http://www.radacad.com/tag/be-fitbit-bi-developer>



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# Questions?



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