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Ms sql server interview questions pdf

Crack SQL Performance Tuning Interview.

Q-1. What is SQL Query Optimization?

Ans. Query Optimization is the process of writing the query in a way so that it could execute quickly. It is a significant step for any standard application.

Q-2. What are some tips to improve the performance of SQL queries?

Ans. Optimizing SQL queries can bring substantial positive impact on the performance. It also depends on the level of RDBMS knowledge you have. Let's share a few tips for tuning SQL queries.

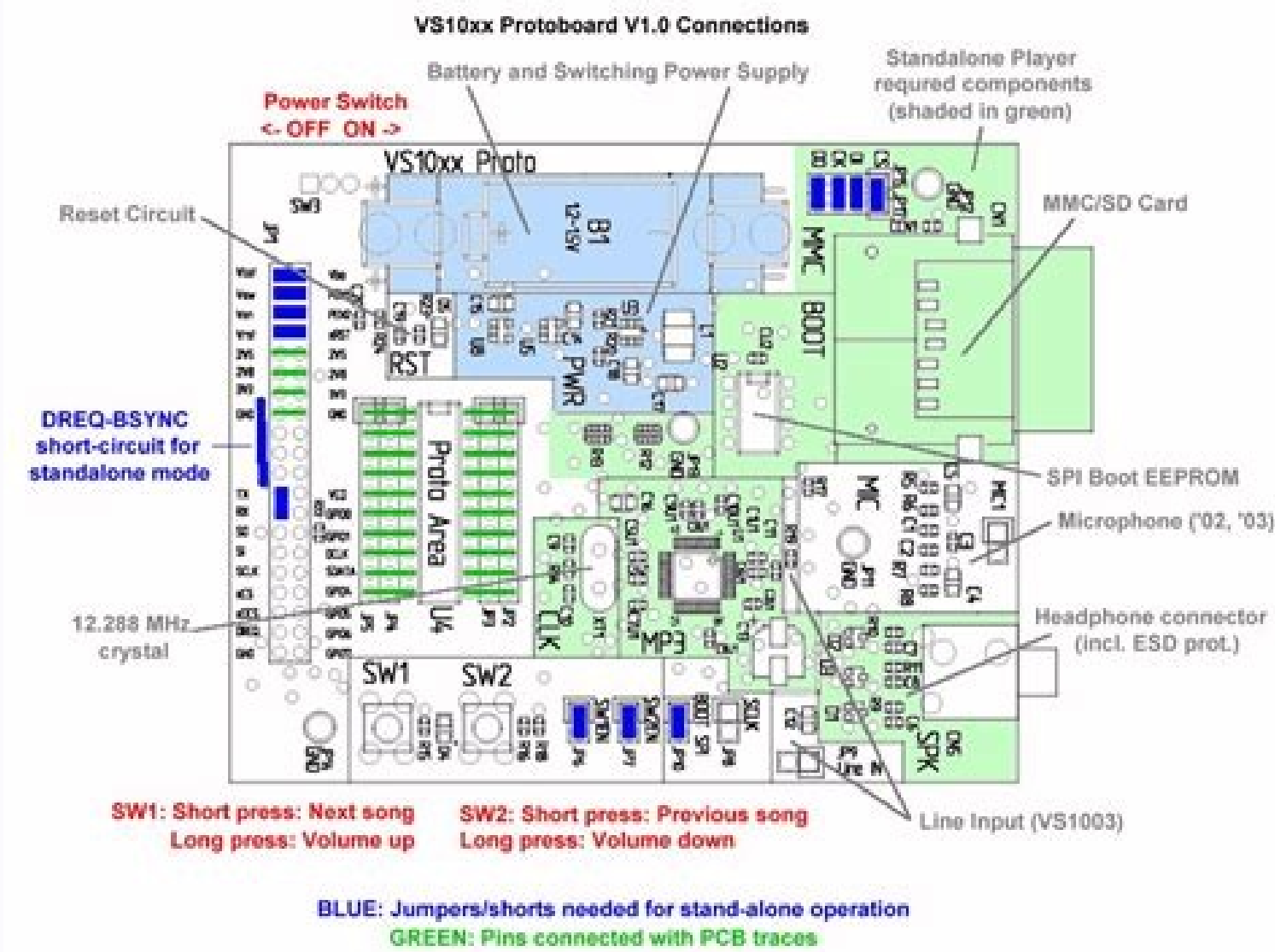
1. Prefer to use views and stored procedures in spite of writing long queries. It'll also help in minimizing network load.
2. It's better to introduce constraints instead of triggers. They are more efficient than triggers and can increase performance.
