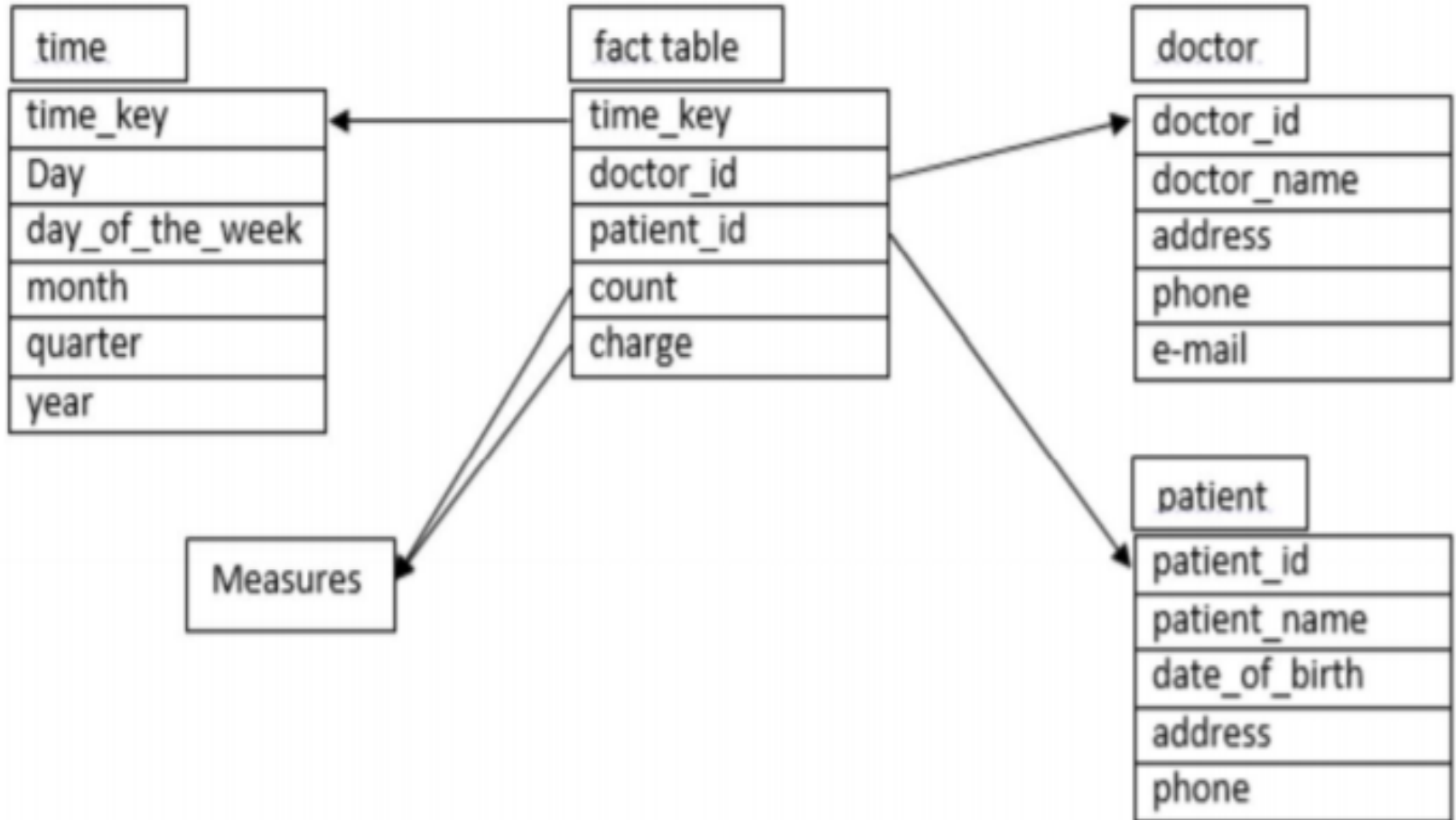Suppose that a data warehouse consists of the three dimensions time, doctor, and patient, and the two measures count and charge, where charge is the fee that a doctor charges a patient for a visit. a.

