**REFERENCES DA-100**

This document is work in progress, please visit back and pull the updated version soon.

**MODULE 1 - Getting Started with Data Analytics**

DA-100 Discover data analysis

<https://docs.microsoft.com/en-us/learn/modules/data-analytics-microsoft/>

DA-100 Get started building with Power BI

<https://docs.microsoft.com/en-us/learn/modules/get-started-with-power-bi/>

**MODULE 2 - Get Data in Power BI**

DA-100 Prepare data for analysis

<https://docs.microsoft.com/en-us/learn/modules/get-data/>

DA-100 Clean, Transform, and load data in Power BI

<https://docs.microsoft.com/en-us/learn/modules/clean-data-power-bi/>

**MODULE 3**

DA-100 Clean, transform, and load data in Power BI

<https://docs.microsoft.com/en-us/learn/modules/clean-data-power-bi/>

**MODULE 4**

DA-100 Design a data model in Power BI

<https://docs.microsoft.com/en-us/learn/modules/design-model-power-bi/>

**MODULE 5**

DA-100 Introduction to creating measures using DAX in Power BI

<https://docs.microsoft.com/en-us/learn/modules/create-measures-dax-power-bi/>

**MODULE 6**

DA-100 Optimize a model for performance in Power BI

<https://docs.microsoft.com/en-us/learn/modules/create-measures-dax-power-bi/>

**MODULE 7**

DA-100 Work with Power BI visuals

<https://docs.microsoft.com/en-us/learn/modules/visuals-power-bi/>

DA-100 Create a data-drive story with Power BI

<https://docs.microsoft.com/en-us/learn/modules/data-driven-story-power-bi/>

**MODULE 8**

DA-100 Create dashboards in Power BI

<https://docs.microsoft.com/en-us/learn/modules/create-dashboards-power-bi/>

**MODULE 9**

DA-100 Create Paginated Reports

<https://docs.microsoft.com/en-us/learn/modules/create-paginated-reports-power-bi/>

**MODULE 10**

DA-100 Perform analytics in Power BI

<https://docs.microsoft.com/en-us/learn/paths/perform-analytics-power-bi/>

Work with AI visuals

<https://docs.microsoft.com/en-us/learn/modules/ai-visuals-power-bi/>

**MODULE 11**

DA-100 Create and manage Workspaces in Power BI

<https://docs.microsoft.com/en-us/learn/modules/create-manage-workspaces-power-bi/>

