

# Notes

29 October 2023 18:52

Server=localhost\SQLEXPRESS;Database=master;Trusted\_Connection=True;

# Neo soft interview questions

25 November 2023 18:11

Questions on 1. Communication: 2. Basic Of Web Development: 3. C#/OOPS: 4. Programing Language / Framework: - [ASP.NET](#): - MVC: - .NET CORE: - Version Controls: 6. Database: 7. Basic Concepts: 8. Coding (Logical): 9. Advanced Concepts:

WHAT IS OOPS,  
4 PILLARS OF OOPS,  
POLYMORPHISM,  
VIRTUAL FUNCTION,  
DELEGATE,  
REFLECTION,  
CONSTRUCTOR ROUTING,  
TYPES OF ROUTING,  
KEYWORD FOR ATTRIBUTE ROUTING FILTERS,  
DIFF B/W AUTHENTICATION & AUTHORISATION,  
AUTHORIZATION TECHNIQUE USED IN PROJECTS,  
MINIFICATION & BUNDLING,  
AJAX,  
VIEWBAG & VIEWDATA(WHICH ONE IS DYNAMIC & WHICH ONE REQ TYPECASTING),  
DIFF B/W TEXTBOX & TEXTBOXFOR  
DIFF B/W PRIMARY KEY & UNIQUEKEY  
CROSS JOIN UNION & UNION ALL INTERSECT AUTOINCREMENT STORED PROCEDURE & FUNCTION

diff between null and undefined-

|    | Undefined   | NULL   |
|----|---|--|
| 1. | Undefined means a variable has been declared but has yet not been assigned a value. | Null is an assignment value. It can be assigned to a variable as a representation of no value. |

From <<https://www.geeksforgeeks.org/undefined-vs-null-in-javascript/>>

diff between === and==

## What is == in JavaScript?

Double equals (==) is a comparison operator, which transforms the operands having the same type before comparison.

So, when you compare string with a number, JavaScript converts any string to a number. An empty string is always converts to zero. A string with no numeric value is converts to NaN (Not a Number), which returns false.

## What is === in JavaScript?

=== (Triple equals) is a strict equality comparison operator in JavaScript, which returns false for the values which are not of a similar type. This operator performs type casting for equality. If we compare 2 with "2" using ===, then it will return a false value.

From <<https://www.guru99.com/difference-equality-strict-operator-javascript.html>>

managed and unmanage code -  
between finally and finalize block? -  
What are extension methods in C#? -  
Early binding and late binding-couldn't  
Solid-principle-  
temperoy table-  
Scalar function and table value function-  
What's the difference between RANK() and DENSE\_RANK -  
What is the difference between varchar and nvarchar types? -  
Why should we use Ajax in our application? -  
view state and session-  
Use of Global.asax file tell me event -  
types Asp.Net MVC routing concept-  
view data and view bag-  
What is the importance of NonActionAttribute? -  
What is the sequence in which filters get executed? -  
@Html.Partial and @Html.RenderPartial -  
ActionResult and ViewResult-  
What is Minification and Bundling? -  
What is the startup class in [ASP.NET](#) core-  
difference between app.Run and app.Use in [ASP.NET](#) Core.  
What is middleware?-average Dependency Injection-  
Describe the Service Lifetimes-  
What are main return types supported in Web API? -  
Explain error handling in Web API.-  
[25/11, 11:02 am] Shalini NeoSoft HR: What is use of static  
What is default access modifier of class  
What are delegates

Difference between Error and Exception

## What is Error in C#

An error is a situation that occurs due to unavailability of system resources. Errors are complex failures, and the programmer cannot handle them in his program. Therefore, an error is irrecoverable. It is an unchecked type because the [compiler](#) does not know about its occurrence. Therefore, an error occurs at runtime. Out of memory error, stack overflow error, system crash errors are some common errors. As the programmer cannot handle these errors using his C# program, they cause the program to terminate abnormally.

## What is Exception in C#

An exception is an issue that occurs when a program executes. The exception can occur because of a problem in the C# program, but it is possible to recover them. Dividing a number by zero is an example of an exception. The programmer handles exceptions in C# program by using try, catch and finally blocks. He can place the code that is likely to cause an exception inside the try block. If an exception occurs, the program executes the statements inside the catch block. The finally block will execute whether an exception occurred or not. The programmer can include operations such as file closing inside the finally block. Moreover, it is not mandatory

to have a finally block.

