RENTAL ITEM

Item Key Title
Item No
Rating
New Release Flag
Genre
Classification
Sub-classification
Director
Lead Male
Lead Female

CUSTOMER

Customer Key
Customer Name
Customer Code
Address
State
Zip
Rental Plan Type

RENTAL FACTS

Item Key
Time Key
Customer Key
Store Key
Promotion Key
Rental Fee
Late Charge

TIME

Time Key
Date
Day of Month
Week End Flag
Month
Quarter
Year

STORE

Store Key
Store Name
Store Code
Zip Code
Manager

PROMOTION

Promotion Key
Promotion Code
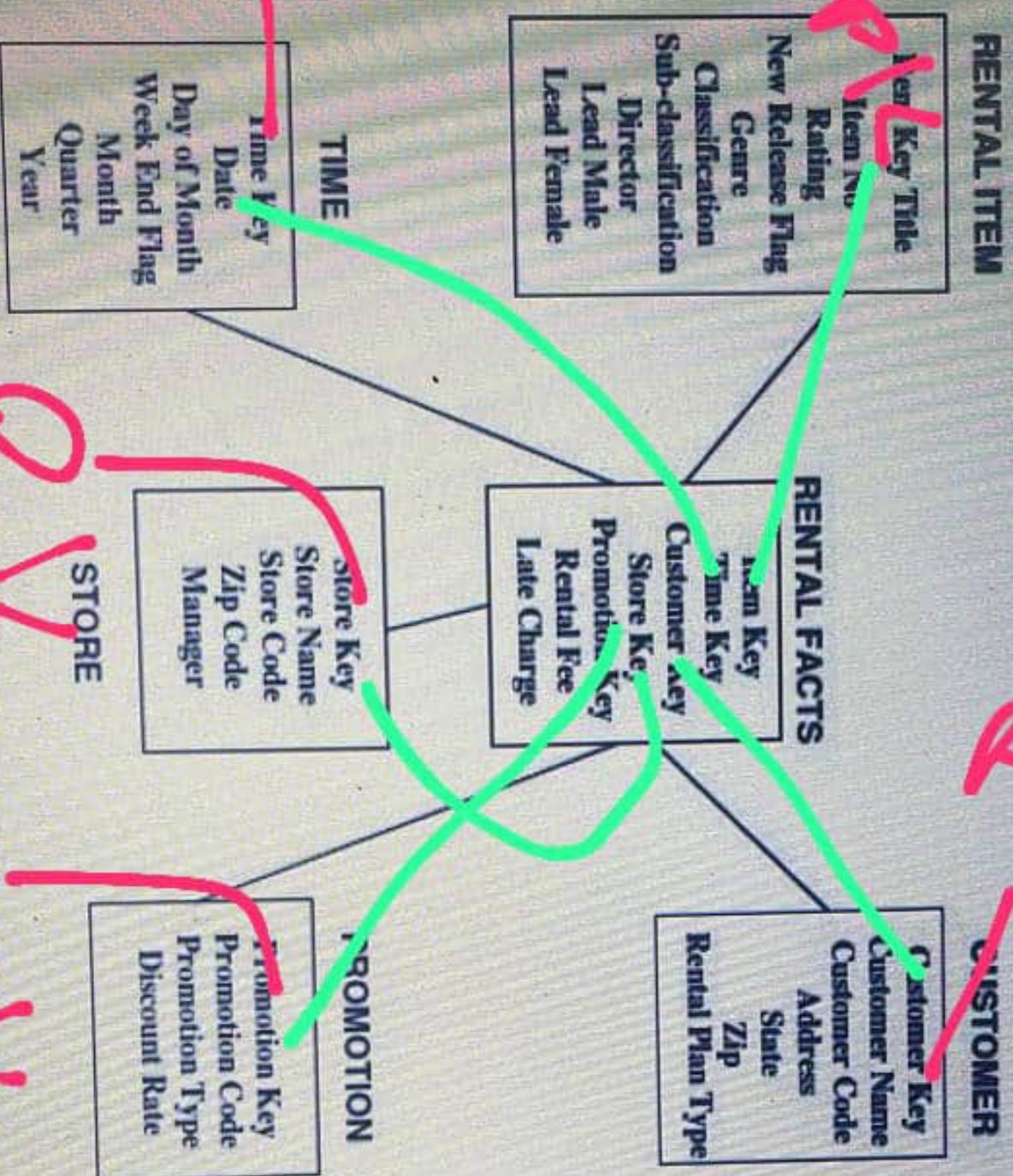Promotion Type
Discount Rate

Figure 10-15   STAR schema example: video rental.