**MODULE 12**

DA-100 Manage datasets in Power BI

<https://docs.microsoft.com/en-us/learn/modules/manage-datasets-power-bi/>

**MODULE 13**

DA-100 Implement row-level security

<https://docs.microsoft.com/en-us/learn/modules/row-level-security-power-bi/>

**RESOURCES:**

* Foros y tutoriales para consulta PBI
  + [Power BI documentation - Power BI | Microsoft Docs](https://docs.microsoft.com/en-us/power-bi/)
  + [Home - Microsoft Power BI Community](https://community.powerbi.com/)
  + [Home - Power BI User Group (pbiusergroup.com)](https://www.pbiusergroup.com/home)
  + [Power BI Days – Free learning by the community, for the community](https://www.powerbidays.com/)
  + [Microsoft Power BI | Channel 9 (msdn.com)](https://channel9.msdn.com/posts/Microsoft-Power-BI)
  + [Guy in a Cube (Power BI Training and More)](https://guyinacube.com/)
  + [Power BI Tutorials & How To - Your leading resource for Microsoft Power BI tutorials](https://www.powerbitutorial.org/)
* Best practices para reportes y dashboards.
  + [Storytelling with Data: A Data Visualization Guide for Business Professionals (English Edition) eBook: Knaflic, Cole Nussbaumer: Amazon.com.mx: Tienda Kindle](https://www.amazon.com.mx/Storytelling-Data-Visualization-Business-Professionals-ebook/dp/B016DHQSM2/ref=sr_1_1?__mk_es_MX=%C3%85M%C3%85%C5%BD%C3%95%C3%91&dchild=1&keywords=dashboard+visual+report&qid=1615423485&sr=8-1)
  + [Good Charts: The HBR Guide to Making Smarter, More Persuasive Data Visualizations (English Edition) eBook: Berinato, Scott: Amazon.com.mx: Tienda Kindle](https://www.amazon.com.mx/Good-Charts-Smarter-Persuasive-Visualizations-ebook/dp/B01BO6QM9Q/ref=pd_sbs_3?pd_rd_w=vpiu0&pf_rd_p=8057a4f9-fbcc-4415-8568-dfd1be9946c6&pf_rd_r=M1Z4HTX2J572TGAA4A6F&pd_rd_r=524e4a2d-29c4-4233-8b92-047fd9523b94&pd_rd_wg=Ym83i&pd_rd_i=B01BO6QM9Q&psc=1)
  + [The Big Book of Dashboards: Visualizing Your Data Using Real-World Business Scenarios (English Edition) eBook: Wexler, Steve, Shaffer, Jeffrey, Cotgreave, Andy: Amazon.com.mx: Tienda Kindle](https://www.amazon.com.mx/Big-Book-Dashboards-Visualizing-Real-World-ebook/dp/B071Z6XJJX/ref=pd_sbs_2?pd_rd_w=Hl9OS&pf_rd_p=8057a4f9-fbcc-4415-8568-dfd1be9946c6&pf_rd_r=BWDD0SHF7JCQB233KCY2&pd_rd_r=8fd2ac6f-3176-48cc-a97e-9f2999507881&pd_rd_wg=UEIuA&pd_rd_i=B071Z6XJJX&psc=1)
  + [DataStory: Explain Data and Inspire Action Through Story: Duarte, Nancy: Amazon.com.mx: Libros](https://www.amazon.com.mx/DataStory-Explain-Inspire-Action-Through/dp/1940858984/ref=tmm_pap_swatch_0?_encoding=UTF8&qid=&sr=)
* Tablero ejecutivo / operative (Strategy)
* M Language Reference
  + [Power Query M formula language reference - PowerQuery M | Microsoft Docs](https://docs.microsoft.com/en-us/powerquery-m/)
  + [Collect, Combine, and Transform Data Using Power Query in Excel and Power BI (Business Skills) (English Edition) eBook: Gil, Raviv: Amazon.com.mx: Tienda Kindle](https://www.amazon.com.mx/Collect-Combine-Transform-Business-English-ebook/dp/B07HP9J35M/ref=sr_1_1?__mk_es_MX=%C3%85M%C3%85%C5%BD%C3%95%C3%91&dchild=1&keywords=collect+combine+transform&qid=1615473369&sr=8-1)
* DAX
  + [Data Analysis Expressions (DAX) Reference - DAX | Microsoft Docs](https://docs.microsoft.com/en-us/dax/)
  + [Definitive Guide to DAX, The: Business intelligence for Microsoft Power BI, SQL Server Analysis Services, and Excel (Business Skills) (English Edition) eBook: Marco, Russo, Ferrari Alberto: Amazon.com.mx: Tienda Kindle](https://www.amazon.com.mx/Definitive-Guide-DAX-intelligence-Microsoft-ebook/dp/B07TS4FPZM/ref=sr_1_11?__mk_es_MX=%C3%85M%C3%85%C5%BD%C3%95%C3%91&dchild=1&keywords=powerbi&qid=1615424102&s=digital-text&sr=1-11)
  + [DAX Patterns: Second Edition (English Edition) eBook: Russo, Marco, Ferrari, Alberto: Amazon.com.mx: Tienda Kindle](https://www.amazon.com.mx/DAX-Patterns-English-Marco-Russo-ebook/dp/B08DRQT2ZM/ref=pd_sbs_2?pd_rd_w=9nQyh&pf_rd_p=8057a4f9-fbcc-4415-8568-dfd1be9946c6&pf_rd_r=R9ZTTC66X8WPE70RR3C5&pd_rd_r=082e9b53-5a2f-48bf-920c-59d305da49a5&pd_rd_wg=jliH0&pd_rd_i=B08DRQT2ZM&psc=1)
  + [Applied DAX with Power BI: From zero to hero with 15-minute lessons (English Edition) eBook: Lachev, Teo: Amazon.com.mx: Libros](https://www.amazon.com.mx/Applied-DAX-Power-BI-15-minute-ebook/dp/B07RTLVGY1/ref=sr_1_3?__mk_es_MX=%C3%85M%C3%85%C5%BD%C3%95%C3%91&dchild=1&keywords=dashboards+powerbi&qid=1615424297&s=books&sr=1-3)
* Power BI
  + [Microsoft Power BI Complete Reference: Bring your data to life with the powerful features of Microsoft Power BI (English Edition) eBook: Knight, Devin, Knight, Brian, Pearson, Mitchell, Quintana, Manuel, Powell, Brett: Amazon.com.mx: Libros](https://www.amazon.com.mx/Microsoft-Power-BI-Complete-Reference-ebook/dp/B07KW6GVPD/ref=sr_1_4?__mk_es_MX=%C3%85M%C3%85%C5%BD%C3%95%C3%91&dchild=1&keywords=dashboards+powerbi&qid=1615424297&s=books&sr=1-4)
* Community
  + [Data Stories Gallery - Microsoft Power BI Community](https://community.powerbi.com/t5/Data-Stories-Gallery/bd-p/DataStoriesGallery)