3. Make use of table-level variables instead of temporary tables.
4. The UNION ALL clause responds faster than UNION. It doesn't look for duplicate rows whereas the UNION statement does that regardless of whether they exist or not.
5. Prevent the usage of DISTINCT and HAVING clauses.
6. Avoid excessive use of SQL cursors.
7. Make use of SET NOCOUNT ON clause while building stored procedures. It represents the rows affected by a T-SQL statement. It would lead to reduced network traffic.
8. It's a good practice to return the required column instead of all the columns of a table.
9. Prefer not to use complex joins and avoid disproportionate use of triggers.
10. Create indexes for tables and adhere to the standards.

Q-3. What are the bottlenecks that affect the performance of a Database?

Ans. In a web application, the database tier can prove to be a critical bottleneck in achieving the fast mile of scalability. If a database has performance leakage, that can become a bottleneck and block to solve the issue. Some of the common performance issues are as follows.

1. Abnormal CPU usage is the most obvious performance bottleneck. However, you can fix it by extended CPU units or resolving with an advanced CPU. It may look like a simple issue but abnormal CPU usage can lead to other problems.

Fuel quantity Now	Date	Fuel quantity Before	Date
1 12	2014-04-25 14:00:00.000	6	2014-04-25 13:00:00.000
2 10	2014-04-25 19:00:00.000	8	2014-04-25 18:00:00.000
3 15	2014-04-25 23:00:00.000	7	2014-04-25 22:00:00.000



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Example: SELECT employeeID, firstName, lastName FROM employees WHERE departmentID IN (SELECT departmentID FROM departments WHERE locationID = 2000) ORDER BY firstName, lastName; SQL Interview Questions for Developers 1. Once the installation is complete, refresh or restart the system, as required. It also explains the data types that are used. Third Normal Form: A relation R is said to be in 3NF if and only if: It is in 2NF. By using the SET ROWCOUNT command. Difference between NVL and NVL2 functions? To understand exactly what is MySQL, we need to understand what is DBMS and RDBMS. This would automatically restore the database. 40. Here is an example of LIKE operator SELECT * FROM employees WHERE first_name like 'Steven'. With this command, we will be able to extract all the records where the first name is like "Steven". 1. This is the command to change the name of a column in ORACLE: ALTER TABLE Customer RENAME COLUMN Address TO Addr; In ORACLE, we will start off by using the ALTER TABLE keywords, then we will give in the name of the table. The group by clause combines all those records that have identical values in a particular field or any group of fields. 26. A schema is a collection of database objects in a database for a particular user/owner. How to find server name in SQL Server Run the query SELECT @@version; to find the version and name of the SQL Server you are using. 28. INITCAP: converts initial character of each word to uppercase 29. Frequently Asked Questions in SQL 1. ISAM 42. You can consider stored procedures in SQL to be analogous to functions in other languages. No partial dependency exists between non-key attributes and key attributes. Lets take an example: Select * into studentcopy from student where 1=2 Here, we are copying student table to another table with the same structure with no rows copied. There are some platforms available online that can help you practice SQL such as SQL Fiddle, SQLZOO, W3resource, Oracle LiveSQL, DB-Fiddle, Coding Groud, GitHub and others. 5. DDL (Data Definition Language): Used to define the data structure it consists of the commands like CREATE, ALTER, DROP, etc. b. SYNTAX : SELECT table1.col1, table2.col2,..., table1.coln FROM table1 LEFT JOIN table2 ON table1.commonfield = table2.commonfield; RIGHT JOIN: The 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. If none of the conditions is met in the When statements, then the value mentioned in the Else statement is returned. Syntax: CASE WHEN CONDITION1 THEN RESULT1 WHEN CONDITION2 THEN RESULT2 ELSE RESULT END; Sample query: HOW MANY HEAD OFFICES/ BRANCHES ARE THERE IN CANADA select sum (case when region_id >= 5 AND region_id != 7 then 1 else 0 end) as num_head_offices from employees; The HAVING clause cannot contain aggregate functionsThe HAVING clause is used to impose a condition on SELECT statement as well as single row function and is used before GROUP BY clauseHAVING clause is used to impose a condition on GROUP Function and is used after GROUP BY clause in the query5SELECT Column,AVG(Column, nmae)FROM Table name WHERE Column > value GROUP BY Column, nmaeSELECT Column, AVG(Column, nmae)FROM Table name WHERE Column > value GROUP BY Column, nmae Having column name=or999999999THEN RAISE_APPLICATION_ERROR(-20000, 'Account transaction exceeding the daily deposit on SAVINGS account.');

