Assessment

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✉ Not shared

☁

Make the correct choice or fill in the blanks as required

1. Which of the following SQL statements retrieves the names and salaries of all the employees whose salary is greater than $5000?

○ SELECT name, salary FROM employees WHERE salary >5000;

○ SELECT name, salary FROM employees WHERE salary >= 5000;

○ SELECT name, salary FROM employees WHERE salary = 5000;

○ SELECT name, salary FROM employees WHERE salary <5000;

2. Which of the following SQL statements joins the "employees" table with the "departments" table using the "dept_id" column?1. Which of the following SQL statements retrieves the names and salaries of all the employees whose salary is greater than $5000?

○ A. SELECT * FROM employees INNER JOIN departments ON employees.dept_id = departments.dept_id;

○ SELECT * FROM employees JOIN departments ON employees.dept_id = departments.dept_id;

○ SELECT * FROM employees LEFT OUTER JOIN departments ON employees.dept_id = departments.dept_id;

○ SELECT * FROM employees RIGHT OUTER JOIN departments ON employees.dept_id = departments.dept_id;

3. Which of the following SQL statements retrieves the names of all the employees who work in the "Sales" department?

○ SELECT name FROM employees WHERE department = 'Sales';

○ SELECT name FROM employees WHERE dept_name = 'Sales';

○ SELECT name FROM employees INNER JOIN departments ON employees.dept_id = departments.dept_id WHERE dept_name = 'Sales';

○ SELECT name FROM employees INNER JOIN departments ON employees.dept_id = departments.dept_id WHERE department = 'Sales';

4. Which of the following SQL statements retrieves the names of all the customers who have placed at least one order?

○ A. SELECT name FROM customers INNER JOIN orders ON customers.customer_id = orders.customer_id;

○ B. SELECT name FROM customers LEFT OUTER JOIN orders ON customers.customer_id = orders.customer_id;

○ C. SELECT name FROM customers RIGHT OUTER JOIN orders ON customers.customer_id = orders.customer_id;

○ D. SELECT name FROM customers FULL OUTER JOIN orders ON customers.customer_id = orders.customer_id;

5. Which of the following SQL statements retrieves the names of all the employees whose age is greater than the average age of all the employees?

○ A. SELECT name FROM employees WHERE age >AVG(age);

○ B. SELECT name FROM employees WHERE age > (SELECT AVG(age) FROM employees);

○ C. SELECT name FROM employees INNER JOIN (SELECT AVG(age) as avg_age FROM employees) AS avg_emp ON age >avg_age;

○ D. SELECT name FROM employees HAVING age >AVG(age);

6. Which of the following SQL statements retrieves the names of all the customers who have not placed any orders?

○ A. SELECT name FROM customers WHERE customer_id NOT IN (SELECT customer_id FROM orders);

○ B. SELECT name FROM customers LEFT OUTER JOIN orders ON customers.customer_id = orders.customer_id WHERE order_id IS NULL;

○ C. SELECT name FROM customers RIGHT OUTER JOIN orders ON customers.customer_id = orders.customer_id WHERE order_id IS NULL;

○ D. SELECT name FROM customers FULL OUTER JOIN orders ON customers.customer_id = orders.customer_id WHERE order_id IS NULL;

7. Given the following output, what is the correct Spring annotation to inject a bean of the "UserRepository" class?

Exception in thread "main" org.springframework.beans.factory.NoSuchBeanDefinitionException: No qualifying bean of type 'com.example.UserRepository' available

- ○ @Component
- ○ @Service
- ○ @Repository
- ○ @Autowired

8. Given the following Hibernate log output, what is the missing SQL statement that was executed? Hibernate: select * from orders where customer_id= ?

- ○ A. SELECT * FROM customers WHERE customer_id= ?
- ○ B. SELECT * FROM items WHERE order_id= ?
- ○ C. SELECT * FROM customers WHERE order_id= ?
- ○ D. SELECT * FROM orders WHERE order_id= ?

9. Given the following output, what is the missing Hibernate mapping file XML element?

org.hibernate.MappingException: Unknown entity: com.example.Product

- ○ A. <class name="com.example.Product" table="products">
- ○ B. <entity name="com.example.Product" table="products">
- ○ C. <mapping class="com.example.Product"/>
- ○ D. <table name="products" class="com.example.Product">

10. Given the following Spring log output, what is the missing bean definition?

org.springframework.beans.factory.UnsatisfiedDependencyException: Error creating bean with name 'orderService': Unsatisfied dependency expressed through field 'orderRepository';

○ A. <bean id="orderService" class="com.example.OrderService">

○ B. <bean id="orderRepository" class="com.example.OrderRepository">

○ C. <bean id="orderService" class="com.example.OrderService"><property name="orderRepository" ref="orderRepository"/></bean>

○ D. <bean id="orderRepository" class="com.example.OrderRepository"><property name="orderService" ref="orderService"/></bean>

11. Given the following Hibernate log output, what is the missing mapping for the "OrderItem" class?

org.hibernate.MappingException: Unknown entity: com.example.OrderItem

○ <class name="com.example.OrderItem" table="order_items">

○ <entity name="com.example.OrderItem" table="order_items">

○ <mapping class="com.example.OrderItem"/>

○ <table name="order_items" class="com.example.OrderItem">

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