SQL and NoSQL Reassessment BC-101

Points: 18/25 ✓ **Correct** 1/1 Points 1. Which ACID property ensures that a transaction is treated as a single unit of work and is either fully completed or fully rolled back in case of failure? Atomicity Consistency Isolation Durability ✓ **Correct** 1/1 Points 2. You want to create a view in your database to display only the names and salaries of employees in the "Sales" department. Which SQL statement should you use? CREATE VIEW SalesEmployees AS SELECT name, salary FROM Employees WHERE department = 'Sales'; CREATE VIEW SalesEmployees AS SELECT * FROM Employees WHERE department = 'Sales';

SELECT student_name FROM students WHERE student_id IN (SELECT student_id FROM grades WHERE gpa > 3.0);

SELECT student_name FROM students WHERE gpa = (SELECT AVG(gpa) FROM students);

SELECT student_name FROM students WHERE student_id = (SELECT student_id FROM grades WHERE gpa > 3.0);

✓ **Correct** 1/1 Points

5. You have two tables, "employees" and "departments," with the following structures:

employees table:

- employee_id (unique employee identifier)
- employee_name (name of the employee)
- department_id (identifier indicating which department the employee belongs to) departments table:
- department_id (unique department identifier)
- department_name (name of the department)
- location (location of the department)

You want to find all employees who belong to the "Marketing" department. Which SQL query should you use?

SELECT employee_name FROM employees INNER JOIN departments ON employees.department_id = departments.department_id WHERE department_name = 'Marketing';
SELECT employee_name FROM employees LEFT JOIN departments ON employees.department_id = departments.department_id WHERE department_name = 'Marketing';
SELECT employee_name FROM employees RIGHT JOIN departments ON employees.department_id = departments.department_id WHERE department_name = 'Marketing';
SELECT employee_name FROM employees FULL JOIN departments ON employees.department_id = departments.department_id WHERE department_name = 'Marketing';

	✓ Correct 1/1 Points
6.	Which of the following statement is TRUE about LEFT JOIN created on two tables Table1 and Table2?
	Retrieves all the unmatched rows of Table1
	Retrieves all the unmatched rows of Table2
	Retrieves both matched and unmatched rows of Table1 and Table2
	Retrieves only matched rows of Table1 and Table2
	X Incorrect 0/1 Points
7.	You have a table named employees with the following columns: employee_id, employee_name, department_id, and salary. You want to find the total salary expenses for each department. Which SQL query should you use?
	SELECT department_id, SUM(salary) FROM employees;
	SELECT department_id, SUM(salary) FROM employees GROUP BY employee_id;
	SELECT department_id, AVG(salary) FROM employees GROUP BY department_id;
	SELECT department_id, COUNT(employee_id) FROM employees GROUP BY department_id;
	✓ Correct 1/1 Points
8.	You have a table named products with the following columns: product_id, category_id, and quantity_in_stock. You want to find the highest and lowest stock quantities for each product category. Which SQL query should you use?
	SELECT category_id, MAX(quantity_in_stock), MIN(quantity_in_stock) FROM products;

SELECT category_id, MAX(quantity_in_stock), MIN(quantity_in_stock) FROM products GROUP BY category_id;				
SELECT category_id, AVG(quantity_in_stock) FROM products GROUP BY category_id;				
SELECT category_id, COUNT(product_id) FROM products GROUP BY category_id;				
X Incorrect 0/1 Points				
9. Which of the following statements is true about subqueries in SQL?				
Subqueries are always independent and never rely on other queries.				
Subqueries are used to retrieve data from a single table only.				
Subqueries can be used in SELECT, FROM, and WHERE clauses.				
Subqueries can only be used in conjunction with stored procedures.				
X Incorrect 0/1 Points				
10. Consider a database with two tables, employees and departments. Each employee has a department_id indicating the department they belong to. You want to find the names of employees who belong to the "Sales" department. Which SQL query would you use?				
SELECT employee_name FROM employees WHERE department_id IN (SELECT department_id FROM departments WHERE department_name = 'Sales');				
SELECT employee_name FROM employees JOIN departments ON employees.department_id = departments.department_id WHERE departments.department_name = 'Sales';				
SELECT employee_name FROM employees WHERE EXISTS (SELECT department_id FROM departments WHERE department_name = 'Sales');				

11

PM	SQL and NoSQL Reassessment BC-101
~	SELECT employee_name FROM employees WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'Sales');
~ (Correct 1/1 Points
	ich type of SQL join returns all rows from the left table and the matching rows n the right table, filling in with NULL values if there is no match?
	INNER JOIN

FULL OUTER JOIN	

RIGHT JOIN

LEFT JOIN

✓ **Correct** 1/1 Points

12. What SQL statement retrieves the product names and their prices from a "products" table?

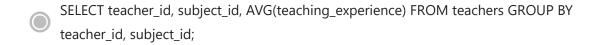
SELECT product_name, price FROM products;
SELECT product_id, category FROM products;
SELECT category, quantity_in_stock FROM products;
SELECT product_name, quantity_in_stock FROM products;

X Incorrect 0/1 Points

13. What SQL query returns the total quantity of each product in stock?

You have a "products" table with columns: product_id, product_name, price, stock_quantity.

