General Questions

* Tell me something about yourself and your experience with SQL Server?
* Brief me about your database environment like the number of instances, databases, biggest database size, etc.?
* Explain your backup and database maintenance strategy for your biggest critical OLTP database?
* How do you handle major incidents?
* Tell me something about the last issue you have faced and how did you fix that?
* Suppose there is a database issue, and you don’t have any solution. You did everything to find the solution to fix the issue, but you did not get anything. What would be your next step to handle this situation?
* Explain any of your two deliveries or solutions for which you have been recognized by your client and leaders

1- Practical Interview

* 1. Deleting Duplicates TSQL

<https://www.sqlshack.com/different-ways-to-sql-delete-duplicate-rows-from-a-sql-table/>

* 1. Identifying Blocks (we will make temporary locks) and finding the cause
  2. Finding Error in SQL Error logs.
  3. Finding Issues in event viewer.
  4. Creating maintenance plan.

2 - Theory Questions

What is an operator in SQL Server?

An operator in SQL Server is an administrative user-defined entity that manages tasks such as creating alerts or jobs.

How can the SQL Server configuration manager change the dynamic port?

To change the dynamic port in the SQL Server configuration manager, navigate to the server where SQL Server is installed, double-click TCPIP before clicking IP addresses to add and delete entries, and set static port 9221 as your new one.

HA - Alwayson

Can we run DBCC CHECKDB on the secondary replica of the availability group?

Yes, we can execute CHEKDB on a secondary replica for database integrity check. This will ensure the integrity of the database hosted on secondary replica only. This execution will not guarantee the integrity of the database hosted on a primary replica as a primary replica uses a different set of storage systems to host their databases.

Can we replicate SQL Server data to other RDBMS systems like Oracle?

Yes, SQL Server replication can be used to publish data from SQL Server to Oracle or Oracle to SQL Server

Еxplain recovery models and its functions.

Full

Bulk-logged

Simple

Explain which kinds of replication SQL Server supports.

SQL Server supports three kinds of replication: transaction, merge, and snapshot:

Transaction replication is a method that monitors transactions as they happen and that the system replicates the changes

Snapshot replication makes a data snapshot that database administrators can deliver to any subscriber, which is ideal if there’s not much data that needs replicating

Merge replication integrates a snapshot for replication seeding; this replication process tracks changes and is commonly used in a client and server scenario, where the server is similar to a repository

SAI Technical Questions

1. What is dirty reads in sql server?
2. What is a deadlock and when does this occur?
3. What are the distinct types of LOCKS in SQL Server?

Shared Locks

Exclusive locks

Intent lock

Update lock

Bulk update lock

Schema lock

1. What is the advantage of copy only backup?
2. What wait types are most common in Sql server?
3. How do you tackle or investigate CXPacket wait types?
4. What is the default settings for Cost threshold of parallelism and MaxDOP?
5. How do you calculate and set up Cost threshold of parallelism and MaxDOP?
6. When do you use NO Lock option?
7. Clustered vs Non Clustered which one is fast and why? Explain a scenario?
8. What are key lookups in SQL Execution plans.?
9. What is the order of Query execution

Select top 10 Clientid, Name, salary, sum(salary)

From dbo.abc

Where Clientid = 123

Group by Clientid, Name, salary

Having sum(salary) > 100

1. Different types of Isolation levels in SQL Server?
2. What are memory grants in SQL Server.?

Memory allocated / reserved to a query for its execution to store data temporarily while sorting on joining rows.