Draw a schema diagram for the above data warehouse using one of the schemas. [star, snowflake]
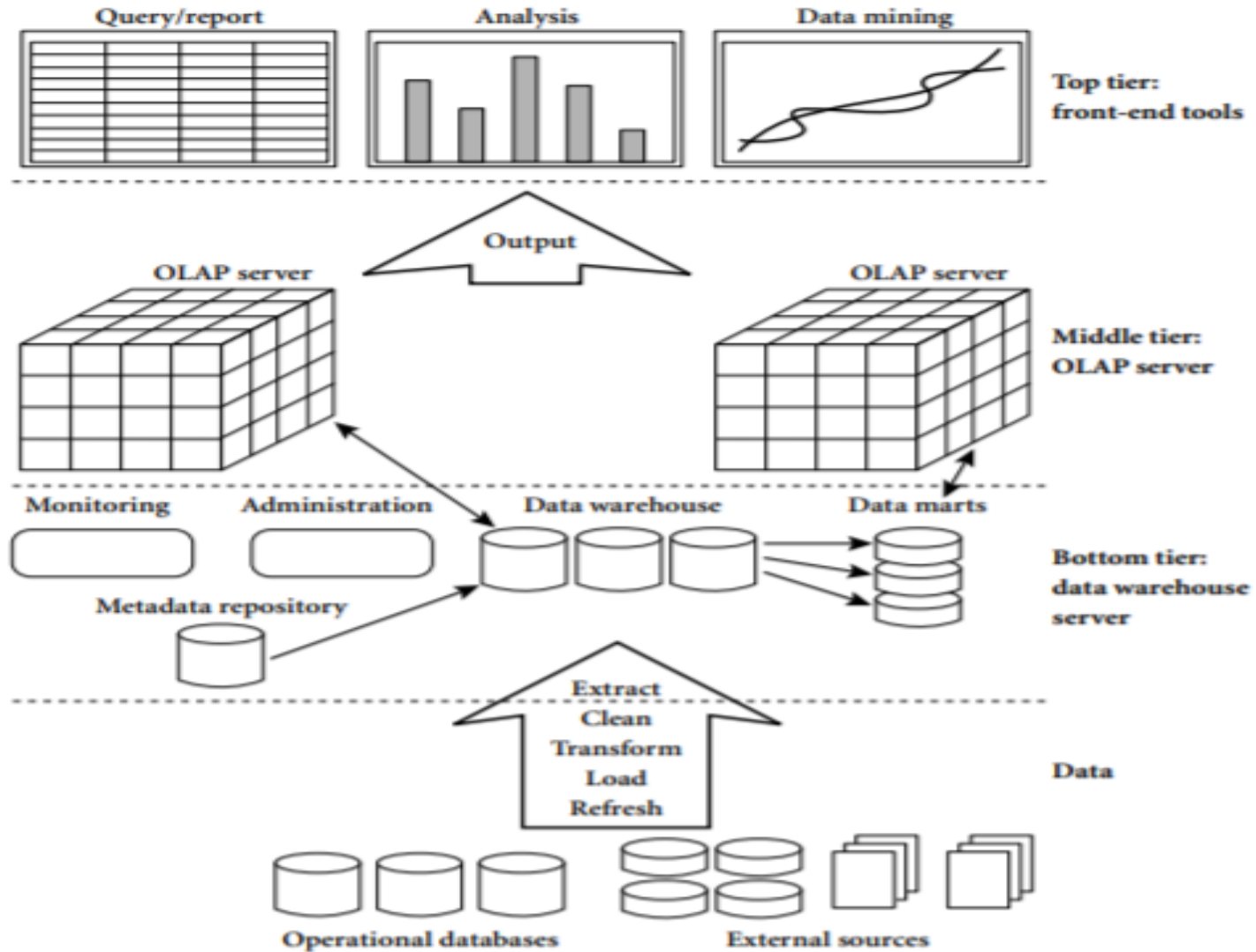
Answer