SELECT SUM(stock_quantity) FROM products GROUP BY product_id;	
SELECT product_id, SUM(stock_quantity) FROM products;	
SELECT product_id, SUM(stock_quantity) FROM products GROUP BY product_name;	
SELECT AVG(stock_quantity) FROM products GROUP BY product_id;	
X Incorrect 0/1 Points	
14. You have a "sales" table with columns: sale_id, product_id, quantity_sold, sale_date How would you find products that were sold between 2022-01-01 and 2022-12-31?	<u>.</u>
SELECT product_id, quantity_sold FROM sales WHERE sale_date BETWEEN '2022-01-01' AND '2022-12-31';	
SELECT product_id, quantity_sold FROM sales WHERE sale_date >= '2022-01-01' AND sale_date <= '2022-12-31';	
SELECT product_id, quantity_sold FROM sales WHERE sale_date > '2022-01-01' AND sale_date < '2022-12-31';	
SELECT product_id, quantity_sold FROM sales WHERE sale_date NOT BETWEEN '2022-01-01' AND '2022-12-31';	
✓ Correct 1/1 Points	
15. You have a table named teachers with the following columns: teacher_id, teacher_name, subject_id, and teaching_experience. You want to find the average teaching experience for each teacher in each subject. Which SQL query should yo use?	u
SELECT teacher_id, AVG(teaching_experience) FROM teachers;	
SELECT teacher_id, AVG(teaching_experience) FROM teachers GROUP BY teacher_id;	
SELECT subject_id, AVG(teaching_experience) FROM teachers GROUP BY subject_id;	



✓ **Correct** 1/1 Points

16. You have two tables, "orders" and "customers," with the following structures:

orders table:

- order_id (unique order identifier)
- customer_id (customer identifier)
- order_date (date when the order was placed)

customers table:

- customer_id (customer identifier)
- customer_name (name of the customer)

orders.customer_id WHERE order_id IS NULL;

• city (city where the customer resides)

You want to retrieve a list of customers who have not placed any orders. Which SQL query should you use?

SELECT customer_name FROM customers LEFT JOIN orders ON				
customers.customer_id = orders.customer_id WHERE order_id IS NULL;				
SELECT customer_name FROM customers INNER JOIN orders ON customers.customer_id = orders.customer_id WHERE order_id IS NULL;				
SELECT customer_name FROM customers RIGHT JOIN orders ON customers.customer_id = orders.customer_id WHERE order_id IS NULL;				
SELECT customer_name FROM customers FULL JOIN orders ON customers.customer_id =				

	Correct I/I Points
17.	Which join is to be used between two tables A and B when the resultant table needs rows from A and B that match the condition and rows from A that do not match the condition?
	Outer Join
	Cross Join
	O Inner Join
	None of the above
	✓ Correct 1/1 Points
18.	When using the GROUP BY clause, which clause can be used to filter the grouped rows based on a condition?
	© GROUP HAVING
	GROUP WHERE
	GROUP FILTER
	GROUP BY
	X Incorrect 0/1 Points
19.	In an SQL JOIN operation, what is the common criteria used to connect rows from two tables?
	Row number
	Primary key

10/7/23, 5:32 PM

	○ Index
	Column values
	✓ Correct 1/1 Points
20.	You have a "products" table with columns: product_id, product_name, category, quantity_in_stock. How would you find products that belong to the "Electronics" category and have a quantity in stock greater than 10?
	SELECT product_name FROM products WHERE category = 'Electronics' AND quantity_in_stock > 10;
	SELECT product_name FROM products WHERE category = 'Electronics' OR quantity_in_stock > 10;
	SELECT product_name FROM products WHERE category = 'Electronics' AND quantity_in_stock < 10;
	SELECT product_name FROM products WHERE category = 'Electronics' OR quantity_in_stock < 10;
	✓ Correct 1/1 Points
21.	You have a "courses" table with columns: course_id, course_name, and instructor_id. What SQL query lists the unique instructor IDs?
	SELECT DISTINCT course_name FROM courses;
	SELECT DISTINCT instructor_id FROM courses;
	SELECT DISTINCT course_id FROM courses WHERE instructor_id = 'instructor_id';
	SELECT DISTINCT instructor_id FROM courses WHERE course_name = 'course_name';

X Incorrect 0/1 Points

22	1.1	C. 1	(I) I	1	1		20202
ZZ.	How can	ı vou tina	the emblove	es who were	nirea be	tore the vea	r 2020?

You have an "employees" table with columns: employee_id, first_name, last_name, hire_date. SELECT * FROM employees WHERE YEAR(hire_date) < 2020; SELECT * FROM employees WHERE hire_date < '2020-01-01'; SELECT * FROM employees WHERE hire_date <= '2020-01-01'; SELECT * FROM employees WHERE hire_date BETWEEN '2020-01-01' AND '2023-12-31'; ✓ **Correct** 1/1 Points 23. What is an advantage of using indexes in a database? Indexes reduce the storage space required for the database. Indexes enforce data integrity constraints. Indexes speed up data insertion operations. Indexes allow for faster data retrieval for specific queries. ✓ **Correct** 1/1 Points 24. What is a super key in a database? A key that is used for authentication purposes. A key that is used for data encryption.

A key that uniquely identifies each record in the table.

	None of the above
~	Correct 1/1 Points
m	ou have a view named "HighSalaryEmployees" that displays employees earning nore than \$50,000 per year. What SQL statement should you use to delete this iew?
	DROP TABLE HighSalaryEmployees;
	DELETE VIEW HighSalaryEmployees;
	REMOVE VIEW HighSalaryEmployees;
	DROP VIEW IF EXISTS HighSalaryEmployees;

This content is created by the owner of the form. The data you submit will be sent to the form owner. Microsoft is not responsible for the privacy or security practices of its customers, including those of this form owner. Never give out your password.

Powered by Microsoft Forms | Privacy and cookies | Terms of use