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Unit 4 - Week 3

Lectures: Databases

Course outline

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Week 3 Lectures: Databases

- ☐ Module 6: Introduction to databases
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- ☐ Module P7: Interacting with a DBMS
- ☐ Module P8: Practical: Deeper exploration of a DBMS (column types and more)
- ☐ Module 9: Transactions & ACID properties
- ☐ Module P9: Introduction to SQL
- ☐ Module P10: Module P10: Connecting your webapp to your database & SQL Injection
- ☐ Quiz : Assignment 3
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Assignment 3

The due date for submitting this assignment has passed. **Due on 2018-03-03, 05:00 IST**. As per our records you have not submitted this assignment.

(multiple correct answers are possible, no negative marking, no partial marking for questions)

1) Which of the following does not improve database write times?

1 point

- ☐ Normalising data to reduce amount of data to be written
- ☐ Using transactions for every database operation
- ☐ Removing unnecessary constraints
- ☐ Using a hard disk with faster write speeds

No, the answer is incorrect.

Score: 0

Accepted Answers:

Using transactions for every database operation

2) Which of the following will NOT help when a database begins to become too large to keep on 1 point one system

- ☐ Setting up a slave database
- ☐ Setting up daily database dump
- ☐ Archiving data
- ☐ Sharding database

No, the answer is incorrect.

Score: 0

Accepted Answers:

Setting up a slave database

Setting up daily database dump

3) In a typical master/slave database system

1 point

- ☐ Writes can be made on the master
- ☐ Writes can be made on the slave
- ☐ Reads can be made on the slave
- ☐ Reads can be made on the master

No, the answer is incorrect.

Score: 0

Accepted Answers:

Writes can be made on the master

Reads can be made on the slave

4) A SQL database view

1 point

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- ☐ Contains data not stored in the database tables
- ☐ Is not computed using a SQL query
- ☐ Is computed using a SQL query
- ☐ Is a way to improve the read time of a table in a database

No, the answer is incorrect.

Score: 0

Accepted Answers:

Is computed using a SQL query

5) Which SQL statement isn't used to update a database table schema?

- ☐ UPDATE TABLE
- ☐ ALTER TABLE
- ☐ CHANGE TABLE
- ☐ MODIFY TABLE

No, the answer is incorrect.

Score: 0

Accepted Answers:

UPDATE TABLE

CHANGE TABLE

MODIFY TABLE

6) Database normalisation does not typically

- ☐ Reduce data constraints
- ☐ Reduce chances of data anomalies
- ☐ Reduce database size
- ☐ Reduce number of tables

No, the answer is incorrect.

Score: 0

Accepted Answers:

Reduce data constraints

Reduce number of tables

7) Which of the following are not SQL aggregate functions?

- ☐ SELECT
- ☐ AVG
- ☐ JOIN
- ☐ MIN

No, the answer is incorrect.

Score: 0

Accepted Answers:

SELECT

JOIN

8) A database index

- ☐ Doesn't increase database size
- ☐ Decreases database size
- ☐ Doesn't affect database size
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

None of the above

9) Which of the following code will create an index named stu_sub on the columns roll_no and subject of the stu_subjects table? **1 point**



- ☐ create index stu_sub from stu_subjects(roll_no, subject);
- ☐ create index stu_subjects on stu_sub(roll_no, subject);
- ☐ create index stu_sub on stu_subjects(roll_no, subject);
- ☐ create index stu_sub on stu_subject(roll_no, subject);

No, the answer is incorrect.

Score: 0

Accepted Answers:

create index stu_sub on stu_subjects(roll_no, subject);

10 For table EMPLOYEE

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	Kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
7	Muffy	24	Indore	10000.00

The query `SELECT ID FROM CUSTOMERS WHERE SALARY > 5000 OR age < 25;` will produce result

- ☐ 6 7
- ☐ 3 4 5 6 7
- ☐ 1 2 3 4 5 6 7
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

None of the above

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