Sql joins multiple choice questions with answers

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Practice questions DB

1. List the customer number, name (first and last), and balance of customers.

select custno, custfirstname, custlastname, custbal from customer

2. List the customer number, name (first and last), and balance of customers who reside in Colorado (CustState is 'CO').

select custno, custfirstname, custlastname, custbal from customer where custstate='CO

3. List all columns of the Product table for products costing more than \$50. Order the result by product manufacturer (ProdMfg) and product name

select * from product where prodprice > 50 order by prodmfg, prodname

4. List the order number, order date, and shipping name (OrdName) of orders sent to addresses in Denver or Englewood.

select ordno, orddate, ordname from ordertbl where ordcity='Denver' OR ordcity='Englewood'

5. List the customer number, name (first and last), city, and balance of customers who reside in Denver with a balance greater than \$150 or who reside in Seattle with a balance greater than \$300.

select custno, custfirstname, custlastname, custcity, custbal from customer where custcity='Denver' and custbal >150 OR custoity='Seattle' and custbal > 300

6. List the cities and states where orders have been placed. Remove duplicates from the result

select distinct ordcity, ordstate from ordertbl

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7. List all columns of the OrderTbl table for Internet orders placed in January 2004. An Internet order does not have an associated employee.

select * from ordertbl where orddate between '01-Jan-04' and '31-Jan-04 and empno is null

8. List all columns of the OrderTbl table for phone orders placed in February 2004. A phone order has an associated employee select

Write a query based on the CUSTOMERS and ORDERS tables which will list the first and last name of each customer stored in the customers table, and, if the customer has placed an order that is contained in the ORDERS table, the order# of any order each customer has placed.



CLASS EXERCISES: SQL NAME :

1. Which SQL function is used to count the number of rows in a SQL query?

MATRIC.NO :

- A. COUNT() B. NUMBER() C. SUM()
- 2. The FROM SQL clause is used to ..

specify range for search condition Specify search condition

C. Specify what table we are selecting or deleting data from.

3. Which of the following is NOT a SQL keyword or SQL clause?

- INSERT SELECT UPDATE
- 4. The UNION SQL clause can be used with ... The SELECT clause only
- The DELETE and UPDATE clauses The UPDATE clause only
- None of the other three
- 5. What does DML stand for?
- Different Mode Level
- Data Model Language Data Mode Lane
- Data Manipulation language
- 6. Which SQL keyword is used to retrieve a maximum value?
- MOST TOP
- MAX MAXVAL
- 7. Which SOL statement inserts data into a table called Projects INSERT INTO Projects (ProjectName, ProjectDescription) VALUES ('Content
- Development', 'Website content development project') SAVE INTO Projects (ProjectName, ProjectDescription) VALUES ('Content
- Development', 'Website content development project' INSERT Projects VALUES ('Content Development', 'Website content
- development project') INSERT Projects ('Content Development', 'Website content development