end if; end; 3. But the most basic skills that an SQL professional should know are: How to structure a databaseManaging a databaseAuthoring SQL statements and clausesKnowledge of popular database systems such as MySQLWorking knowledge of PHPSQL data analysisCreating a database with WAMP and SQL 4. What are basic SQL skills? Let's say, if you go to a website and give in your user information and password, the hacker would add some malicious code over there such that, he can get the user information and password directly from the database. Unique Key is a constraint in SQL. We will follow it up with the list of the columns, for which we would have to add the values. What is cursor in SQL? What are the types of SQL Queries? How to install SQL Server 2012? This function is used to convert NULL value to the other value. List the ACID properties that makes sure that the database transactions are processed ACID (Atomicity, Consistency, Isolation, Durability) is a set of properties that guarantee that database transactions are processed reliably. 36. This is the command to change the name of a column in MySQL: ALTER TABLE Customer CHANGE Address Addr char(50); In MySQL, we will start off by using the ALTER TABLE keywords, then we will give in the name of the table. How to delete duplicate records in SQL Server Select the duplicate records in a table HAVING COUNT(*)>1 Add a delete statement to delete the duplicate records. Basic SQL commands are: CREATE DATABASE: ALTER TABLE: CREATE TABLE: DROP TABLE: CREATE INDEX: DROP INDEX 9. Difference between SQL and NoSQL databases? How to find the nth highest salary in SQL? To delete a column in SQL we will be using DROP COLUMN method: ALTER TABLE employees DROP COLUMN age; We will start off by giving the keywords ALTER TABLE, then we will give the name of the table, following which we will give the keywords DROP COLUMN and finally give the name of the column which we would want to remove. You can also practice projects to help you with practical aspects of the language. However, some—like MongoDB—do. The LIKE operator checks if an attribute value matches a given string pattern. The BETWEEN operator checks an attribute value within a range. SQL Constraints are used to specify the rules of data type in a table. What are the nonstandard string types? CHAR is used to store fixed-length character strings, and VARCHAR2 used to store variable-length character strings 3. Some of the examples of SQL are in the form of the following statements: SELECT INSERT UPDATEDELETETECREATE DATABASEALTER DATABASE 11. Using the same Row Number() and checking that the remainder when divided by 2 is 0- SELECT E.EmpId, E.Project, E.Salary FROM (SELECT *, Row Number() OVER(ORDER BY EmpId) AS RowNumber FROM EmployeeSalary) E WHERE E.RowNumber % 2 = 0 55. This usually filters some rows from the whole set of records. How to delete a column in SQL? 29. This is how we can copy all the columns into a new table: SELECT * INTO newtable FROM oldtable WHERE condition; If we want to copy only some specific columns, we can do it this way: SELECT column1, column2, column3, ... What is a deadlock? There are 3 different types of SQL sandbox: 1. What are Nested Triggers? In SQL cross join, a combination of every row from the two tables is included in the result set. 7. What does this query says? To see all the tables in MySQL, we would have to use this query: show tables; This is how we can see all tables in MySQL: select table_name from information schema.tables; 16. Out of these database management systems, MySQL comes under the category of Relational database management system. A relational database refers to a database that stores data in a structured format, using rows and columns, with result as (select distinct salary, dense_rank() over (order by salary desc) as salaryrank from employees) select result.salary from result where result.salaryrank = 10 Query to find the 2nd highest salary with the result as (select distinct salary, dense_rank() over (order by salary desc) as salaryrank from employees) select result.salary from result where result.salaryrank = 2 In this way, by replacing the salaryrank value, we can find the nth highest salary in any organisation. With the help of SQL, all of this data can be queried to find out valuable insights in a short span of time. 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SYNTAX : SELECT table1.col1, table2.col2,..., table1.coln FROM table1 Left JOIN table2 ON table1.commonfield = table2.commonfield; Union SELECT table1.col1, table2.col2,..., table1.coln FROM table1 Right JOIN table2 ON table1.commonfield = table2.commonfield; SELF JOIN: The SELF JOIN joins a table to itself; temporarily renaming at least one table in the SQL statement. There are 5 tables present in MySQL. INSERT syntax is used to add a record in the table. What are the main differences between %temp tables and @table variables and which one is preferred? How can you create an empty table from an existing table? OLAP stands for Online Analytical Processing. The DROP TABLE command is used to completely delete the table from the database. When a COMMIT is used in a transaction all changes made in the transaction are written into the database permanently. Normalization is used to decompose a larger, complex table into simple and smaller ones. SELECT TOP 1 salary FROM (SELECT TOP 3 salary FROM employee table ORDER BY salary DESC) AS emp ORDER BY salary ASC; 9. SQL helps you update, delete, and request information from databases. Second normal form: A relation is said to be in 2NF, if and only if: It is in 1st Normal Form. How can I practice SQL? In other words, all the records which are present in this column have to be unique. What is SQL? CTEs are Common Table Expressions that are used to create temporary result tables from which data can be retrieved. An operator can be used here that is :->.Between. Records can be fetched for both Odd and Even row numbers. To display even numbers. The command to create a table in sql is extremely simple: CREATE TABLE table_name (column1 datatype, column2 datatype, column3 datatype); An essential attribute of an OLTP system is its ability to maintain concurrency. 