- Top-Down Approach
- Bottom-Up Approach
- Or Combination of Both

- Data Warehouse Design Process:

    - Choose a business process to model
    - Choose the grain of the business process
    - Choose the dimensions
    - Choose the measures

Data Warehouse Architecture (Three- Tier)

1. What is data warehouse?
2. Expand OLTP and OLAP
3. Compare Operational DBMS with Data Warehouse.
4. What is data cube?
5. What are the data models of Data warehouse
6. Star schema having---------
7. Define snowflake schema.
8. Define fact constellation schema.
9. DMQL Syntaxes of fact table and dimension tables are ---
10. DMQL syntaxes of star, snowflake schema, and fact constellation schema are------
11. List the types of measures of fact table
12. Describe concept hierarchies
13. Concept hierarchies with examples

14. Describe the OLAP operations
15. Examples of Rollup
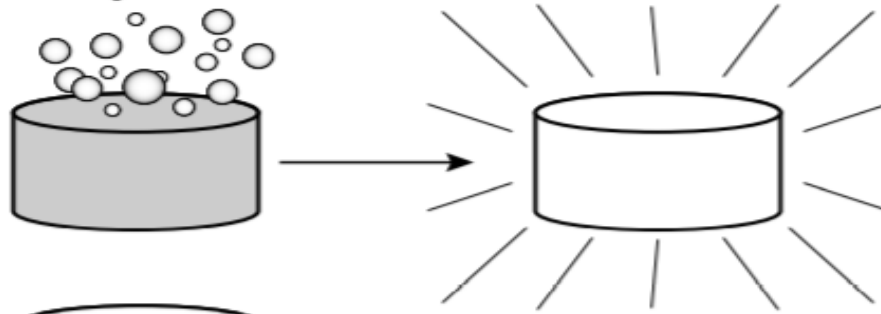16. Examples of Drill-down
17. Examples of Slice and Dice

NEED FOR DATA PRE-PROCESSING

INCOMPLETE DATA
NOISY DATA
INCONSISTATNT DATA

9

Data cleaning

Data integration
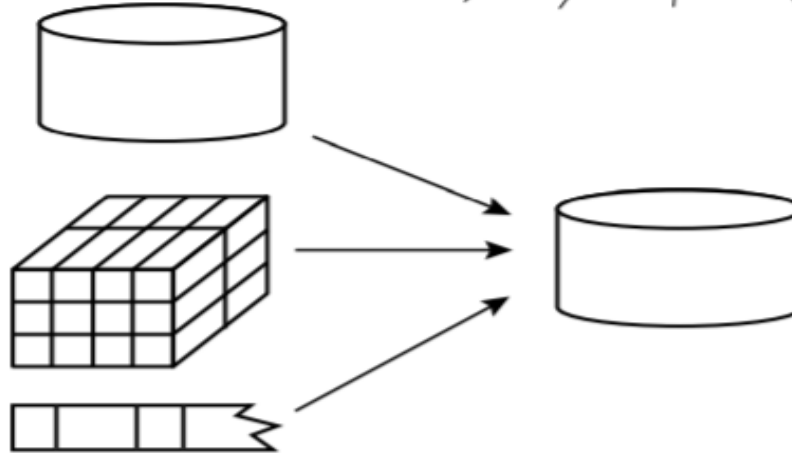
Data transformation   −2, 32, 100, 59, 48 ⟶ −0.02, 0.32, 1.00, 0.59, 0.48

Data reduction   attributes   attributes

	A1	A2	A3	...	A126
T1					
T2					
T3					
T4					
...					
T2000					

	A1	A3	...	A115
T1				
T4				
...				
T1456				

0