RENTAL ITEM

Item Key Title
Item No
Rating
New Release Flag
Genre
Classification
Sub-classification
Director
Lead Male
Lead Female

TIME

Time Key
Date
Day of Month
Week End Flag
Month
Quarter
Year

RENTAL FACTS

Item Key
Time Key
Customer Key
Store Key
Promotion Key
Rental Fee
Late Charge

STORE

Store Key
Store Name
Store Code
Zip Code
Manager

CUSTOMER

Customer Key
Customer Name
Customer Code
Address
State
Zip
Rental Plan Type

PROMOTION

Promotion Key
Promotion Code
Promotion Type
Discount Rate

Figure 10.5 STAR schema example: video rental.

Question 1.

ROLLUP*((doctors, Time -> Month), total visitors)

Question 2

ROLLUP*(Patient, (Time -> Year, total visitors))

Question 3.

ROLLUP*(Treatment, (Time -> day, total costs))

Question 4

MAX(doctors, total visitors, 3) BY Treatment, doctors

Question 5

TOPPERCENT(Treatment, treat-number, 50) BY Treatment

B. The following Data Warehouse named 5Data.

Treatment
treatment-id
treat-name

Treatment-fact
treatment-id
doctor-id
patient-id
time-id
total-visits
total-costs
treat-number

Patient
patient-id
patient-name
patient-phone

Doctor
doctor-id
doc-name
doc-phone

Time
time-id
year
month
day
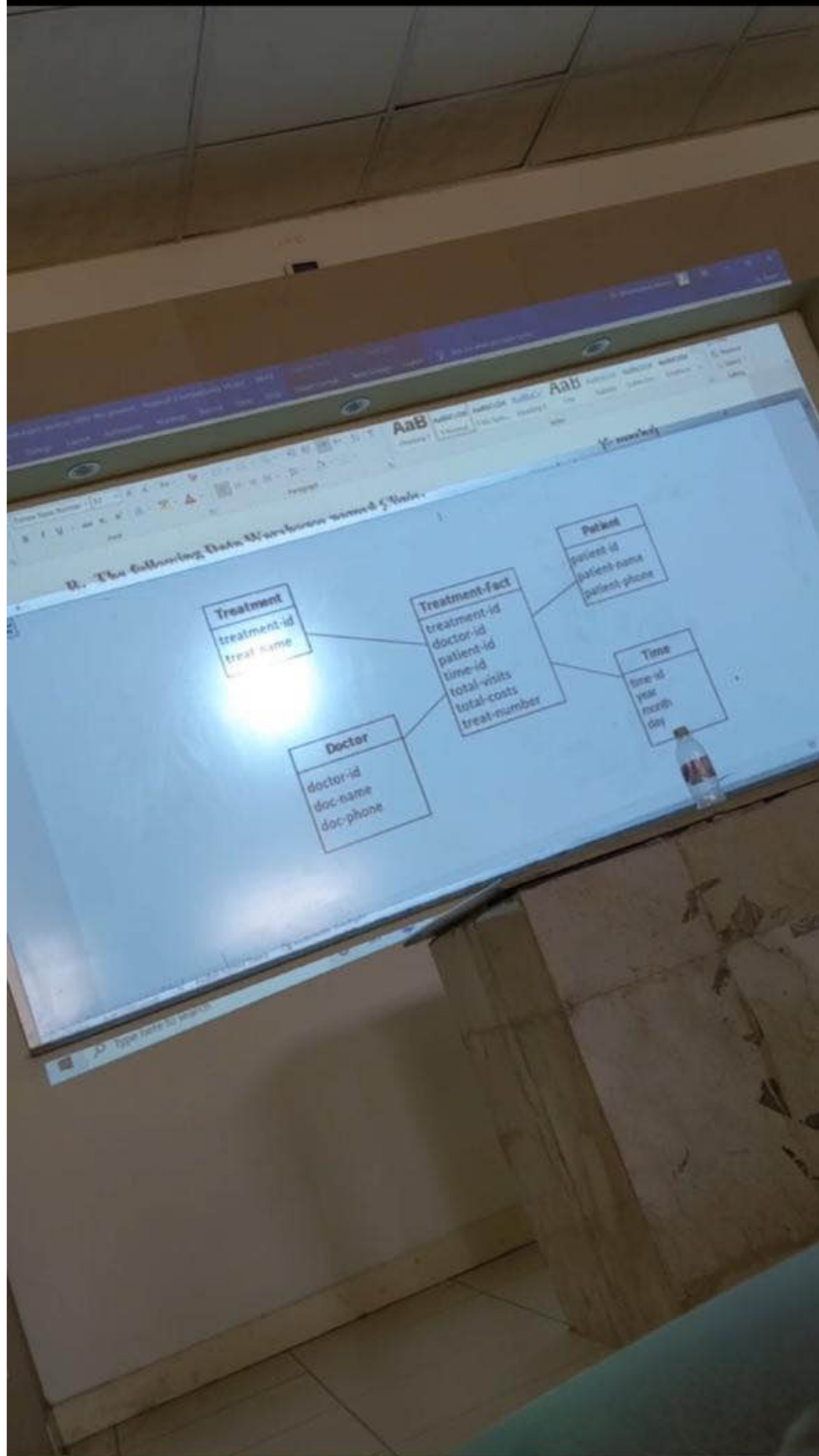
1- edge
2- rollup
3- sort
4- provit
5- max
6- Drop-measure
7- Drill-cross
8- Drill-down
9- percentage
10- slice