26. What is "Trigger" in SQL? Here this query will throw error because only one column is used in the SELECT statement. 25. These are used to limit the type of data that can go into a table. How are SQL commands classified? SQL is a vast topic and there is a lot to learn. SQL Joins Interview Questions 1. Right-click on the app and select uninstall to uninstall the application from your system. How to change column name in SQL? We can use the SELECT INTO statement to copy data from one table to another. First Normal Form (1NF): It removes all duplicate columns from the table. What is a Cross Join? Syntax to create a Stored Proc: CREATE PROCEDURE PROCEDURE_NAME AS SQL QUERY (GIVE YOUR OFTEN USED QUERY HERE) GO; You can execute the Stored Proc by using the command Exec Procedure Name; 32. Select employeeId from (Select rowno, employeeId from employee where mod(rowno,2)=0 To display odd numbers. The command to change the name of a column is different in different RDBMS. Right-click on the database and click on Properties. Few examples of CTEs are given below: Query to find the 10 highest salaries. 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SELECT TOP 1 salary FROM (SELECT TOP 3 salary FROM employee table ORDER BY salary DESC) AS emp ORDER BY salary ASC; 9. SQL helps you update, delete, and request information from databases. Second normal form: A relation is said to be in 2NF, if and only if: It is in 1st Normal Form. How can I practice SQL? In other words, all the records which are present in this column have to be unique. What is SQL? CTEs are Common Table Expressions that are used to create temporary result tables from which data can be retrieved. An operator can be used here that is :->.Between. Records can be fetched for both Odd and Even row numbers. To display even numbers. The command to create a table in sql is extremely simple: CREATE TABLE table_name (column1 datatype, column2 datatype, column3 datatype); An essential attribute of an OLTP system is its ability to maintain concurrency. 26. What is "Trigger" in SQL? Here this query will throw error because only one column is used in the SELECT statement. 25. 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Write a Query to display employee details along with age? SELECT * FROM (SELECT bc.customer_id , ba.bank account FROM Bank customer bc JOIN Bank Account ba Where bc.customer_id = ba.customer_id And ba.balance > 300000) 3. This will be the command: ALTER TABLE table_name MODIFY COLUMN column_name datatype; We start off by giving the keywords ALTER TABLE, then we will give in the name of the table. SELECT FullName FROM EmployeeDetails WHERE EmpId IN (SELECT EmpId FROM EmployeeSalary WHERE Salary BETWEEN 5000 AND 10000) 24. Given a table Employee having columns empName and empId, what will be the result of the SQL query below? This testing involves 1. How to change SQL Server password Launch your SQL Server Management Studio. Here is an example of BETWEEN operator: SELECT * FROM employees WHERE salary between 10000 and 20000; With this command, we will be able to extract all the records where the salary of the employee is between 10000 and 20000. 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ALTER TABLE employees ADD COLUMN contact INT(10); This command lets us to add a new column named as contact in the employees table. How to change a table in SQL? When two or more tables are joining without equal to join is known as Non Equi join. How to install SQL Server in Windows 10 Click on the search icon and type in – SQL Server 2012 downloadClick on the result link to download and save SQL Server 2012.Select the type of the SQL Server edition that you want to install. Click on Security from the options that get displayed. Click on Logins and open your database connection. 5. SQL Server can be used in conjunction with Big Data tools such as Hadoop. SQL Server can be used to process data from various data sources such as Excel. Table_Net Framework application, etc. What is schema in SQL Server? SELECT user name FROM users WHERE ISNULL(user_phonenumber), 46. Example: Left outer join with “+” operator Select t1.col1,t2.col2,...,t ‘n.col ‘n’. The standard syntax for a CTE with a SELECT statement is: WITH RESULT AS (SELECT COL1, COL2, COL3 FROM EMPLOYEE) SELECT COL1, COL2 FROM RESULT CTEs can be used with Insert, Update or Delete statements as well. The below SQL query selects only the DISTINCT values from the “Country” column in the “Customers” table: SELECT DISTINCT Country FROM Customers; 16. To drop a column is SQL, we will be using this command: ALTER TABLE employees DROP COLUMN gender; We will start off by giving the keywords ALTER TABLE, then we will give the name of the table, following which we will give the keywords DROP COLUMN and finally give the name of the column which we would want to remove. What is replication in SQL Server? This can be calculated from the columns in a table. Though it can be used to close connection opened by mysql connect(). SQL Server can also be connected to various other databases/ .Net framework using Connection Strings. Is SQL coding? Below is the command to create a simple view: Create View Simple view as Select * from BANK CUSTOMER ; Complex View: Create VIEW Complex view as SELECT bc.customer_id , ba.bank account From Bank customer bc JOIN Bank Account ba Where bc.customer_id = ba.customer_id And ba.balance > 300000 Inline View: A subquery is also called as an inline view if and only if it is called in FROM clause of a SELECT query. Explain SQL Constraints? OLTP stands for Online Transaction Processing. How to uninstall SQL Server in Windows 10, go to the START menu and locate the SQL Server. What is Primary Key in SQL? External Access Sandbox: Users can access files without having the right to manipulate the memory allocation. Example: Select a Employee name,b.Department name from Employee a,Employee b where a.Department_ID=b.Department_ID 15. How do you get the last id without the max function? 