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|  | **Database Questions** | **Answers** |
| 1. | Which SQL statement lists the buyer names in the buyer table that are not contained in the invoice table?   1. select b.name   from buyer b  left join invoice i on b.id = i.buyer\_id  where i.buyer\_id is null;   1. select distinct b.name   from buyer b  join invoice i on b.id = i.buyer\_id;     1. select b.name   from buyer b  join invoice i on b.id = i.buyer\_id;     1. select distinct b.name   from buyer b  left join invoice i on b.id = i.buyer\_id; | a) |
| 2. | Which SQL statement returns the department number with the maximum salary given to any employee?   1. select department\_id, max(salary) from employees; 2. select max(salary) from employees group by department\_id ; 3. select department\_id, max(salary) from employees group by department\_id; 4. select max(salary) from employees; | Choose an item.  None |

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| 3. | What does the below query do:  update inv  set inv.status\_id =  (case  when inv.buyer\_id = 1 then 'In Progress'  when inv.buyer\_id = 2 then 'New'  else 'Rejected'  end)  from invoices inv;   1. Updates no invoices 2. Updates all invoices for buyer 1 to 'In Progress', buyer 2's invoices to 'New' and any other buyer's invoices to 'Rejected' 3. Updates all invoices to 'Rejected' 4. Throws exception | b) |
| 4. | Which statement below is correct to insert ‘Baker’ as the lastname in the persons table?   1. Insert into persons ('Baker') into lastname; 2. Insert into persons values ('Baker'); 3. Insert into persons (lastname) values ('Baker'); 4. Insert ('Baker') into persons (lastname); | d) |
| 5. | What is the output of the below query?  *MS SQL:* select substring('123456789', charindex('b', 'abcabcabc'), 4);  *Oracle:* select substr('123456789', instr('abcabcabc', 'b'), 4) from dual;   1. 6789 2. 2345 3. 1234 4. 456789 | b) |
| 6. | A table my\_numbers has 6 number values: 1, 2, null, 1, 1, null. Predict the output of the below query:  select count(num) from my\_numbers;   1. 6 2. 4 3. 3 4. Throws exception because count function does not work with null value | b) |

**Cucumber**

* Implement a feature file in java that compares two lists to ensure they contain the same items with three attributes (name, price, and category), regardless of order. If there are discrepancies, log a detailed message specifying which items and columns do not match. You can use any Java versions, libraries, frameworks and tools.
* Feature file which should be implemented is located here: https://github.com/matepapphu/interview/blob/main/task.feature

**Cypress**

Write a Cypress test in GitHub (or send code in text editor) to perform the following actions:

1. Open the page: <https://www.globalsqa.com/angularJs-protractor/BankingProject/#/login>

2. Log in using the customer 'Harry Potter'

3. Deposit 100, 10 and 5. Check always that the confirmation message contains 'Deposit Successful'

4. Verify that the Balance is 115

5. Check that the sum of the amounts in the Transaction screen is equal to 115

6. Implement github pipeline (using github actions) that automatically runs the test suite inside docker