**OTHER LINKS:**

[Get data from Excel workbook files](https://docs.microsoft.com/en-us/power-bi/connect-data/service-excel-workbook-files)

<https://github.com/MicrosoftLearning/Analyzing-Visualizing-Data-PowerBI>

<https://github.com/microsoft/PowerBI-visuals>

<https://github.com/microsoft/PowerBI-Developer-Samples>

<https://github.com/microsoft/PowerBI-visuals-tools>

<https://github.com/avontd2868/PowerBI-visuals>

<https://github.com/Azure-Samples/power-bi-embedded-integrate-report-into-web-app>

<https://github.com/microsoft/powerbi-desktop-samples>

<https://github.com/CriticalPathTraining/PowerBiCertification>

<https://github.com/OfficeDev/Project-Power-BI-Templates>

<https://github.com/Hugoberry/PowerQueryExtensions>

<https://github.com/PacktPublishing/Microsoft-Power-BI-Cookbook>

<https://github.com/microsoft/PowerBI-visuals-WordCloud>

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<https://github.com/atlaspolicy/power-bi-embedded>

<https://raw.githubusercontent.com/djpmsft/adf-ready-demo/master/moviesDB.csv>

<https://stackoverflow.com/questions/13997365/sql-joins-as-venn-diagram>

<https://docs.microsoft.com/en-us/analysis-services/multidimensional-tutorial/multidimensional-modeling-adventure-works-tutorial?view=asallproducts-allversions>

<https://docs.microsoft.com/en-us/analysis-services/multidimensional-models/mdx/key-concepts-in-mdx-analysis-services?view=asallproducts-allversions>

<https://www.amazon.com/gp/product/B086QY5T2X?ref_=dbs_p_mng_rwt_ser_shvlr&storeType=ebooks>

<https://docs.microsoft.com/en-us/powerquery-m/>

<https://daxstudio.org/>

<https://daxstudio.org/documentation/features/>

<https://exceleratorbi.com.au/getting-started-dax-studio/>

<https://docs.microsoft.com/en-us/power-bi/learning-catalog/learning-catalog-bdm>

<https://docs.microsoft.com/en-us/power-bi/guidance/star-schema>

<https://docs.microsoft.com/en-us/data-integration/gateway/service-gateway-install>

<https://www.amazon.com/Definitive-Guide-DAX-Intelligence-Microsoft/dp/1509306978/ref=redir_mobile_desktop?ie=UTF8&aaxitk=c6MefBND0FdBhJPxLLGfgA&hsa_cr_id=4539822990801&ref_=sbx_be_s_sparkle_td_asin_0>