Data content	Current values	Archived, derived, summarized
Data structure	Optimized for transactions	Optimized for complex queries
Users	Large number	Relatively small number

السؤال اللي تحت الجدول عيوب الجدول Bottom-up Approach

- Each data mart has its own narrow view of data
- Permeates redundant data in every data mart
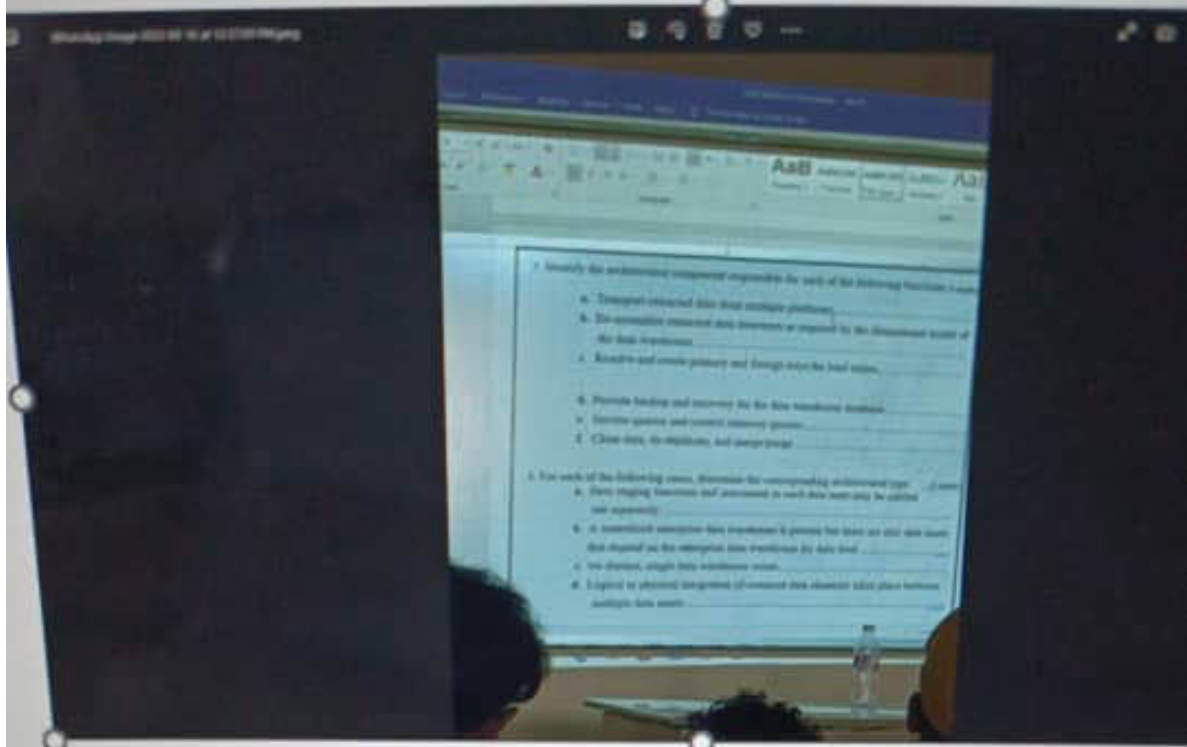
3-