8. Which of the following SQL clauses is used to enter data into a SQL table?

- INSERT INTO
- ADD SELECT ENTER

This set of SQL Server Multiple Choice Questions & Answers (MCQs) focuses on "Joins". 1. What type of join is needed when you wish to include rows that do not have matching values? a) Equi-join b) Natural join c) Outer join d) All of the Mentioned View AnswerAnswer: c Explanation:OUTER JOIN is the only join which shows the unmatched rows. 2. What type of join is needed when you wish to return rows that do have matching values? a) Equi-join b) Natural join c) Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanation: Outer join d) All of the Mentioned View AnswerAnswer: d Explanat Subqueries b) Union Join c) Natural join d) All of the Mentioned View AnswerAnswer: d Explanation: The SQL subquery is a SELECT query that is embedded in the main SELECT statement. In many cases, a subquery is a SELECT query that is embedded in the main SELECT statement. SELECT CUSTOMER T. CUSTOMER ID, ORDER T. CUSTOMER ID, NAME, ORDER ID, NAME, ORDER ID FROM CUSTOMER T. CUSTOMER T. CUSTOMER ID = ORDER T. table contains department id and another table should contain department id. 5. A UNION query is which of the following? a) Combines the output from no more than two queries and does not include the same number of columns c) Combines the output from multiple queries and must include the same number of columns d) Combines the output from multiple queries and does not include the same number of columns View AnswerAnswer: c Explanation: A single UNION can combine only 2 sql query at a time. Take SQL Server Tests Now! 6. Which of the following statements is true concerning subqueries? a) Involves the use of an inner and outer query b) Cannot return the same result as a query that is not a subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not start with the word SELECT d) All of the mentioned View AnswerAnswer: a Explanation: Subquery c) Does not language (DML) statement or nested within another subquery? a) Uses the result of an outer query to determine the processing of an outer query b) Uses the result of an inner query to determine the processing of an outer query? inner query d) Uses the result of an outer query to determine the processing of an outer query view AnswerAnswer: a Explanation: A 'correlated subquery' is a term used for specific types of queries in SQL in computer databases. It is a subquery (a query nested inside another query) that uses values from the outer query in its WHERE clause. 8. How many tables may be included with a join? a) One b) Two c) Three d) All of the Mentioned View AnswerAnswer: d Explanation: Join can be used for more than one table. For 'n' tables the no of join conditions required are 'n-1'. 9. The following SQL is which type of join: SELECT CUSTOMER T. CUSTOMER ID, NAME, ORDER ID FROM CUSTOMER T, ORDER T? a) Equi-join b) Natural join c) Outer join d) Cartesian join View AnswerAnswer: d Explanation: Cartesian join view AnswerAnswer: d Explanation: Cartesian join c) Outer join d) Cartesian join view AnswerAnswer: d Explanation: Cartesian join view AnswerAnswer View AnswerAnswer: b Explanation: A NATURAL JOIN is an inner join where the RDBMS automatically selects the join columns based on common columns bas e Server, here is complete set of 1000+ Multiple Choice Questions and Answers. Next Steps: Get Free Certificate of Merit in SQL Server Take SQL Server Take SQL Server Tests Chaptervise Practice Tests: Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Chapterwise Mock Tests: Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Manish Bhojasia, a technology veteran with 20+ years @ Cisco & Wipro, is Founder and CTO at Sanfoundry. He lives in Bangalore, and focuses on development of Linux Kernel, SAN Technologies, Advanced C, Data Structures & Alogrithms. Stay connected with him at LinkedIn. Subscribe to his free Masterclasses at Youtube & technical discussions at Telegram SanfoundryClasses. Have you ever wondered what SQL JOIN questions you might be asked in an interview? Do you feel prepared to answer them? This article covers the most common SQL JOIN interview? Do you feel prepared to answer them? likely be asked about your SQL JOIN knowledge. SQL JOIN clauses are a great topic for interviewers to quiz you on. There are many great resources for learning about SQL JOIN clauses, such as LearnSQL.com's interactive SQL JOINs course. However, this article approaches the topic with an interview in mind and covers some of the most common SQL JOIN interview questions you can expect to face. 1. What is an SQL JOIN command is used to combine data from two tables in SQL. The JOIN clause is often used when tables have at least one column of data in common. Typically, the JOIN condition is an equality between columns from the different tables, but other JOIN conditions are also possible. You can join more than two tables by using consecutive JOIN command is illustrated by this image: 2. How would you write a query to JOIN these two tables? During the interview process, you may be tasked with applying your knowledge to a practical scenario by writing a JOIN command. Let's look at an example so that you can solve this problem with ease. We have two tables: employees - This table contains each employee's ID, name, and department ID. idemployee namedepartment id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department's ID and