<https://www.amazon.com/gp/product/B0195OPO5C/ref=dbs_a_def_rwt_hsch_vapi_tkin_p1_i4>

<https://www.amazon.com/Database-Normalization-Beginners-Deepak-Patel-ebook/dp/B081KWBCHK/ref=sr_1_4?crid=GA8E6FFCYP2V&dchild=1&keywords=database+normalization&qid=1607448206&s=books&sprefix=normali%2Cstripbooks%2C184&sr=1-4>

<https://www.youtube.com/watch?v=mGuInv4NghU>

<https://www.amazon.com.mx/Big-Book-Dashboards-Visualizing-Real-World/dp/1119282713/ref=sr_1_1?__mk_es_MX=%C3%85M%C3%85%C5%BD%C3%95%C3%91&dchild=1&keywords=the+big+dashboard+book&qid=1605194828&sr=8-1>

<https://blogs.oracle.com/datascience/5-best-practices-for-data-visualization>

<https://www.tableau.com/learn/articles/data-visualization-tips>

<https://www.toptal.com/designers/data-visualization/data-visualization-best-practices>

<https://www.sas.com/en_us/whitepapers/any-size-business-can-supersize-results-with-data-visualization-108199.html?utm_source=google&utm_medium=cpc&utm_campaign=bi-va-us&utm_content=GMS-103957&keyword=data+visualization&matchtype=p&publisher=google&gclid=EAIaIQobChMIxbT79az87AIVwT2tBh2v8Q4HEAAYASAAEgJDevD_BwE>

<https://www.microsoft.com/en-us/resilience/business-insights-analytics-solutions?&ef_id=EAIaIQobChMIxbT79az87AIVwT2tBh2v8Q4HEAAYAiAAEgILHvD_BwE:G:s&OCID=AID2100615_SEM_EAIaIQobChMIxbT79az87AIVwT2tBh2v8Q4HEAAYAiAAEgILHvD_BwE:G:s>

<http://download.microsoft.com/download/0/0/8/008257BD-13C6-44C8-AE2A-6431F2B0650C/Zero_to_Beautiful_PBI_Best_Practices.pdf>

<https://docs.microsoft.com/en-us/power-bi/fundamentals/supported-languages-countries-regions>

<https://docs.microsoft.com/en-us/power-bi/>

<https://github.com/MicrosoftLearning/DA-100-Analyzing-Data-with-Power-BI>

<https://docs.microsoft.com/en-us/power-bi/paginated-reports/paginated-reports-save-to-power-bi-service>

<https://docs.microsoft.com/en-us/power-bi/paginated-reports/paginated-reports-report-builder-power-bi>

<https://docs.microsoft.com/en-us/power-bi/natural-language/q-and-a-limitations>

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-data-points>

<https://docs.microsoft.com/en-us/power-bi/admin/service-admin-manage-your-data-storage-in-power-bi#:~:text=There%20is%20a%201%20GB,250%20MB%20for%20the%20dataset>.

<https://docs.microsoft.com/en-us/learn/powerplatform/power-bi>

**CLASS QUESTION LINKS**

[Power BI data sources - Power BI | Microsoft Docs](https://docs.microsoft.com/en-us/power-bi/connect-data/power-bi-data-sources) (Direct Query / Live connection support)

[Incremental refresh for datasets in Power BI - Power BI | Microsoft Docs](https://docs.microsoft.com/en-us/power-bi/connect-data/incremental-refresh-overview)

[Many-to-many relationship guidance - Power BI | Microsoft Docs](https://docs.microsoft.com/en-us/power-bi/guidance/relationships-many-to-many)

[Many-to-many relationships in Power BI Desktop - Power BI | Microsoft Docs](https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-many-to-many-relationships)

[Key Performance Indicator (KPI) visuals - Power BI | Microsoft Docs](https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-kpi)