

Assignment Project Exam Help Introduction to Business Analytics

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Week 4: Data Exploration and Visualization 1

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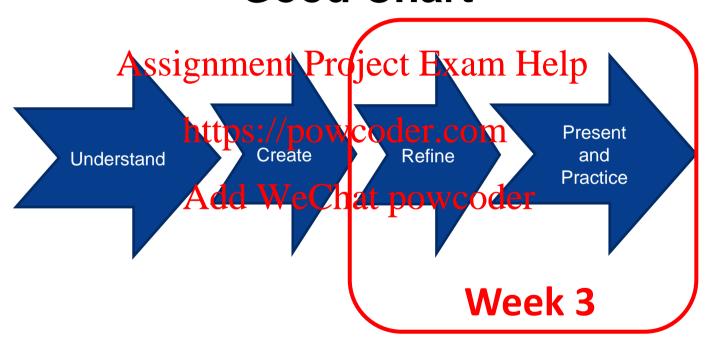


Agenda

- Recap on Week 3 topic
- Assignment Project Exam Help Introduce Power BI – Components, Workflaws and Building Blogks
- Demondar Query Editor & DAX



An simple approach to build a Good Chart





Refine to Impress

- 1. To make charts feel **neat** or **clean**, focus on design structure and hierarchy Assignment Project Exam Help
- 2. For charts that just make sense or feel instantly https://powcoder.com understood, focus on design clarity

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3. To make charts that look elegant or beautiful, focus on design simplicity



Refine to Persuade

- 1. Hone the Main idea
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- 2. Maktost/stamodentom

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3. Adjust what's around it

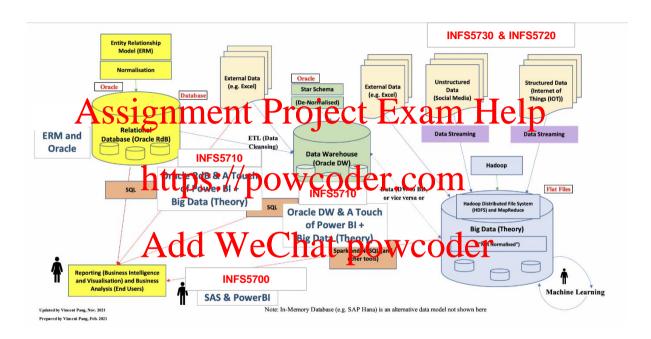


Persuasion or Manipulation





The Data Analytics Eco-system





How Power BI Help With the Analytics Process







ETL Framework for Data Methods

1. Extract

- Pulling data from original sources (e.g., SQL, CRM, flat files, Email, Web pages)

Array of connector options Transforms 1gnment Project Exam Help

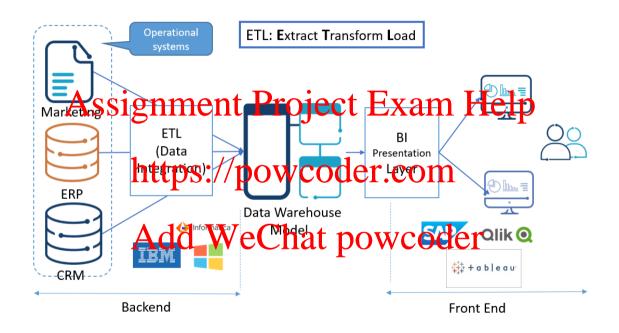
- Data cleaning (e.g., filtering rows, splitting columns, change data types ahttps://po.wcoder.com
- Data integration (e.g., adding lock-up keys, joining tables, aggregating Add WeChat powcoder
 Data enrichment (e.g., create calculated columns, dynamic
- tables, etc.)

3. Load

Power Query loads extracted and transformed data into the Power BI interface



ETL Framework for Data Methods





What is Power BI?

A collection of software services, apps, and connectors that work together solutions interactive insights.