name. department's ID and name. department id department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department's ID and name. Development If you have been asked to JOIN tables, try to find a column that exists in each of the tables. In this example, it is the department id = department id = department id; Executing this code will produce the following result: idemployee namedepartment iddepartment iddepartment and the one after FROM and the one after JOIN) should be combined. You can see in the example above that both tables contain the column department id. Our SQL query will return rows where the employees department id is equal to the department id is equal to the department id. Sometimes relational fields are slightly less obvious. For example, you might have a table called id, which could be joined against employee id in any other table. You can also specify what exact columns you would like to return from each of the tables included in your JOIN clause. When you include a column name that exists in both tables, you must specify the exact table you want to retrieve it from. We cannot write department id because this would cause an ambiguity error in SQL. We must write employees.department id, employees. department id column because this column exists in both of the tables that make up our JOIN clause. We don't have to do this for the columns employee name or department name 1Ned FlandersSales 3Clancy WiggumHuman Resources 4Homer SimpsonCustomer Service 5Barney GumbleResearch And Development When writing our SQL JOIN clauses, we can also employ the use of SQL aliases. Column names can be quite technical and not very understandable. This can make the query's output difficult to understand. Here are some rules to follow when implementing an SOL alias: To give a column a descriptive name, you can use a column alias. To assign an alias to a column, use the AS keyword followed by the alias contains spaces, you must guote it. An SOL alias can be applied to both table names and column names. If we rewrite our previous guery to include an alias for each column name, it may look something like this: SELECT employees.department id AS ID, employee Name', department id; Notice how we had to use quotes for our 'Employee Name' column because this new name contains spaces. If we rewrite our above code, this time using an alias for each table name, we get the following: SELECT * FROM employees AS emp JOIN department id; The AS keyword used here is also completely optional. You can omit it from the statement. Implementing this small change results in our code looking like so: SELECT * FROM employees emp JOIN departments dep ON emp.department id; This should be all the information you need to JOIN two tables and answer any follow-up questions you might be asked regarding the basic JOIN syntax. As mentioned in the introduction to this article, there are many varieties of the SQL JOIN clause. Demonstrating that you have mastery of each command is one method of displaying your SQL JOIN knowledge. Here are some of the most common types of JOIN clauses you will encounter: SQL INNER JOIN the INNER JOIN clause is the default JOIN clause in SQL. If you look at our previous example (SELECT * FROM employees JOIN departments), this was actually an INNER JOIN. The INNER JOIN is used to return rows from both tables that satisfy the given condition. This image demonstrates the relationship between the two tables included in our INNER JOIN clause: Let's explore the INNER JOIN syntax and functionality further by looking at a practical example using the two tables, employees and departments tables based on the department id column. SELECT * from employees emp INNER JOIN departments dep ON emp.department id = dep.department id; Executing this code will produce the following result: idemployee namedepartment iddepartment iddepa will notice our employee, Moe Szyslak, is missing. In our employees table, this employee has no current department id. Therefore, no match could be found when you try to JOIN the departments table on this column. Thus, the employee is excluded from the result. We'll fix this problem with the next JOIN type, LEFT JOIN. If you want to see more examples of INNER JOINs, looking at an article with visual, easy-to-understand examples can help you grasp this complex topic. SQL LEFT JOIN allows you to query data from two tables. But what is the key difference between LEFT JOIN and INNER JOIN? A LEFT JOIN returns all the rows that are in the first (left) table listed. Matching rows from the right table are also returned. When you use the LEFT JOIN clause, the concepts of the left table, and Table 2 is the right table. The LEFT JOIN clause, the concepts of the left table are introduced. In the diagram above, Table 1 is the left table, and Table 2 is the right table are introduced. In the diagram above, Table 1 is the left table. left table with rows from the right table, even if there are no matches to be found in the right table, even if there are no matches to be found in the right table. This means that if the ON clause matches no records in the right table, even if there are no matches to be found in the right table. from the right table. An SQL LEFT JOIN returns all the values from the left table, plus matched values from the right table. If no match could be found, LEFT JOIN returns a NULL value instead. The syntax for our SQL LEFT JOIN returns a NULL value instead.

