Aim Mo design a data marchouse for a given scenario. Requirements - The CEO and the advisor to the board of directors have listed out the following requirements and queries that they need answered:

what is the total sales revenue for our smartphones in the last quarter? That is average monthly production volume of our top selling products? in the third querter of last year? iv what are the most common reasons for product returns? Con me identify any patterns?

1) How have our sales for nearable technology evolved over the last 5 years? vi. Which store locations have the highest foot traffic on weekends? vi) Find any anomalies or outliers in our inventory viii) Give a breakdown of warranty claims by product ix) Provide a forecast for the demand of our new product line for the next quarter.

x) what is the lead time for our key components in the supply chain? FOR EDUCATIONAL USE Sundaram

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	Intormo	etion tacko	ge Diagram	. L	
1	Time	Product	Customer	Category.	
	Time-id	Product_id	Customer_id	Category-id	
	Yearly	Product mane	Customer name		
	Monthly	Price Category-id	phone number	Description.	
	Weekly	3 3 1	address		
	Daily		loyalty level		
	Holiday Alage		Age		
***	Facts: N	et mefit c	Gender and	cutomer review,	-
+	prod	ct quantity	in stock.		Vi.
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Hence the Snow	uflake schema for sales department ist
	a * .
	Category-dim.
	Category-id category-name.
	Description.
Time-dim	
Time-id.	Sales-fact table.
Yearly	time-id Product-dim.
avarterly.	product_id Product_id
Monthly	lacation_id Product_name
weekly	customer_id Price.
Daily.	Total amount Category-id.
Holiday-flag.	Quantity sold
	customer dim.
location_dim.	austomer_id
locationid	austomer_name
store-name.	email
city	phone number.
state.	address
country.	layalty level.
	Age
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	Using a snowflake schema in the sales department of an
	electronice store is justified for the following reasons "
i	Hierarchical Product Categories: Flectronics stores often have
	a complex hierarchy of products, making it essential to efficiently
	manage the data structure in dimension tables.
-\	Flexible Product attributes 2 Electronic products come with various
	attributes that may change overtime. A snowflake schema allows
	for easy updates and additions to product attributes without
·,	disrupting the entire schema.
:::	Store Locations and Regions - Electronics stores usually have
	multiple locations and operate in different regions. A
	snowflake schema simplifics the management and analysis of
	sales data across various geographic areas.
īvò	Data integrity and Consistency - A normalized schema ensures
	data accuracy and consistency, which is execial in the sales
	department.
v.>	Optimized Query Performances and Scalability and
	maintainability.
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