11. What is a schema? SELECT user name FROM users WHERE ISNULL(user_phonenumber), 47. What is the WHERE clause in SQL? Our database comprises of a lot of different entities such as tables, stored procedures, functions, database owners and so on. What is ALIAS command? The link is given below for reference.Click on the link below : Click on the search icon and type in – SQL Server 2014 downloadClick on the result link to download and save SQL Server 2014. How can you delete duplicate records in a table with no primary key? Difference between COALESCE() & ISNULL() ? SQL stands for structured query language and is majorly used to query data from relational databases. What is an UNION operator? What is Database White box testing? The query compares each row of table1 with each row of table2 to find all pairs of rows which satisfy the join-predicate. This recursive function or procedure helps programmers to use the same set of code any number of times. It helps in performing tasks such as updating and retrieving data from the databases. There are a lot of ways to remove duplicate rows in SQL. What is a view in SQL? 38. To insert multiple rows in SQL we can follow the below syntax: INSERT INTO table name (column1, column2,column3,...) VALUES (value1, value2, value3,...), (value1, value2, value3,...), ... Check out the courses on Great Learning Academy. SELECT book title FROM books LIMIT 25,100; 45. Select max(Salary) from Worker where Salary not in (Select max(Salary) from Worker); 48. Write an SQL query to fetch three max salaries from a table. Stored procedures are also used to reduce network traffic and improve performance. SELECT empName FROM employee WHERE salary 6000 The following query will not fetch a record with the salary of 6000 but also will skip the record with NULL. 60. How to rename column name in SQL Server? How to check SQL Server version You can run the below query to view the current version of SQL Server that you are using. SQL stands for Structured Query Language. Go to the File menu and click Save. 16. So, pl sql adds in procedural language approach to the plain vanilla sql. Either we can copy all the data or only some specific columns. INSERT into table name VALUES (value1, value2,...); 41. This command is used to provide database access to users other than the administrator in SQL privileges. The relational structure makes it possible to run queries across multiple tables at once. Examples Oracle, MySQL, Microsoft SQL Server, and PostgreSQL Document: MongoDB and CouchDB. Key-value: Redis and DynamoDB. Wide-column: Cassandra and HBase. Graph: Neo4j and Amazon Neptune Primary Purpose General purpose Document: general purpose. Key-value: large amounts of data with simple lookup queries. Wide-column: large amounts of data with predictable query patterns. Graph: analyzing and traversing relationships between connected data Schemas Rigid Flexible Scaling Vertical (scale-up with a larger server) Horizontal (scale-out across commodity servers) Multi-Record ACID Transactions Supported Most do not support multi-record ACID transactions. How to use SQL Server SQL Server is used to retrieve and process various data that is built on a relational model. Both the NVL(expl, exp2) and NVL2(expl, exp2, exp3) functions check the value exp1 to see if it is null. In Case WHEN, there will be multiple conditions and we will choose something on the basis of these conditions. What will be the output of the following Query, provided the employee table has 10 records? BEGIN TRAN TRUNCATE TABLE Employees ROLLBACK SELECT * FROM Employees This query will return 10 records as TRUNCATE was executed in the transaction. What is the usage of NVL() function? You can also define the type of Primary/ Foreign/ Check constraint when creating a table. They can be specified while creating and altering the table. 61. 8. What does the BCP command do? How to get the connection string from SQL Server? How to uninstall SQL Server 2014 From the START menu, type SQL Server. Out of these database management systems, SQL Server comes under the category of Relational database management system. A relational database refers to a database that stores data in a structured format, using rows and columns. What are aggregate and scalar functions? select * from iris where Species=’virginica’ 35. Sample Query to find the duplicate records in a table- (SELECT COL1, COUNT(*) AS DUPLICATE FROM EMPLOYEE GROUP BY COL1 HAVING COUNT(*) > 1); 22. The output will be NULL. Heap 3. In other words, we are extracting only those records, where the employee’s first name is ‘Steven’ and this person’s salary should be less than \$10,000. What is the most common SQL command? In the Properties window that is displayed, you can view the Connection String property. After that, we will give in the keywords MODIFY COLUMN. What is CLAUSE SQL clause is defined to limit the result set by providing condition to the query. Login using Windows Authentication. This is also called cross product set. There are some platforms available online that can help you practice SQL such as SQL Fiddle, SQLZOO, W3resource, Oracle LiveSQL, DB-Fiddle, Coding Ground, GitHub and others. You can also refer to articles and blogs online that list the most important SQL interview questions for preparation. * – Matches zero or more characters. 