Data warehouse: characteristics

- Analysis driven
- Ad-hoc queries
- Complex queries
- Used by top managers
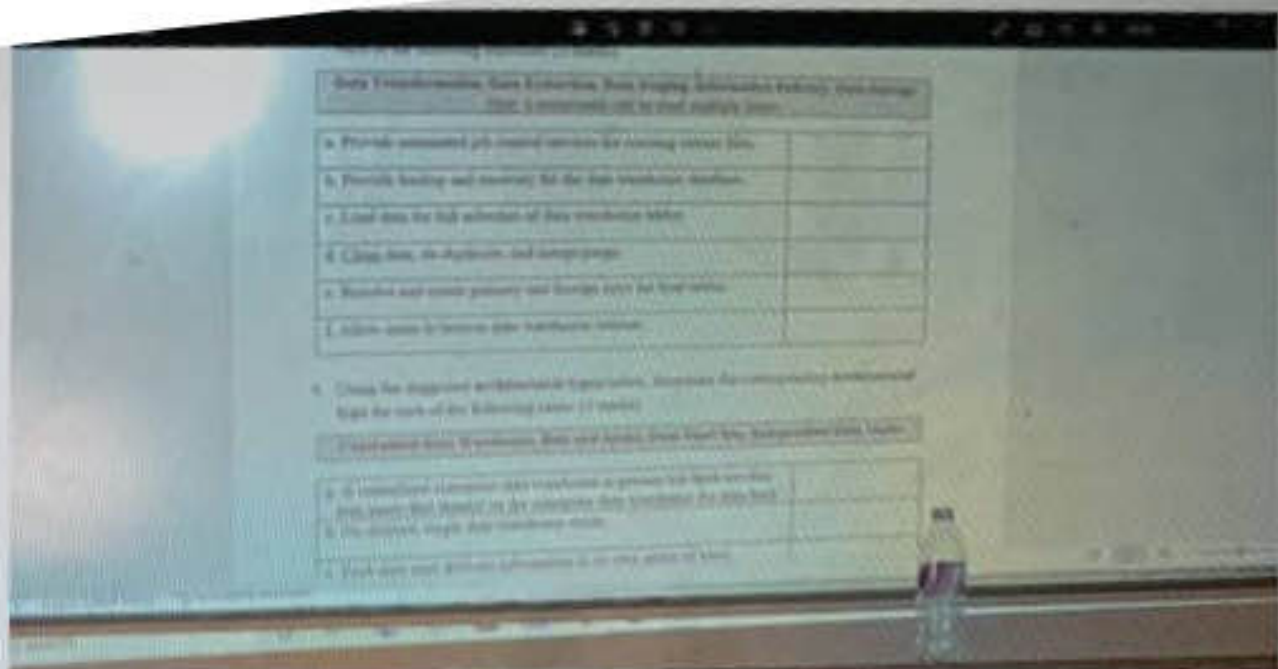
A. Data Extraction

B. Data Storage

C. Data Storage

D. Data Transformation

E. Data Staging

F. Information Delivery

اللي تحت الجدول

a) Hub and Spoke

b) Data-Mart Bus

c) Independent data marts

3

A. Data Extraction
B. Data Transformation
C. Data Staging
D. Data Storage
E. Information Delivery
F. Data Transformation

4

A. Independent data marts
B. Hub and Spoke
C. Data-Mart Bus
D. Federated