dep.department id; We specify we want a LEFT JOIN. This will be the same for all JOIN types. Specify which variant of JOIN you are using before the JOIN keyword. The ON keyword works the same as it did for our INNER JOIN example. We are looking for matching values between the department id column of our employees table and the department id column of our departments table. Here, our employees table will act as the left table because this is the first table we specify. The result from executing this SQL query would be the following result set: idemployee namedepartment iddepartment iddepa 3Barney Gumble55Research And Development 4Clancy Wiggum33Human Resources 5Moe SzyslakNULLNULL Notice how our employee, Moe Szyslak, has been included in the result set, even though there is not a matching department_id in the department_id in the department. our left table, regardless of whether any matches were found. SQL RIGHT JOIN RIGHT JOIN, except that the action performed on the joined tables is reversed. Essentially, it executes the opposite action of the LEFT JOIN. This means that a RIGHT JOIN returns all the values from the right table, plus matched values from the left table or NULL in case of no matching JOIN predicate. In the diagram below, Table 2 is our right table, and Table 1 is our left table: When we apply the following code to our employees and department_id; The syntax is similar to that of the LEFT JOIN. We specify that we want to perform a RIGHT JOIN, specifically looking for matches between the departments table and the employees table. Here, our employees table will act as the left table, as this is the first table we specify. The departments table will be the right table. The result from executing this SQL JOIN query would be the following result set: idemployee namedepartment iddepartment iddepartment and Even Sumpson 44 Customer Service 3Barney Gumble 55 Research And Development The RIGHT JOIN starts selecting data from the right table (departments). It matches each row from the right table with every row from the left table. If both rows cause the JOIN condition to evaluate to true, it combines the columns into a new row and includes this new row in the result set. SQL FULL JOIN The SQL FULL JOIN The SQL FULL JOIN combines the results of both left and right outer joins. The joined table will contain all records from both the tables and fill in NULL values for missing matches on either side. Be aware that a FULL JOIN can potentially return a very large dataset. A FULL JOIN is a type of OUTER JOIN (we'll look at these later in the article) which is why it can also be referred to as a FULL OUTER JOIN. Here is the concept of an SQL FULL JOIN clearly illustrated: Notice how in our diagram, every row from both tables is returned. Let's look at the syntax of the SQL FULL JOIN clearly illustrated: Notice how in our diagram, every row from both tables is returned. Let's look at the syntax of the SQL FULL JOIN clearly illustrated: Notice how in our diagram, every row from both tables is returned. dep.department_id; When this SQL query is executed against our employees and department_iddepart 5Moe SzyslakNULLNULL 2Ned Flanders11Sales NULLNULL2Engineering 4Clancy Wiggum33Human Resources 1Homer Simpson44Customer Service 3Barney Gumble55Research And Development Compare this result set with the results of our LEFT JOIN and RIGHT JOIN. You will see how this data is a combination of the data returned from our previous examples. This specific type of JOIN clause produces a vast data set. Think carefully before using the FULL JOIN clause returns the result set includes every row from each contributing table. The CROSS JOIN clause returns the Cartesian product of rows from the joined tables. The diagram below is a good illustration of how the rows are combined: Using a CROSS JOIN produces a result is called the Cartesian Product of two tables (Table 1 x Table 2). Let us look at our two tables from earlier: idemployee namedepartment id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL dep would write an SQL query like so: SELECT * FROM employees CROSS JOIN departments; Notice how CROSS JOIN does not use ON or USING when it is being declared. This is different from the JOIN clauses we have previously looked at. After performing a CROSS JOIN, the result set would look as follows: idemployee_namedepartment_iddepartment_iddepartment_name 1Homer Simpson41Sales 2Ned Flanders11Sales 3Barney Gumble51Sales 4Clancy Wiggum31Sales 5Moe SzyslakNULL2Engineering 3Barney Gumble51Sales 4Clancy Wiggum32Engineering 5Moe SzyslakNULL2Engineering 5Moe SzyslakNULL2Engineering 3Barney Gumble51Sales 4Clancy Wiggum31Sales 5Moe SzyslakNULL2Engineering 5Moe Szysl 1Homer Simpson43Human Resources 2Ned Flanders13Human Resources 3Barney Gumble53Human Resources 4Clancy Wiggum34Customer Service 5Moe SzyslakNULL4Customer Service 1Homer Simpson45Research And Development 3Barney Gumble55Research And Development 3Barney Gumble55Research And Development 3Barney Gumble55Research And Development 4Clancy Wiggum35Research 4Clancy when the tables used have little data, such as our employees and departments tables, it can produce a massive result set when they are used in conjunction with the SQL CROSS JOIN clause. SQL NATURAL JOIN is a type of JOIN that combines tables based on columns with the same name and data type. When you use the NATURAL JOIN clause, it creates an implicit JOIN clause for you based on the common columns in the two tables being joined. Common columns are columns are columns are columns