41. There are many sources online that can help you prepare for an SQL interview. Can you get the list of employees with same salary? Select distinct e.empid,e.empname,e.salary from employee e, employee e1 where e.salary =e1.salary and e.empid !=e1.empid 30. What do you mean by Stored Procedures? Syntax to create a Stored Proc: CREATE PROCEDURE PROCEDURE NAME AS SQL QUERY (GIVE YOUR OFTEN USED QUERY HERE) GO; You can execute the Stored Proc by using the command Exec Procedure Name; 17. By using the column alias in the ORDER BY instead of where clause for sorting 4. After that in braces, we will list out all the columns along with their datatypes. Enroll to any course, learn the in demand skill and get your free certificate. How to drop a column in SQL? 24. SYNTAX : SELECT table1.col1, table2.col2,..., table1.coln FROM table1 RIGHT JOIN table2 ON table1.commonfield = table2.commonfield; FULL OUTER JOIN: The FULL OUTER JOIN combines the results of both left and right outer joins. Will the following statements execute? Glad to see you are now better equipped to face an interview. Now lets have a look at top common interview questions here. What does First normal form do? Can you join table by itself? A table can be joined to itself using self join, when you want to create a result set that joins records in a table with other records in the same table. After that, we will use the CHANGE keyword and give in the original name of the column, following which we will give the name to which we would want to rename our column. How to download SQL Server The Express and Developer versions (open-source versions) of the latest SQL Server release can be downloaded from the official Microsoft website. 4. Group functions work on a set of rows and return a single result per group. And a class of software programs which are characterized by relatively low frequency of online transactions. What does myisamchk do? *CARTESIAN JOIN (CROSS JOIN) – Returns the Cartesian product of the sets of records from the two or more joined tables. The condition ensures that we extract only those records where the first name of the employee is ‘Steven’ and the second condition ensures that the salary of the employee is less than \$10,000. What is a unique key in SQL? How do I view tables in SQL? ROWCOUNT function 2. Once we have a clear understanding of the schema, this helps in a lot of ways: We can decide which user has access to which tables in the database.We can modify or add new relationships between different entities in the database. Let’s look at this example: SELECT [Name], [Age], [Gender], COUNT(*) AS CNT FROM [mydata].[dbo].[Employees] GROUP BY [Name], [Age], [Gender] HAVING COUNT(*) > 1; In the above command, we are using group by and having to count the duplicate records. This command provides another name to a table or a column. Perform any operation on NULL will get the NULL result. 9. How to change column name in SQL Server From the Object Explorer window pane, go to the table in which the column is present and choose Design. How can I see all tables in SQL? How to install SQL Server management studio Launch Google and in the Search toolbar, type in SQL Server Management Studio’ download. Go to the routed website and click on the link to download. 1. Clustered indexes store data physically in the table or view whereas, non-clustered indexes do not store data in the table as it has separate structure from the data row. This is the syntax to create explicit cursor: DECLARE cursor name CURSOR FOR SELECT * FROM table name We start off by giving by keyword DECLARE, then we give the name of the cursor, after that we give the keywords CURSOR FOR SELECT * FROM table name. •RIGHT JOIN – Returns all rows from the right table, even if there are no matches in the left table. 21. By executing the query with parameters By using EXEC By using sp. executetestq 18. One thing to be noted over here is that pl sql is only for oracle databases. 32. Accent sensitivity: a and á are treated differently. First normal form: A relation schema is in 1NF, if and only if: – All attributes in the relation are atomic(indivisible value) -And there are no repeating elements or group of elements. Constraints can either be column level or table level. Unique Key: Whenever we give the constraint of unique key to a column, this would mean that the column cannot have any duplicate values present in it. MySQL vs SQL Server SQL Server MySQL Server MySQL ServerRelational Database Management SystemOpen-source Relational Database Management SystemDeveloped by MicrosoftDeveloped by OracleAvailable in Multiple Languages Only available in EnglishSupports Windows, Linux and ContainersSupports Windows, Linux and MacCommercial Open-SourceProgrammed in C++Programmed in C and C++Compatible with Kubernetes, Apache Spark and Hadoop Distributed File SystemHas Difficulty Operating with Kubernetes, Apache Spark and Hadoop Distributed File System MongoDB