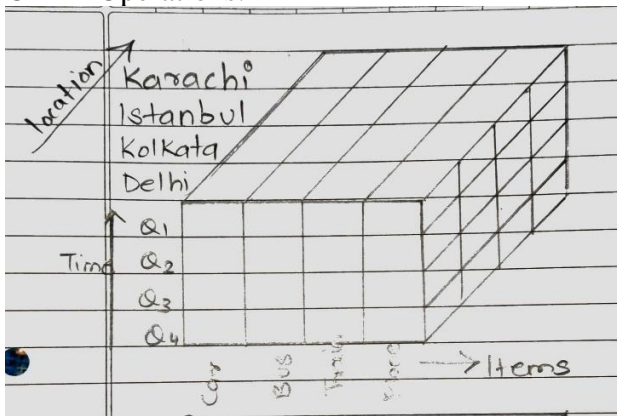
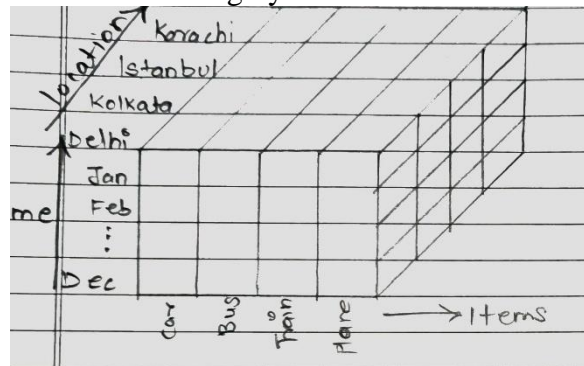


Semester	T.E. Semester VI – Computer Engineering
Subject	Data Warehousing and Mining
Subject Professor In-charge	Prof. Kavita Shirsat
Assisting Teachers	Prof. Kavita Shirsat
Laboratory	M-312B

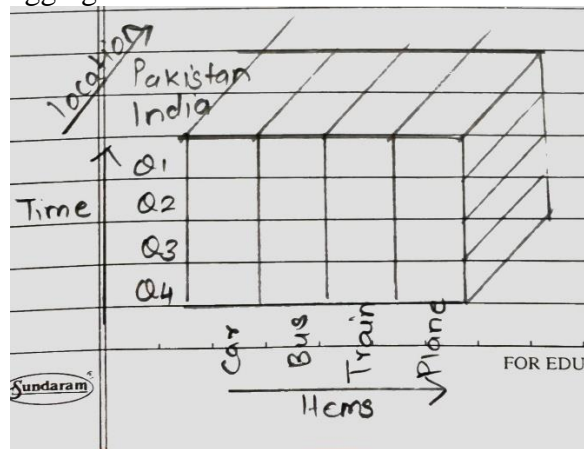
Student Name	Vibodh Bhosure
Roll Number	20102A0032
Grade and Subject Teacher's Signature	

Experiment Number	10
Experiment Title	Perform OLAP operations on dimensional model.
Resources / Apparatus Required	Hardware: Computer system      Software: SQL-PostgreSQL
Description: -	OLAP stands for Online Analytical Processing Server. It is a software technology that allows users to analyze information from multiple database systems at the same time. It is based on multidimensional data model and allows the user to query on multi-dimensional data (eg. Delhi -> 2018 -> Sales data).
Implementation: -	<p>OLAP Operations:</p> 

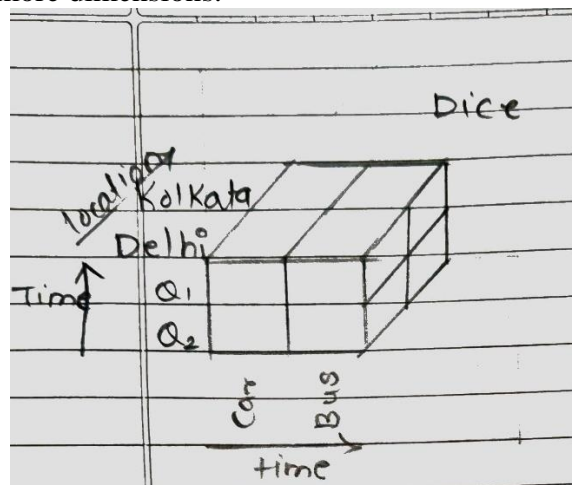
1. Drill Down: In drill-down operation, the less detailed data is converted into highly detailed data.



2. Roll Up: It is just opposite of the drill-down operation. It performs aggregation on the OLAP cube.



3. Dice: It selects a sub-cube from the OLAP cube by selecting two or more dimensions.



4. Slice: It selects a single dimension from the OLAP cube which results in a new sub-cube creation.

Location	Karachi			
	Istanbul			
	Kolkata			
	Delhi			
		Car	Bus	Train
				Plane

5. Pivot: It is also known as rotation operation as it rotates the current view to get a new view of the representation.

Items	Car			
	Bus			
	Train			
	Plane			
		Delhi	Kolkata	Istanbul
				Karachi

Conclusion: -

Hence, there exists 5 OLAP operations in total. All five operations have been executed above. The data set is a multi-dimensional dataset. These operations are used to analyze multiple data set at the same time from different tables.