Access to allattos://powcoder.com
wherever it may live (e.g.,
Excel, cloud-based over Chat powcoder
premises data warehouses,
Web page)

Suitable for power users





Power BI Component

- Power BI Desktop
- Power Bl-Service (Power Bl-Som)



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(Source: Microsoft)



Power BI Desktop

An authoring tool used to create Power BI models and reports

Get Data

It enables you to:

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multiple data sources

Model Data

> Shape the data with powcoder.com that build insightful, compelling data nwelchat powcod Reports

Use the data models to create visualizations and reports



Power BI Desktop

 Two important Power BI engines

Powers Perment Project Exam Editor



→ | Untitled - Power BI Desktop



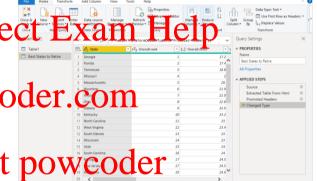
O Search

Power BI Desktop – Power **Query Editor**

Transform data into a repoAussigenthenth Project

 Remove and cleanse dirty https://powcoder.com

Merge and combine different data deur We Chat poweoder



Automate



Power BI Desktop – Data Modelling

• Creating relationship between the left project Exame Help sources

Perform DAX(Data/powcoder.com
Analysis Expressions)
calculation Add WeChat powcode

Create Hierarchies

Categorize data



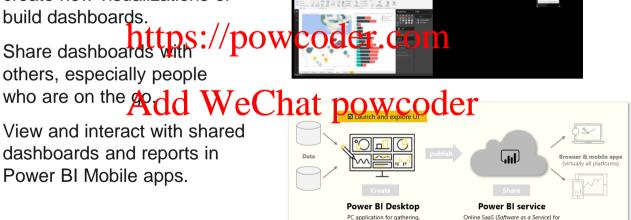
Workflow in Power BI

 Bring data into Power BI Desktop, and create a report.

2. Publish to the Power BI service Avesa gament Proje create new visualizations or build dashboards.

3. Share dashboards with .../powcoder.com others, especially people

4. View and interact with shared dashboards and reports in Power BI Mobile apps.

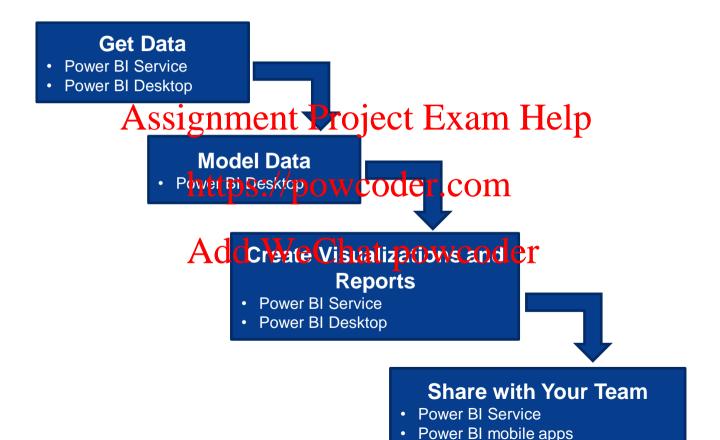


business analytics and visualization

transforming, and publishing your data



Workflow in Power BI & Power BI tools



Building Blocks of Power Bl

Visualizations
 Dataseignment Project Exam He prover BI Building Blocks & Components
 Reports https://powcoder.ecorombashboards
 Dashboards

Tiles Add WeChat powcoder

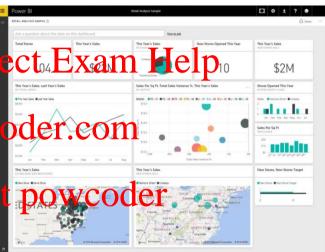


Building blocks of Power BI - Visualizations

• A visualization (sometimes also referred to as a visual) is a visual solution of the coded map, or other coded map, or other create to represent your data visually.

• A visualization (sometimes also referred to as a visually and visualization (sometimes also referred to as a visually and visualization (sometimes also referred to as a visually and visualization (sometimes also referred to as a visually and visualization (sometimes also referred to as a visual) and visualization (sometimes also referred to as a visual) and visualization (sometimes also referred to as a visual) and visualization (sometimes also referred to as a visual) and visualization (sometimes also referred to as a visual) and visualization (sometimes also referred to as a visual) and visualization (sometimes also visualization (somet

 The goal of a visual is to present data in a way that provides context and insights





Building blocks of Power BI – Datasets (1)

 A dataset is a collection of data that Power BI uses to create its Sisiant Pr

 Dataset can be single table (e.g., Excel file table)
 combination of many different sources.