vs SQL MongoDBMySQLWhen you need high availability of data with automatic, fast, and instant data recoveryIf you’re just starting and your database is not going to scale much, MySQL will help you in easy and low-maintenance setupIn future, if you’re going to grow big as MongoDB has in-built sharding solutionIf you want high performance on a limited budget If you have an unstable schema and you want to reduce your schema migration cost If you have fixed schema and data structure isn’t going to change over time like WikipediaIf you don’t have a database administrator If high transaction rate I going to be your requirementIf most of the services are cloud-based, MongoDB is best suitable for youIf data security is the topmost priority, MySQL is most suited DBMS SQL Server Interview Questions 1. MyIsAM 2. The ‘Where’ clause is used to extract elements from the table on the basis of a condition. Where can I practice SQL questions? The five basic SQL commands are: Data Definition Language (DDL)Data Manipulation Language (DML)Data Control Language (DCL)Transaction Control Language (TCL)Data Query Language (DQL) 3. For Example, if we join two tables having 15 and 20 columns the Cartesian product of two tables will be 15x20=300 rows.); 3. So, you can consider the schema to be the logical relationship between all the different entities which are present in the database. It can be used in WHERE clause of a SQL query using the “as” keyword. 16. How would you select all the users, whose phone number is NULL? 17. How to create a stored procedure in SQL Server A Stored Procedure is nothing but a frequently used SQL query. TEXT 3. But if we want to delete only the data present in the table but not the table itself, then we will use the truncate command: DROP TABLE table name ; 4. Various parameters can be passed onto a Stored Procedure. Indexes can be created on #temp tables 3. Define lock escalation? We have four types of SQL Queries: DDL (Data Definition Language): the creation of objectsDML (Data Manipulation Language): manipulation of dataDCL (Data Control Language): assignment and removal of permissionsTCL (Transaction Control Language): saving and restoring changes to a database Let’s look at the different commands under DDL: CommandDescriptionCREATECreate objects in the databaseALTERAlters the structure of the database objectDROPDelete objects from the databaseTRUNCATERemove all records from a table permanentlyCOMMENTAdd comments to the data dictionaryRENAMERename an object 21. Write a Query to display the number of employees working in each region? SELECT region, COUNT(object) FROM employee GROUP BY region; 22. What is the difference between clustered and non-clustered indexes? Write a query to find out the data between range? The popularly used group functions are AVG, MAX, MIN, SUM, VARIANCE, COUNT 17. How to connect SQL Server The most common way of connecting to a SQL Server is using Windows Authentication. Make sure to select the Server Name as the desktop or laptop system name. 35. What is OLTP? 3. Explain Equi join with example When two or more tables has been joined using equal to operator then this category is called as equi join. There are two ways to delete a table in SQL? DROP and TRUNCATE. It also defines integrity constraints to enforce business rules on the data when it is entered into an application or a database. The product is used across industries to store and process large volumes of data. Different database management systems have different queries to see all the tables. SQL injection is a code injection technique used to hack data-driven applications 13. For example, if a company has records of all the details of their employees in the database. Types of Joins: -INNER JOIN – Returns rows when there is a match in both tables GRANT privilege name ON object name TO (user, name)PUBLIC[role name] [WITH GRANT OPTION]; The given syntax indicates that the user can grant access to another user too. Finally, in parenthesis, we will give the list of the columns which on which we would want this unique index. These triggers that contain DML and find other triggers for data modification are called Nested Triggers. How to add e record to the table? What does GRANT command do? You can consider Primary Key constraint to be a combination of UNIQUE and NOT NULL constraint. What are the different types of Collation Sensitivity? Finally, in parenthesis, we will list out all the columns which will have the index. SQL having vs where S. A trigger allows you to execute a batch of SQL code when an insert,update or delete command is run against a specific table as Trigger is said to be the set of actions that are performed whenever commands like insert, update or delete are given. 6. Primary Key is a constraint in SQL. When it comes to SQL Server, it is not possible to rename the column with the help of ALTER TABLE command, we would have to use sp_rename. TINYTEXT 2. After that, we give the AS keyword and follow it up with the SQL query, which we want as a stored procedure. How to calculate the number of rows in a table without using the count function? SQL Server can also be used to import and export data from different data sources. Data Mapping 2. This is how we can find the nth highest salary in SQL SERVER using TOP keyword: SELECT TOP 1 salary FROM I (SELECT DISTINCT TOP N salary FROM #Employee ORDER BY salary DESC) AS temp ORDER BY salary This is how we can find the nth highest salary in MySQL using LIMIT keyword: SELECT salary FROM Employee ORDER BY salary DESC LIMIT N-1, 1 5. How to copy table in SQL? It describes the type of Constraints that are applied to a database. 