that have the same name in both tables. There is no need to specify the column names to join. The resulting table will not contain any repeated columns. The syntax for a NATURAL JOIN is simple: SELECT * FROM employees NATURAL JOIN department; When this query is executed, it will produce the following result set: department_ididemployee_namedepartment_s; When this query is executed, it will produce the following result set: department_ididemployee_namedepartment_s; When this query is executed, it will produce the following result set: department_ididemployee_namedepartment_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When this query is executed, it will produce the following result set: department_s; When the following result set; department_s; Whe performed on the column that is shared between our two tables. In this case, it is the department_id column. This matched column is only displayed once in our result set. 4. What is an OUTER JOIN? With an SQL OUTER JOIN, unmatched rows in one or both tables can be returned. There are several variations of the OUTER JOIN clause, some of which we have covered already in this article. Here are the common types of OUTER JOIN clauses: LEFT OUTER JOIN RIGHT OUTER JOIN. The functionality of both is identical. This may be one of the SQL JOIN interview questions you are asked! The same can be said for RIGHT JOIN and RIGHT OUTER JOIN, and FULL JOIN and FULL OUTER JOIN. Let's look at an example for each. SQL LEFT OUTER JOIN use a LEFT OUTER JOIN will return only matching rows from the second table. The syntax for the LEFT OUTER JOIN clause is as follows: SELECT * FROM employees emp LEFT OUTER JOIN departments dep ON emp.department id = dep.department id; The result from executing this SQL query would be the following result set: idemployee namedepartment id/epartment id/epa Gumble55Research And Development 4Clancy Wiggum33Human Resources 5Moe SzyslakNULLNULLNULL Notice how our employee, Moe Syzslak, has been included in the result set even though there is not a matching department id in the department stable. This is exactly the purpose of the LEFT OUTER JOIN clause, to include all the data from our left table, regardless of whether any matches were found. SQL RIGHT OUTER JOIN is similar to LEFT OUTER JOIN, except that the action performs the opposite action of the LEFT OUTER JOIN. This means that a RIGHT OUTER JOIN returns all the values from the right table, plus matched values from the left table or NULL in case of no matching. When we apply the RIGHT OUTER JOIN to our employees and departments dep ON emp.department id = dep.department_id; Here, our employees table will act as the left table because this is the first table we specify. The result from executing this SQL query would be the following result set: idemployee namedepartment iddepartment iddepartm And Development The RIGHT OUTER JOIN starts selecting data from the right table, in this case, our departments table. It matches each row from the result set. SQL FULL OUTER JOIN The SQL FULL OUTER JOIN combines the results of both left and right outer joins. The joined tables and fill in NULLs for missing matches on either side. A FULL OUTER JOIN returns all the rows from the joined tables, whether they are matched or not. Let's look at the syntax of the SQL FULL OUTER JOIN clause: SELECT * FROM employees emp FULL OUTER JOIN departments dep ON emp.department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees and department id; When this SQL query is executed against our employees against our employees against our employees against our employees Service 2Ned Flanders11Sales 3Barney Gumble55Research And Development 4Clancy Wiggum33Human Resources 5Moe SzyslakNULLNULL2Engineering 4Clancy Wiggum33Human Resources 1Homer Simpson44Customer Service 3Barney Gumble55Research And Development You will notice that this dataset is a combination of our previous LEFT OUTER JOIN and an SQL LEFT JOIN? There are some key differences to remember about these commonly used JOIN variants. INNER JOIN returns rows when there is a match in both tables. LEFT JOIN returns all offerences to remember about these commonly used JOIN variants. the rows from the left table and any matching rows from the right table. Let's look at a practical example to explore the differences between these clauses. This will help you confidently answer this common SQL JOIN interview question. Imagine we have two tables: employees - This table contains each employee's ID, name, and department ID. idemployee_namedepartment_id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department_iname 1Sales 2Engineering 3Human Resources 4Customer Service 5Research and Development The following SQL code looks for matches between the employees and department id column: SELECT * from employees emp INNER [OIN department id column: Select * from employees emp INNER [OIN Service 2Ned Flanders11Sales 3Barney Gumble55Research and Development 4Clancy Wiggum33Human Resources When looking at our result, you will notice our employee has no current department_id. Therefore, no match could be found when you try to join the departments table on this column. Thus, the employee is excluded from the result. Now, let's use a LEFT JOIN and see what result that produces. An SQL LEFT JOIN returns all the values from the right table. If no match could be found, LEFT JOIN returns all the values from the right table. SELECT * FROM employees emp LEFT JOIN department id = dep.department id; The ON keyword works the same as it did for