A3.4

Alternative databases and data warehouses

CHAPTER ASSIGNMENT · 20 MARKS

Name _____ Class _____ No. _____ Date _____

> Answer every question in the space given. Show your working. You may use the chapter page to help you.

Questions from the Guru Jazzy chapter page, for classroom use.

Exam-style questions

1 Define the term “data mining”. [1]

2 Explain the role of integrated data in a data warehouse. [2]

3 Describe concurrency control in distributed databases and how it can be achieved. [4]

4 Compare a document database with a relational database. [4]

5 Compare classification and sequential pattern discovery. [4]

6 Outline the role of OLAP in business intelligence. [3]

7 Outline two differences between a database view and a data warehouse. [2]

Chapter quiz

Q1 A social network wants to find friends of friends. Which type fits?

A	B	C	D
Graph	Key-value	Spatial	Spreadsheet

Q2 Which fits caching web sessions?

A	B	C	D
Key-value	Graph	Data warehouse	Spatial

Q3 Which suits a delivery app's map queries?

A	B	C	D
Spatial	Key-value	Document	Wide-column

Q4 What does ETL stand for?

A	B	C	D
Extract, transform, load	Encrypt, transfer, lock	Enter, test, list	Export, tabulate, link

Q5 A data warehouse is mainly for...

A	B	C	D
Analysis of historical data	Live transactions	Sending email	Playing games

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Q6 OLAP lets users...

A	B	C	D
Explore data across dimensions	Assign IP addresses	Compile code	Encrypt disks

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Q7 Grouping customers with no preset categories is...

A	B	C	D
Clustering	Classification	Regression	Rollback

Q8 Predicting next month's sales figure uses...

A	B	C	D
Regression	Clustering	Association	Anomaly detection

Q9 Which feature hides where data lives?

A	B	C	D
Location transparency	Partitioning	Durability	Replication

End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/ib-computer-science/a3-4-alternative-databases/