6. It returns rows combining each row from the first table with each row of the second table. Once the download is complete, open the .exe file to install the content of the file. Type in the new password for login and click on ‘OK’ to apply the changes. 12. Overall, you can consider a schema to be a blueprint for the database, which will give you the complete picture of how different objects interact with each other and which users have access to different entities. The columns and the data types must be the same in the SELECT statements. Let’s see how can we find duplicate records using groupby: SELECT x, y, COUNT(*) occurrences FROM z1 GROUP BY x, y HAVING COUNT(*) > 1; 13. What is the Cartesian product of the table? Generally, in a table, we will have a lot of redundant information which is not required, so it is better to divide this complex table into multiple smaller tables which contains only unique information. SQL stands for Structured Query Language and it is not something you can install. What is the stored procedure in SQL Server? 64. 18. Wondering where to learn the highly coveted in demand skills for free? Yes, SQL server drops all related objects, which exists inside a table like constraints, indexes, columns, defaults etc. EXEC employee_location @location = ‘Boston’; With this, we are extracting all the employees who belong to Boston. If yes what will be output? This is the command to change a table name in SQL: ALTER TABLE table_name RENAME TO new_table_name; We will start off by giving the keywords ALTER TABLE, then we will follow it up by giving the original name of the table, after that, we will give in the keywords RENAME and finally, we will give the new table name. Safe Access Sandbox: Here a user can perform SQL operations such as creating stored procedures, triggers etc. Write a Query to display odd records from student table? There are so many system tables which are very important. Using the system table user can count the number of rows in the table.following query is helpful in that case, Select table_name, num. rows from user_tables where table_name=’Employee’; 59. When a database is replicated/ taken a copy of, it can be used across databases for data reuse and synchronization. 22. Difference between CHAR and VARCHAR2 datatype in SQL? The update command comes under the DML(Data Manipulation Language) part of sql and is used to update the existing data in the table. Column indexes can be created on both Tables and Views. Constraints can either be column level or table level. Let’s look at the different types of constraints which are present in SQL: ConstraintDescriptionNOT NULLEnsures that a column cannot have a NULL value.DEFAULTProvides a default value for a column when none is specified.UNIQUEEnsures that all the values in a column are differentPRIMARYUniquely identifies each row/record in a database tableFOREIGNUniquely identifies a row/record in any another database tableCHECKThe CHECK constraint ensures that all values in a column satisfy certain conditions.INDEXUsed to create and retrieve data from the database very quickly. How do you return a hundred books starting from 25th? Connection strings help connect databases to another staging database or any external source of data. Click on the Database connection for which you want to change the login password. Write SQL query to fetch employee names having a salary greater than or equal to 20000 and less than or equal 10000. Going ahead, we will give in the name of the column for which we would want to change the datatype and finally we will give in the data type to which we would want to change. Use of Black Box testing techniques such as Equivalence Partitioning and Boundary Value Analysis (BVA). 5. How to change column data-type in SQL? A Stored Procedure is nothing but a frequently used SQL query. SELECT CURDATE(); 28. Using SELECT INTO command- SELECT * INTO newTable FROM EmployeeDetails; 56. What are the different types of SQL sandbox? Right-click on the .exe file and click on Open.5.Click on ‘Yes’ to allow the changes to be made on your system and have SQL Server installed.6.Once the installation is complete, restart your system, if required, and launch the SQL Server Management Studio application from the START menu. Set rowcount 33. Data integrity is the assurance of accuracy and consistency of data over its entire life-cycle, and is a critical aspect to the design, implementation and usage of any system which stores, processes, or retrieves data. We can create an index using this command: CREATE INDEX index_name ON table_name (column1, column2, column3 ...); We start off by giving the keywords CREATE INDEX and then we will follow it up with the name of the index, after that we will give the ON keyword. Functions are pre-written codes that return a value and which help the user achieve a particular task concerning viewing, manipulating, and processing data. What is SQL example? How to start SQL Server Launch the SQL Server Management Studio from the START menu. Triggers may implement DML by using INSERT, UPDATE, and DELETE statements. BLOB stands for large binary object. SELECT distinct Salary from worker a WHERE 3 => (SELECT count(distinct Salary) from worker b WHERE a.salary

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