our INNER JOIN example. We are looking for matching values between the department id column of our department id; The ON keyword works the same as it did for our INNER JOIN example. employees table will act as the left table because this is the first table we specify. The result of executing this SQL query is the following result set: idemployee namedepartment iddepartment JOIN questions that you may face throughout the interview process. As we mentioned before, an SQL LEFT JOIN returns all the values from the left table, plus matched values from the joined tables, whether they are matched or not. It essentially combines the functionality of LEFT JOIN and RIGHT JOIN. Let's compare the result set of a LEFT JOIN clause to the result set of a FULL JOIN. Below is a query that makes use of LEFT JOIN clause to the result set of a FULL JOIN. act as the left table because this is the first table we specify. The result of executing this SQL query is: idemployee namedepartment iddepartment Let's look at how this compares to using an SQL FULL JOIN. The syntax is similar, as demonstrated by this code: SELECT * FROM employees emp FULL JOIN department id = dep.department id; When this SQL query is executed against our employees and departments tables, it produces the following result: queries. You can see that no match was found for the Engineering department, but it was still returned. It's clear this data is a combination of the data set. Think carefully before using an SQL FULL JOIN. 7. Write a query that will JOIN these two tables so that all rows from Table 1 are in the result. When interviewing for a data analyst or software developer role, you may be asked to complete a technical challenge involving SQL. A common SQL JOIN interview task is writing a query that will join two tables so that all rows from Table 1 are in the result. First, you must understand the concept of right and left tables. In the diagram above, Table 1 is the left table and Table 2 is the right table comes after the JOIN keyword. The LEFT JOIN clause selects data starting from the left table. It matches each row from the left table, plus matched values from the right table, plus matches no the right table. If no match is found, LEFT JOIN returns a NULL value. This means that if the ON clause matches no records in the right table, the JOIN will still return that row, but with a NULL in each column from the right table. For our previous example: employees - This table contains each employees and department id 1Homer Simpson4 2Ned Flanders1 3Barney Gumble5 4Clancy Wiggum3 5Moe SyzslakNULL department iddepartment's ID and name. department iddepartment iddepartment is each department's ID and name. department is each department iddepartment is each department iddepartment iddepartment in the second and name. specify this as our left table. The syntax for this LEFT JOIN clause is as follows: SELECT * FROM employees emp LEFT JOIN department id; Executing this result set: idemployee namedepartment iddepartment id = dep.department id; Executing this result set: as follows: SELECT * FROM employees emp LEFT JOIN department id; Executing this result set: idemployee namedepartment iddepartment id; Executing this result set: idemployees emp LEFT JOIN department id; Executing this result set: idemployees emp LEFT JOIN department id; Executing this result set: idemployee namedepartment iddepartment id; Executing this result set: idemployees emp LEFT JOIN department id; Executing this result set: idemployees emp LEFT JOIN department id; Executing this result set: idemployees emp LEFT JOIN department idemployees emp LEFT JOIN depa Flanders11Sales 3Barney Gumble55Research and Development 4Clancy Wiggum33Human Resources 5Moe Szyslak NULLNULL Notice that the employee Moe Szyslak has been included in this result set - even though there is no matching department_id in the department_id in the department stable. the data from our left table, regardless of whether any matches were found in the right table. Joining more than two tables in a single SQL query can be quite difficult for newcomers to understand. The following example should make it clear. You perform a JOIN on more than two tables when the data you want to include in the result exists in three or more tables. A multi-table join requires consecutive JOIN operations: first, you join the first and the second table and get a virtual result set; then you join another table to this virtual table. Let's see an example. For our multiple JOIN example, let's imagine we have three tables: department's ID and name. department iddepartment name 1Sales 2Engineering 3Human Resources 4Customer Service 5Research and Development office. idaddress 15 Wisteria Lane, Springfield, USA 2124 Chestmount Street, Springfield, USA 36610 Bronzeway, Springfield, USA 4532 Executive Lane, Springfield, USA 510 Meadow View, Springfield, USA department office - This table links the office information to the associated department. Some department id 11 23 32 44 55 21 51 43 In our case, we have used a link table called department office which links or relates departments to office. To write an SQL query that prints the department name and address attributes alongside each other, we need to join three tables: The first JOIN clause will join departments and departments and department office table on office id to get the desired result. Examine the SQL query below: SELECT department_id=do.depart both our departments and office tables. This enables us to then join the office table, which contains