 An important and enabling part of Power BI is its built-in data connectors.

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1 Y	ear 💌 Mo	nth 🕶 Month Name 💌	Calendar Month 👊 B	irths 💌 Birt	hs Per Day 💌 Birth	s (Normalized) 💌
2119	2004	1 inuary	1/1/2 04	2,937	94.7	2842
21 10	— 0/4	2 ebruary	2/1/2 J4	A	97.4	2921
2.21	200+		3/1/2.94	3,228	100.9	3027
2127	2004	4 April	4/1/2004	2,896	96.5	2896
2123	2004	5 May	5/1/2004	3,008	97.0	2911
2124	2004	6 June	6/1/2004	3,047	101.6	3047
2125	2004	7 July	7/1/2004	2,981	96.2	2885
2126	2004	8 August	8/1/2004	3,079	99.3	2980
11 7	200	=> :epten per	9/1/2004	3,219	107.3	3219
212.	2004	10 October	10/1/2004	3,547	114.4	3433
2129	2004	11 November	11/1/2004	3,365	112.2	3365
2130	2004	12 December	12/1/2004	3,143	101.4	3042
2131	2005	1 January	1/1/2005	2,921	94.2	2827
2132	2005	2 February	2/1/2005	2,699	96.4	2892
2138	2005	3 March	3/1/2005	3,024	97.5	2926
137	2005	4 April	4, 1/2 00	3,037	101.2	3037
lu	2005	3 May	5/1/2065	3,231	104.2	3127
2136	2005	6 June	6/1/2005	3,163	105.4	3163
2137	2005	7 July	7/1/2005	3,119	100.6	3018
2138	2005	8 August	8/1/2005	3,156	101.8	3054
2139	2005	9 September	9/1/2005	3,439	114.6	3439

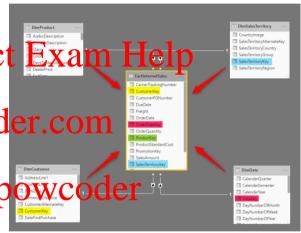


Building blocks of Power BI – Datasets (2)

 Power BI is deigned to work with a common database structure that is called snowflake schema. Project

• A fact table contains events, transactions, salespecords over the supports summarization.

• A dimension table how the hat contact information/attributes for each customer (e.g., who, what, where, when, how). You may have multiple dimension tables. It supports filtering and grouping.





Building blocks of Power BI - Reports

• A **report** is a collection of visualizations that appear together of the lambert pages.

• You can also detail sepon win the Power BI service.

Reports let you Acreate was Chavisualizations, on multiple pages if necessary, and let you arrange those visualizations in whatever way best tells your story



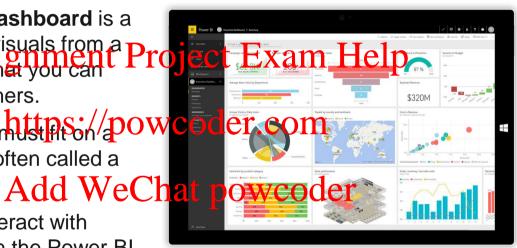


Building blocks of Power BI -**Dashboards**

 A Power BI dashboard is a collection of visuals from a Projection of visuals from the Projection of visual share with others.

· A dashboard must ps. / powcod single page, often called a canvas.

 Users can interact with dashboards in the Power BI service or on mobile device.





Building blocks of Power BI - Tiles

 A tile is a single visualization on a dashboard.

• When creating a dashboard in Power Silantanenty Projection or arrange tiles however you want.

 When you're viewing, or consuming, a dashboard or report, you can interact with it, but you can't change the size of the tiles or their arrangement.





Power BI Author- 80 / 20 Rule



Add WeChat powcoder 80 / 20 rule



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Next Topic: Data Visualization and Exploration 2

- Crestigament Repired Franklanders in Power Bl https://powcoder.com



Assignment Project Exam Help QUESTIONS! https://powcoder.com

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