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|  | **Power BI Quick Start course description:** |  |
| Power BI course | * + Git Hub Repository: <https://github.com/AndreyQC/MSBI.Lab>   Homework: Folder (Lab); Deadline: Until next Lecture (1,0,-1) ; Done files: Git.Epam.Com   + Go to [https://git.epam.com](https://git.epam.com/) and create git project with name (Power-BI-Quick-Start-FirstName-LastName). Add all trainers to you GIT project as masters ([anna\_sedina@epam.com](mailto:anna_sedina@epam.com), [darya\_pivikova@epam.com](mailto:darya_pivikova@epam.com), [elisey\_astakhov@epam.com](mailto:elisey_astakhov@epam.com)). Or add [darya\_pivikova@epam.com](mailto:darya_pivikova@epam.com).   + Marks: andreypotapov.database.windows.net/MSBIAzure   + Status meeting: every Tuesday – 19.00 – 19.30   + Video: <https://videoportal.epam.com/channel/MKBYbl57Xq/videos>   + MS Power BI: <https://www.youtube.com/playlist?list=PL1N57mwBHtN0JFoKSR0n-tBkUJHeMP2cP>   + Stand up video - <https://epam.sharepoint.com/:f:/r/sites/EPAMMSBI.DEV.S21/Shared%20Documents/Status%20Recordings?csf=1&web=1&e=MdU3k3> |  |
| Power BI Quick Start #2 E01 | topicname: Power BI desktop introduction:  subtopics:  subtopicname: Configuring Power BI desktop;  topicname: Data Sources:  subtopics:          subtopicname: Load data from Database;          subtopicname: Load data from folder;          subtopicname: Load excel file;          subtopicname: Load data from web site with power query;  topicname: Data Transformation:  subtopics:          subtopicname: Queries and Applied steps;          subtopicname: Working with Advanced Editor;          subtopicname: Query renaming;          subtopicname: Duplicate columns;          subtopicname: Working with data types;          subtopicname: Date functions in Power BI;          subtopicname: Split column by delimiter;          subtopicname: Create groups of queries;          subtopicname: Add new columns: Conditional column; Column from Example; Custom column; Index column;          subtopicname: Power query M;          subtopicname: Append and merge queries;          subtopicname: First row as header;          subtopicname: Query dependences;          subtopicname: Query parameters;          subtopicname: Create function with parameter;          subtopicname: Invoke custom function;          subtopicname: Pivot/unpivot data;          subtopicname: Filtering out values;          subtopicname: Replacing data;          subtopicname: Create new query by list of values;          subtopicname: Enter data in new query;          subtopicname: Create new query by column from another;          subtopicname: Working with duplicates;          subtopicname: Working with fact and dimensions;    Links:  Install Power BI Desktop: <https://www.microsoft.com/en-us/download/details.aspx?id=58494> |  |
| Power BI Quick Start #2 E02 | topicname: Data model in Power BI:  subtopics:  subtopicname: Model panel in Power BI Desktop;  subtopicname: Manage data relationships in Power BI;  subtopicname: Hide fields and measures;  topicname: Calculated columns and calculated tables in Power BI;  topicname: Hierarchies:  subtopics:  subtopicname: Drill up and Drill down functions;  subtopicname: Use Expand all;  topicname: DAX:  subtopics:  subtopicname: Date Dim using DAX;  subtopicname: Aggregation Functions;  subtopicname: ‘X’ Aggregation Functions;  subtopicname: VAR Function  subtopicname: Time Intelligence Functions;  subtopicname: Text Functions;  subtopicname: Table Functions (FILTER, ALL, RELATEDTABLE, etc);  subtopicname: CALCULATE;  subtopicname: DAX Formatter;  topicname: Quick measures in Power BI;  topicname: Time Intelligence Functions;    Links:  Both-directional relationships: <http://radacad.com/what-is-the-direction-of-relationship-in-power-bi>    DAX functions: <https://docs.microsoft.com/ru-ru/dax/dax-function-reference>    DAX Formatter - <https://www.daxformatter.com/>    DAX Course –  <https://www.sqlbi.com/p/introducing-dax-video-course/> <https://www.youtube.com/playlist?list=PL1N57mwBHtN0JFoKSR0n-tBkUJHeMP2cP>  <https://docs.microsoft.com/en-us/learn/modules/create-measures-dax-power-bi/> |  |
