A3.3

Database programming

CHAPTER ASSIGNMENT · 11 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. Outline the difference between DDL and DML. [2]

2. Tables are Book(BookID, Title, AuthorID) and Author(AuthorID, LastName). Construct a query listing titles by the author “Rao”. [3]

3. Construct an SQL statement to raise the salary of engineer D894 by 300. [2]

4. Construct SQL to add an integer field Experience to the Engineer table. [2]

5. Construct SQL to remove all students in year 13 from Student(StudentID, Year). [2]

Chapter quiz

Q1 Which is DDL?

A	B	C	D
CREATE	SELECT	INSERT	UPDATE

Q2 Which is DML?

A	B	C	D
DROP	ALTER	DELETE	CREATE

Q3 What does SELECT DISTINCT do?

A	B	C	D
Ignores duplicate rows	Sorts rows	Deletes rows	Locks a table

Q4 Which pattern finds names ending in d?

A	B	C	D
'd%'	'%d'	'_d'	'd_'

Q5 In LIKE, the underscore matches...

A	B	C	D
Exactly one character	Any number of characters	Spaces only	Numbers only

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Q6 How do you test for an empty field?

A	B	C	D
= NULL	IS NULL	== NULL	EMPTY()

Q7 What happens if UPDATE has no WHERE?

A	B	C	D
Every row changes	Nothing	An automatic error	Only the first row changes

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Q8 Why can updating an indexed column be slow?

A	B	C	D
The index must be updated too	Indexes delete data	It needs a new table	SQL forbids it

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Q9 Which filters groups after aggregation?

A	B	C	D
HAVING	WHERE	ORDER BY	DISTINCT

Q10 Does a normal view store data?

A	B	C	D
No, it is a saved query	Yes, always	Only on weekends	Only numbers

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Q11 Which ACID property means “all or nothing”?

A	B	C	D
Atomicity	Consistency	Isolation	Durability

Q12 Which property keeps committed work after a power cut?

A	B	C	D
Durability	Isolation	Atomicity	Consistency

Q13 What does ROLLBACK do?

A	B	C	D
Undoes the current transaction	Saves it	Deletes the table	Creates a view

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End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/ib-computer-science/a3-3-database-programming/