the address column in our SELECT statement. Executing this code yields the following result set: department_nameaddress Sales5 Wisteria Lane, Springfield, USA Human Resources6610 Bronzeway, Springfield, USA Customer Service532 Executive Lane, Springfield, USA Research and Development10 Meadow View, Springfield, USA Sales124 Chestmount Street, Springfield, USA Sales10 Meadow View, Springfiel department and its corresponding address. Notice how our Sales department is the largest, spanning three different offices. You can see how JOIN clauses can be used on multiple tables to create links between tables that have columns in common. There are many set of the second largest department is the largest department department is the largest department dep different situations when joining multiple tables can be useful; for more information, check out this article on how to JOIN three or more tables in SQL. 9. How do you join a table to itself? Many beginners don't realize it, but you can join a table to itself. comparing rows within the same table. When using a self-join, it is important to use a SQL alias for each table. For our self-join example, we will use the following table: employee - This table stores all company employees' names, the IDs of their managers. idemployees' names, the IDs of their managers. Burns4NULL 2Waylon Smithers11 3Homer Simpson21 4Carl Carlson51 5Lenny Leonard31 6Frank Grimes23 Say we want a result set that only shows employees with their managers. This can easily be done using table aliases in combination with a self-join. We will use an SQL LEFT JOIN for our first self-join. Look at the code below: SELECT e.employee_name AS 'Employee', m.employee a CEFT JOIN employee e LEFT JOIN employee e LEFT JOIN employee m ON m.id = e.manager_id Watch out for the ambiguous column error, which can easily occur if you are not careful when writing a self-join query. To avoid this error, you must make good use of SQL aliases - i.e. by giving an alias to each occurrence of the table in your SQL query. This is demonstrated by the following snippet from the above query: FROM employee m You must also prefix column is referring to is clear. We have explicitly specified e.employee m You must also prefix column names with the table each column is referring to is clear. help you successfully execute a SQL self-join query while avoiding the ambiguous column error. Executing the above query yields the following result set: EmployeeManager Montgomery Burns NULL Waylon SmithersMontgomery Burns Frank GrimesHomer Simpson There's our desired result! You can clearly see each employee and their corresponding manager. Most employees report to Mr. Burns, although the manager for Frank Grimes is Homer Simpson. Notice the NULL value under the Manager for Frank Grimes is Homer Simpson. Notice the NULL value under the Manager for Frank Grimes is Homer Simpson. is the boss. Let's tweak the query slightly and use an INNER JOIN this time: SELECT e.employee name AS 'Employee name AS 'Employee mon ager' FROM employee name AS 'Employee', m.employee name AS 'Employee', m.employee', m.employee', m.employee name AS 'Employee', m.employee', m.emplo Lenny LeonardMontgomery Burns Frank GrimesHomer Simpson The only major difference is the absence of Montgomery Burns from the Employee column. This is because the manager_id value for him was NULL; INNER JOIN only returns matching columns, with NULL values excluded. Now you can perform self-joins, which are applicable in many different use cases. If you want to see more examples of self-joins, check out this excellent illustrated guide to self-joins. A non-equi join is any JOIN clause that does not use equality (=) as the JOIN condition. You can use common comparison operators (e.g., =, !=, and) in conjunction with join clauses. The BETWEEN operator can also be used. There are many situations where non-equi joins can prove useful, including listing unique pairs, listing records within a range, and identifying duplicates using a non-equi join. First, look at the data which we will be querying. We'll be using just one table, the familiar employee table for this example: idemployee namedepartment idmanager id 1Montgomery Burns4NULL 2Waylon Smithers11 3Homer Simpson21 4Carl Carlson51 5Lenny Leonard31 If we wanted to guickly identify any duplicate values, we'd write the following guery, which makes good use of a non-equi join: SELECT e1.id, e1.employee name, e2.id, e2.employee e1 JOIN employee e2 ON e1.employee e2 ON e1.employee name = e2.employee name AND e1.id < e2.id Taking a closer look at the JOIN clause, we can see it has two conditions: It matches records that have the same name. It retrieves records where the ID is less than the ID of the temporary self-joined table. Executing this guery yields the following result set: idemployee name 5Lenny Leonard7Lenny Leonard7Lenny Leonard We can see that Lenny Leonard7Lenny Leonard7Lenny Leonard We can see that demonstrate the usefulness of non-equi joins. There are other excellent resources available online, such as this article that shows practical applications of non-equi joins. The Top 10 SQL Interview Questions. If you still feel overwhelmed or unsure about SQL JOIN clauses, there is excellent advice about the best approach to practicing SQL JOIN clauses here. You can use this in combination with the SQL or feel like you need to refresh your knowledge of the topic, this interactive

SQL JOINs course serves as a wonderful learning resource.

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