| Power BI Quick Start #2 E03 | topicname: Visualizations in Power BI:  subtopics:  subtopicname: 3 panels - filters, visuals, fields;  subtopicname: Bar chart visual;  subtopicname: Pie chart visual;  subtopicname: Tree map visual;  subtopicname: Line chart visual;  subtopicname: Column chart visual;  subtopicname: Combo Chart visual - line and column chart;  subtopicname: Different types of slicers;  subtopicname: Date slicers;  subtopicname: Different types of map visuals - map. filled map, shape map;  subtopicname: Add text box, shape, image;  subtopicname: Use backward for shape;  subtopicname: Tables and matrix visuals, Table Styles;  subtopicname: Waterfall visual;  subtopicname: Funnel visual;  subtopicname: Scatter chart visual;  subtopicname: Card visual;  subtopicname: Multi-row card visual;  topicname: Format panel in Power BI:  subtopics:  subtopicname: conditional formatting;  subtopicname: Coloring Charts;  topicname: Focus Mode and See Data;  topicname: Work with pages  subtopics:  subtopicname: Duplicate, rename, add page in Power BI;  topicname: Dax measures in Power BI  subtopics:  subtopicname: Create avg measures in Power BI;  topicname: Hierarchies in Power BI  subtopics:  subtopicname: Hierarchies;  subtopicname: Automation hierarchies for date in Power BI;  topicname: Auto aggregation for numeric fields (Default Summarization and Categorization);  topicname: Filters panel in Power BI:  subtopics:  subtopicname: Filters on Visual (Including TopN);  subtopicname: Filters on Page;  subtopicname: Filters on Report (all pages);  topicname: Edit interactions panel in Power BI;  topicname: Gridlines and Snap to Grid;  topicname: Include and exclude. |  |
| Power BI Quick Start #2 E04 | topicname: Power BI desktop:  subtopics:  subtopicname: Gauge, Cards, and KPIs;  subtopicname: Show categories with no data;  subtopicname: Working with bookmarks;  subtopicname: Power BI Q&A natural language queries;  subtopicname: Selection panel;  subtopicname: Rename measure for visualization;  topicname: Formatting options Power BI desktop:  subtopics:  subtopicname: Page view and page size settings;  subtopicname: Positioning, aligning, back/forward option;  subtopicname: Themes and themes gallery, custom themes;  subtopicname: Column tools: data type, format, decimal numbers, data category;  topicname: Power BI service:  subtopics:  subtopicname: Introduction to Power BI Service;  subtopicname: Publish from Power BI Desktop to the Service;  subtopicname: Overview of dashboards and Power BI Service;  subtopicname: Pin a tile on a dashboard;  subtopicname: Add widgets to your dashboard;  subtopicname: Navigating content in Power BI Service;  subtopicname: Sharing a dashboard;  subtopicname: Display your dashboard and report tiles in Focus mode;  subtopicname: Power BI Q&A natural language queries in Power BI Service;  subtopicname: Install and configure Personal Gateway;  subtopicname: Schedule refresh;    Links:  Power BI Service - <https://app.powerbi.com>    Power BI Gateway - <https://powerbi.microsoft.com/en-us/gateway/> |  |
