	BIS
	Experiment no: 4
*	Dim: To study Data Modelligg in BI
*	Theory:
->	Date Modelling in BI
	Data modelling is a process of menting a correptual representation
	of data objects and their relationships to one another. The
	makes of data madelling traingly involves several steps,
	including requirements gathering, conceptual design, logical design,
	physical design, and implementation.
	note modellers collaborate with stakeholders to understand what
	data is preded, define the entities and their traits, set up
	connections between data objects and build a model that
	helps developmes, dutabase managers, and other work effectively
	with the data.
)	
_	Data modelling types.
7	Data Bodenny 14/15
>	correptual data modelling
7	It is a visual representation of database concepts and the
	relationships between them identifying the high-level user view of
	1 1 h II I
	focuses an establishing entities, characteristics of an entity, and relationships between them.
	to coses on extension them
	and relationables estables in a.



2)	Logical Model
	This model further defines the structure of the data entities
	and their relationships. Usually, a logical data model is used
	for a specific project since the purpose is to develop a
	technical map of rules and class structures.
3)	Physical Model
	This is a schema on framework defining how data is
	physically stored in a database. It is used for database -
	specific modeling whose the volumes include exact types and
	attobutes. A physical model designs the internal schema.
	7.0
→	Steps to create Data model in BI
1)	To receite data model in Bower BT, you need to add all date
	sources in Power BT new report option.
	Once you add a data source, it is presented on the right
	side box.
3)	To Power BI on the left side of the screen, you have the
	following three labs: - Report, Data, Relationships
4)	When you pavigate to the Report tob, you can see a dushbound
	and a chart selected for data visualization
5/	When you go to the Dota tab, you can see all the data as
	per the defined Relationship.
6)	In the Relationship tob, you can see the relationship
	between data souvres.

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→	You can combe calculated columns in Power BI by combining two or more dements of the existing data.
2)	To reate a new calculated column, navigate to Data View tab. on the left side of the suren and then click Modelling. When you navigate to the modelling tab, you can see a New Column aption at the top of the sureen. This also opens the formula box, whose you can enter DAX formula to proform calculation. DAX-Dato Analysis Expression is a powerful language also used in Excel to perform calculations.
)	We can also execute a new colculated table in data modelling in Power BT.
	DAX expression is used to receive the new table. You have to enter the name of a new table on the left side of the equal sign and DAX formula to perform the calculation to form that table on the night. When the calculation is complete, the new table appears in the Fields pane in your model.
	Managing Time-Based data: Bours BI allows to doill through time-based data by default. When you add a date field in your analysis and enable doill

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	on your data visualization, it takes you to the part level of time-based data
	We can enable the doill feature in visualizations using the option at the top. Dore we enable the doill feature and did the bars on lines in the chapt, it doills down to the next level of time hierarchy. Example: - Years -> Quarter -> Months.
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