

Human Regional

Powerbi Report Serves - on - premises server for hosting Powerbi reports.

Powerbi is a business analytics tool developed by microsoft. It helps us Visulize our data and share insight across our organization.

9ts main components are

· Powerbi desktop: - A window application for Creating reports and data Visul

· Powerbi Servic :- An online Saas (software as a services) platform for sharing & collaboration report

· Powerbi Mobile app: - App for viewing neports of destloside

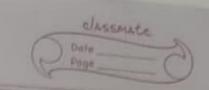
· Powerbi Crateway: - Bridges the gap ble origine nises data sources and the power bidenice.

Classmate Date Page Power Query Editor The HOME tab includes general Settings and Common transformation tools. (Table Parameters, table properties) etc. The TRANSFORM tab includes tods to modify existing column (splitting / grouping, transposing, extracting text, etc.) The ADD COLUMN tools Create new column (based on conditional rules, text operations, calculations, dates etc data operators etc.) to be all the best of the first the the there of a

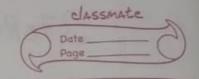
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STORAGE & CONNECTION MODES



- -> Power BI Supports Serval types of Storage and comm Connection modes:-
- · Import: Tables are stored in-memory default storage within Power BI and queries are fulfilled by (ached data (default).
 - -> Dataset is less than I hB (after compression)
 and fast performance.
 - it is super handy when Source data does not change frequently.
 - nodeling, and DAX functions.
 - Jon need fast query performance.



Direct Query:

Tables are Connected

directly to the Source detand any queries are
executed on-demand at the data

Source.

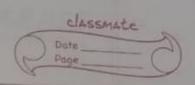
in-memory.

-> Source data changes frequently and reports must reflect changes (most recent data)

only be accessed from the original Source.

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you will fact query perfections

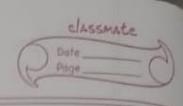


· Composite Model: - (Dual)

Tables Come from a

mix of Import and DirectQuery modes,

- Boost performance by setting appropriate storage for each table.
- → Combine a DirectQuery model with additional imported data.
- DirectQuery models.



Dive Connection:
(onnect to

pre-published Power BI dataset in

Power BI Service or Azure Analysis Service

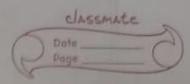
- Create one dataset that servers as a central source of truth.
- -> Analyst teams can create different reports from the Same source.
- -> Multi-developer teams where one user builds the model and another works on visualization.

Data QA & Profiling Tools way to explore data and * Profiling tools like Column quality.

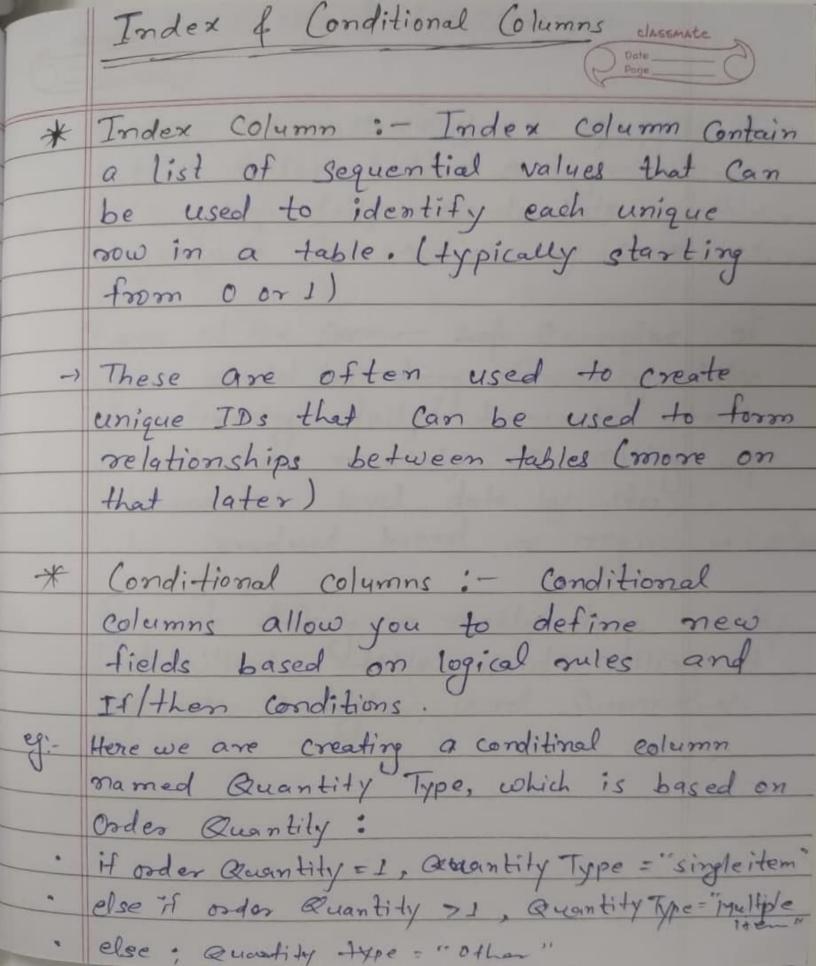
Column distribution, and column profile allow you to explore the quality, Composition, and distribution of your data before loading it into the Power BI tront - end. -> column quality shows the percentage of values within a column that are valid . Contains errors, or are empty. · How Hover over the column quality box to see the number of record in each category. Click the option menu to remove duplicates errors or empty values.

Profiling tools are great way to quickly find and address common data quality issued in one place, instead of having to manually apply routtiple tools or filters.

Classmate Page Column distribution provides a Sample distribution of the data within a column. of values enthin a column that ear Hover over the column and the bex to member of accord in each celes chiek the autim menu -to semewer alvala



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 Column Profile prov	ides a	more	holistic
riew of the data	ina	column	, includin
a Sample distribution	and .	profilin	9
Statistics.	10000000		1 4
			Hora



Pivoting & Unpivoting classmate · Pivoling describes the process of turning distinct now values into column.

AND turing distinct columns into sows. · Pivoting notates it from vertical to horizontal, AND unpivoting rotates it from horizontal to vertical. · NOTE: - Transpose works very similarly, but doesn't recognize unique values, instead, the entire table is fansformed go that each row becomes a column and vice versa.

	CAROUPING & AGGREGATING CLASSENALE
	CAROUPING & AGGREGATING CLASSENATE
	CIROUP BY allows you to aggregate data
	at a different level or "grain".
	lie. group daily records into monthly,
	aggregate transactions by store, etc.)
=	one of the Common cafe examples of
	this would be doing Something like transforming daily transaction into
	transforming daily transaction into
	weekly or monthly of outling up
	transaction level dorta by store.
	transaction level dorta by store, by product brand or region, et aten
	So, its taking a really deep, really
	detailled Hable and rolling it
	So, its taking a really deep, really detailled table and rolling it up into a higher level Summary.
	·×

MERGING QUERIES Merging queries allows you to join tables based on a common column (like lookup in Excel) NOTE: - Merging add column to an existing Just because you can merge table doesn't mean you should.

In many Cases, it's better to keeps tables separate and define relationship between them in the data model (more on that soon.

	APPENDING QUERIES classmate
	Appending quesies allows you to combine or stack tables sharing the exact Same column structure
	combine er stack tables sharing
1100 110	the exact Same column structure
	and data type. (Same str. & Same data type)
	Note: - Appending add Rows to an existing table 1940xx.
	existing table 1940xx.
#	Merging table more roakes table wide by adding more columns:
	by adding more columns:
	Appending makes testes taller by adding more rows.
	adding more rows.