Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

AY: 2024 - 25

Class:	TE	Semester:	V
Course Code:	CSC504	Course Name:	DWM

Name of Student:	Sainath Khot
Roll No. :	20
Assignment No.:	1
Title of Assignment:	
Date of Submission:	
Date of Correction:	

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	3
Demonstrated Knowledge Legibility	3	3
Legibility	2	2
Total	10	8

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge Legibility	3	2	1
Legibility	2	1	0

Checked by

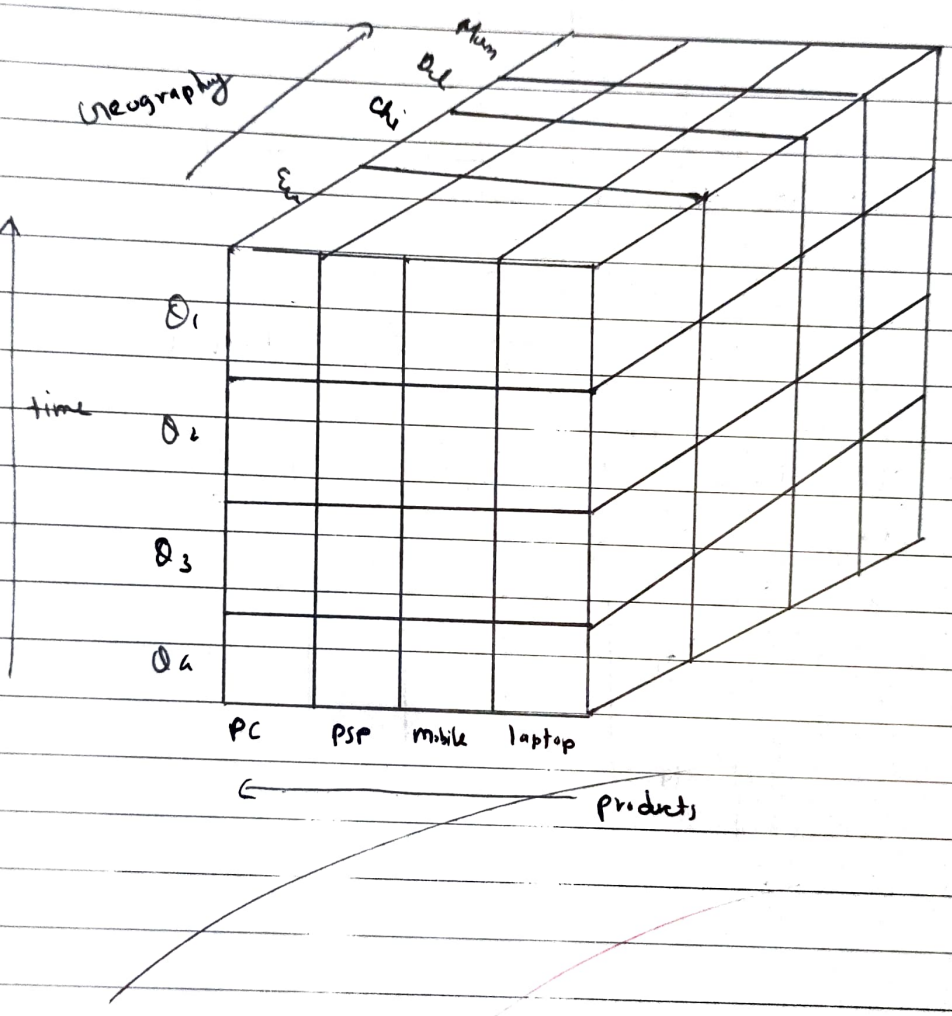
Name of Faculty : Miss Neha Raut

Signature :

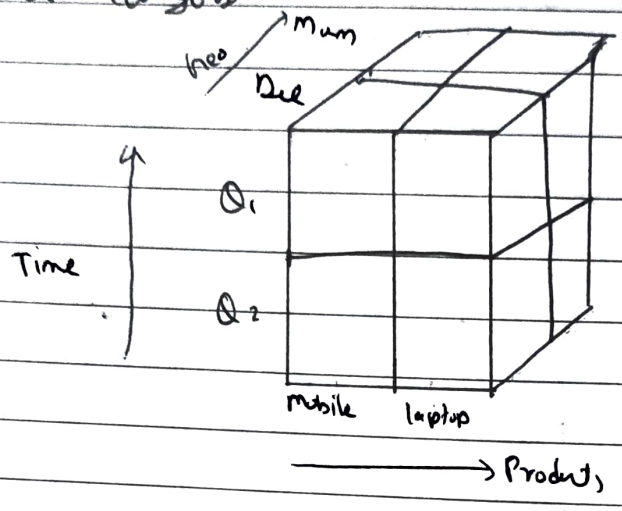
Date :

Q. Given a sales cube with dimensions such as Time, Product and Geography, describe how you would perform the following operations: roll-up to see yearly sales, drill down to see daily sales for a specific month, slice to view sales for a specific product-centric of region centric.