| Power BI Quick Start #2 E05 | topicname: Power BI service:  subtopics:  subtopicname: Dashboard settings;  subtopicname: Power BI Email Subscriptions;  subtopicname: Power BI notifications;  subtopicname: Alerts in the Power BI service;  subtopicname: Full screen mode in Power BI Service;  subtopicname: Dashboard display options;  subtopicname: Pin a live page to a dashboard;  subtopicname: Customize dashboard tiles, tiles settings;  subtopicname: Share, print, and export a dashboard;  subtopicname: Report Settings;  subtopicname: Personal settings;  topicname: Working with excel:  subtopics:  subtopicname: Upload an Excel table to Power BI service;  subtopicname: Pinning Excel tables;  subtopicname: Connect to an Excel table in Power BI service;  subtopicname: Excel data with BI content (Power Pivot);  subtopicname: Analyze with Excel;  subtopicname: Connect to OneDrive for Business, Excel high fidelity;  topicname: Power BI desktop;  subtopics:  subtopicname: Working with slicers;  subtopicname: Complicate Dax queries;  subtopicname: Custom visuals - text search;  subtopicname: Heat map visual;  subtopicname: Different result for visuals depend on DAX query;  subtopicname: Schedule refresh for web source in Power BI Service;    Links:  Power BI Publisher from excel - <https://powerbi.microsoft.com/ru-ru/blog/share-your-excel-data-with-power-bi-publisher-for-excel-preview/> |  |
| Power BI Quick Start #2 E06 | topicname: Power BI service:  subtopics:  subtopicname: Organize work in workspaces in Power BI ;  subtopicname: Roles in the new workspaces;  subtopicname: Creating, sharing, and updating apps;  subtopicname: Load report from service;  topicname: Row-level security  subtopics:  subtopicname: Create roles in Power BI Desktop;  subtopicname: Use RLS table from Database;  topicname: Different modes in Power BI:  subtopics:  subtopicname: Import Data;  subtopicname: Direct Query and Direct query limitations;  subtopicname: Live Connection;  subtopicname: Power BI direct connect to SQL database;  subtopicname: Power BI native query;  subtopicname: Power BI Performance Analyzer;  topicname: Custom Visuals  subtopics:  subtopicname: Custom visuals gallery;  subtopicname: Create you own custom visual;    Links:  Organize work in workspaces in Power BI - <https://docs.microsoft.com/en-us/power-bi/collaborate-share/service-new-workspaces>    Sources for DQ and LC - <https://docs.microsoft.com/en-us/power-bi/connect-data/power-bi-data-sources>    Direct query limitations - <https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-directquery-about>    Life connection - <https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-directquery-datasets-azure-analysis-services>    Comparing IMP, DQ, LC- <https://radacad.com/directquery-live-connection-or-import-data-tough-decision#:~:text=With%20Import%20Data%20you%20get,measures%20as%20well%20as%20visualizations.&text=DirectQuery%20will%20give%20you%20few,give%20you%20Report%20Level%20Measures>.    Dax functions:  USERNAME() - <https://docs.microsoft.com/ru-ru/dax/username-function-dax>  USERPRINCIPALNAME() - <https://docs.microsoft.com/ru-ru/dax/userprincipalname-function-dax>    List of all custom visuals - <https://appsource.microsoft.com/ru-RU/marketplace/apps?product=power-bi-visuals>    Create custom visual - <https://powerbi.microsoft.com/en-us/developers/custom-visualization/> |  |
| Power BI Quick Start #2 E07 | topicname: Power BI Mobile:  subtopics:  subtopicname: Power BI mobile apps;  subtopicname: Mobile dashboard layout in Power BI Service;  subtopicname: Mobile dashboard layout in Power BI Desktop;  topicname: Power BI Desktop:  subtopics:  subtopicname: Integrate Power BI Desktop with R, Python;  subtopicname: Analytical panel;  subtopicname: Key influencers visual;  subtopicname: Decomposition tree visual;  subtopicname: Smart narrative visual;  topicname: Options, data source settings;  topicname: Dataset Quick Insights |  |
| Additional information (stand up) | topicname: Measure table;  topicname: Best practices for visuals:  <https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-report-visualizations>  <http://www.perceptualedge.com/blog/>  <https://venngage.com/blog/report-design/>  <https://www.edwardtufte.com/tufte/> |  |