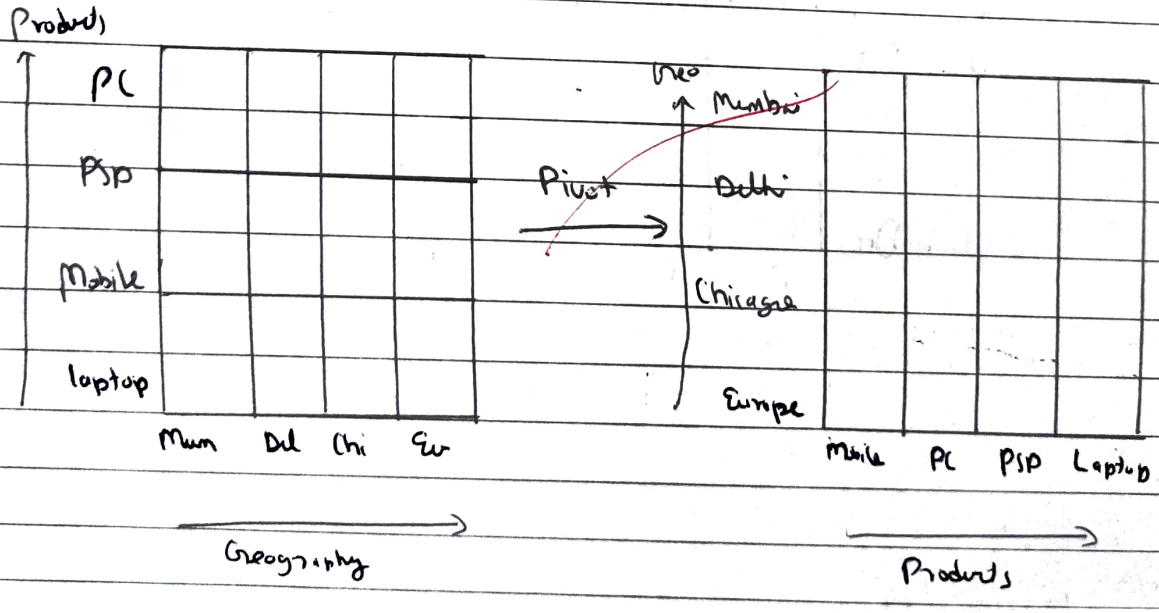
=>



iv) Dice To view Sales for a specific region & product category

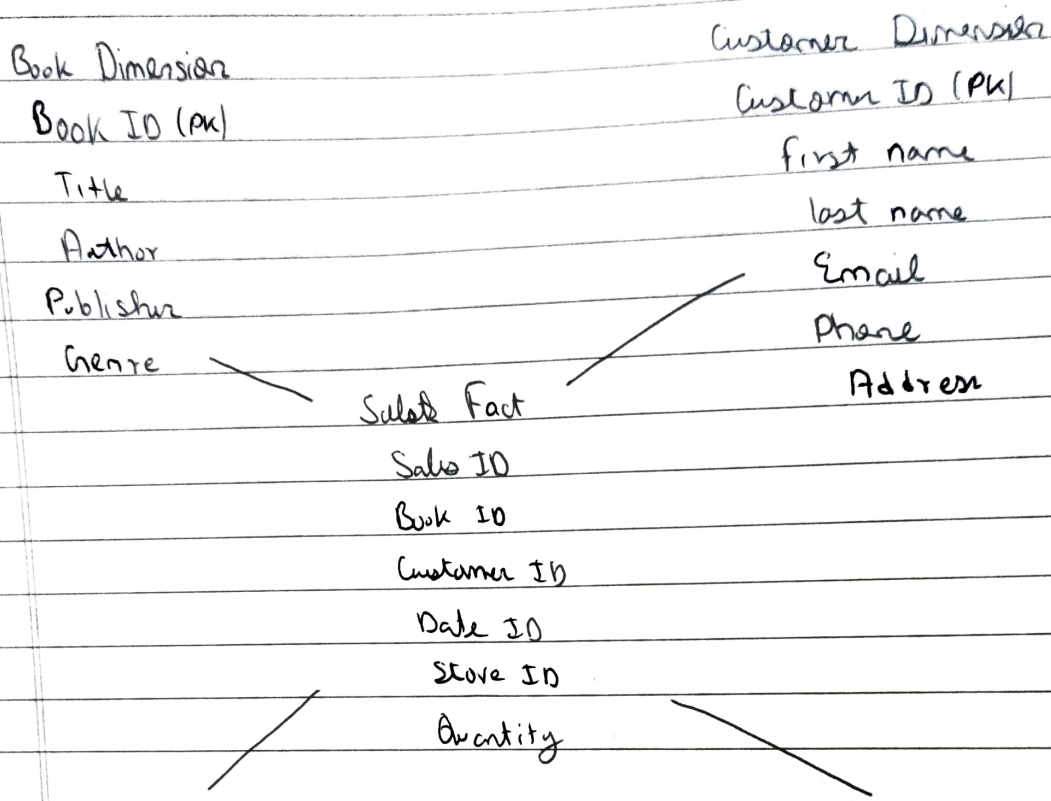


v) Pivot To change the view for product centric to region centric

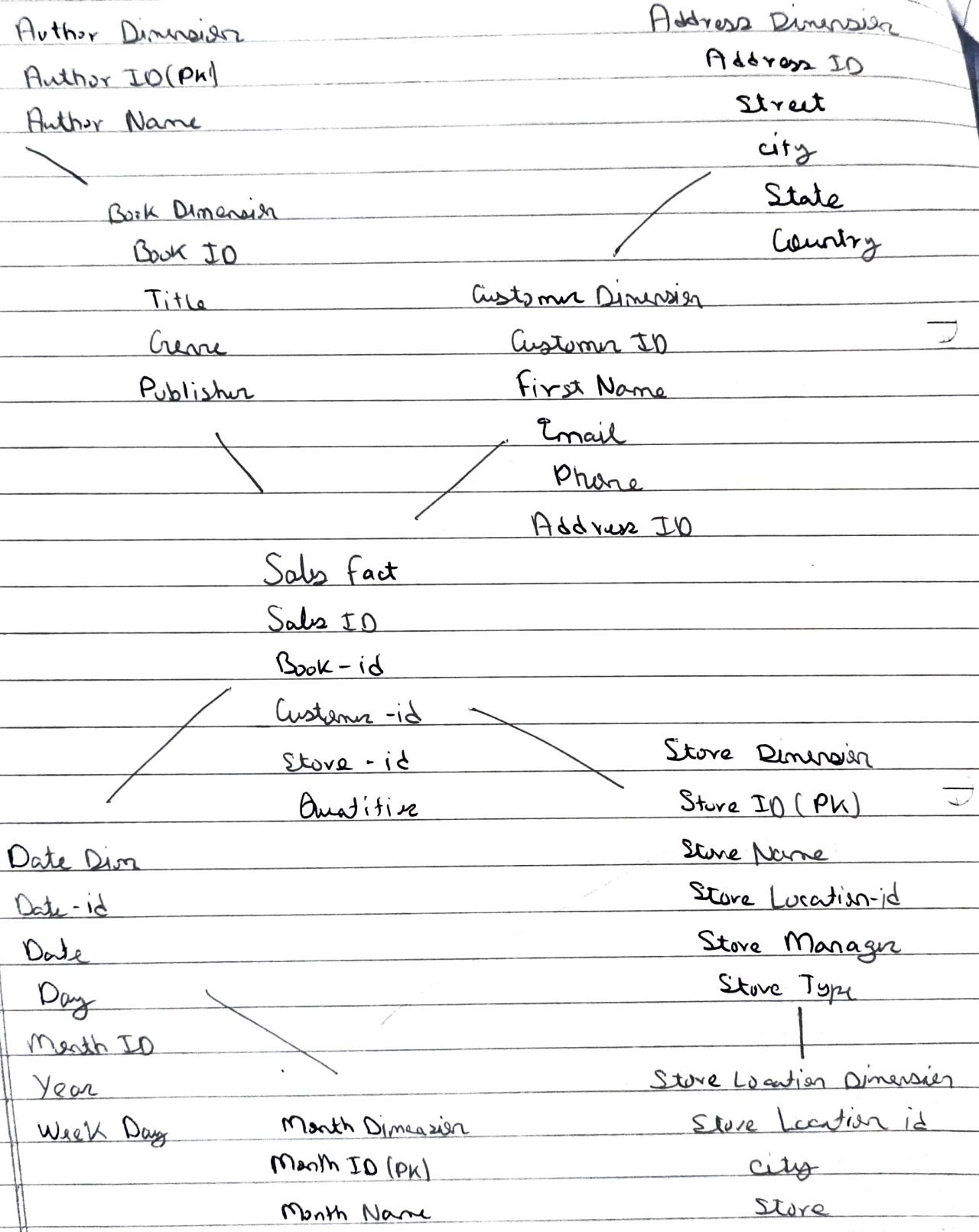


12 Create a Star schema & snowflake schema for an online book-store. Define the fact table, dimension table & any sub dimension table. Explain relationship between them.

=)



2) Snowflake



Relationship -

1) Star Schema Relationship : The sales fact table is connected to each dimension table (Book, customer, Date, store) through foreign keys. Each dimension table contains detailed attributes about that dimension.

2) Snowflake Schema Relationship - The sales fact table is connected to the main dimension tables (Book, customer, date, store) through foreign keys. Main Dimension tables (Book, customer, Date, store) are further normalized by breaking them into sub dimension tables (eg Author, Month, store location). Each sub-dimension table is connected to its corresponding main dimension table through foreign keys.

Q3 For hospital. Design fact constellation schema that includes fact tables for patient admission, treatments and billing.