From <<https://pediiaa.com/what-is-the-difference-between-error-and-exception-in-c/>>

What are constructor used for  
What is cache?  
Types of Routing  
What are the various return types of controller action Method  
What is Bundling and Minification  
How are sessions maintained in MVC  
Difference between ViewBag, ViewData and TempData  
Use and types of Filters  
JWT NOT USED/ONLY CONCEPT  
Query Optimization(steps for optimizing a query for better performance)  
Clustered and Non-clustered Index  
REST API and  
Singleton  
Repository  
[25/11, 11:02 am] Shalini NeoSoft HR: QUESTIONS

C#:

1. Constructor & Destructor?
2. What is Delegate?
3. Array & ArrayList?
4. class & partial class?
5. abstract & interface?
6. What is Metadata?
7. Types of Namespaces?
8. Types of Assembly?
9. Difference between Namespace and Assembly?
10. Difference between Value Types and Reference Types?
11. What is Global Assembly Cache (GAC)?
12. How to prevent the class from Inheriting?

MVC: 1. Minification & Bundling?

2. HttpPut & HttpPatch?
3. Viewdata, ViewBag & tempdata?
4. Can we Process 2 Model with one view?
5. HttpDelete?
6. view & partial view?
7. scaffolding?
8. MVC page life cycle?
9. Return types in API?
10. HttpGet & HttpPost

SQL:

1. Composite Primary Key?
2. NF?
3. Cursor?
4. Indexes?
5. Stored Procedure?
6. What are the fundamental objects in [ADO.NET](#)?
7. sql query based questions
8. sql concepts?
9. DML,DDL,DQL?
10. Constraints
11. Joins? Join concepts & queries ?
12. What is Authentication and Authorization?
13. Types of Authentications?
14. Difference between Dataset and Datareader?

ANGULAR:

1. Lazy Loading in Angular?
2. Observable Binding in Angular?
3. Type Script in Angular
4. Data Binding
5. SPA
6. Types of Decorators in Angular

OTHERS:

1. Ajax
2. html?
3. What is the difference between JavaScript and jQuery
4. Is jQuery replacement of JavaScript
5. Name some Effective Methods used in jQuery?
6. Use of toggle() method in JQuery

managed and unmanage code  
What are sealed classes in C#?-  
diff between finally and finalize block?-  
What are extension methods in C#?-  
Early binding and late binding-  
Solid-principle-poor temporary table-  
What's the difference between RANK() and DENSE\_RANK –  
What is the difference between varchar and nvarchar types?-  
How to delete duplicate rows in SQL Server?-  
Why should we use Ajax in our application?-  
view state and session-  
Types of cookies-  
Use of Global.asax file tell me event -  
types MVC routing concept-  
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What is the importance of NonActionAttribute?-  
What is the sequence in which filters get executed?-  
@Html.Partial and @Html.RenderPartial -  
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What is the startup class in [ASP.NET](#) core  
difference between app.Run and app.Use in [ASP.NET](#) Core-  
What is middleware?

WHAT IS OOPS,4 PILLARS OF OOPS,POLYMORPHISM,VIRTUAL FUNCTION,DELEGATE,REFLECTION,CONSTRUCTOR ROUTING,TYPES OF ROUTING,KEYWORD FOR ATTRIBUTE ROUTING FILTERS,DIFF B/W AUTHENTICATION & AUTHORISATION,AUTHORIZATION TECHNIQUE USED IN PROJECTS,MINIFICATION & BUNDLING,AJAX,VIEWBAG & VIEWDATA(WHICH ONE IS DYNAMIC & WHICH ONE REQ TYPECASTING),DIFF B/W TEXTBOX & TEXTBOXFOR DIFF B/W PRIMARY KEY & UNIQUEKEY INNER JOIN,CROSS JOIN UNION & UNION ALL INTERSECT AUTOINCREMENT STORED PROCEDURE & FUNCTION

From <<https://mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/KtbxLwqpsCrZRWtCGtwknSgZiFsVfSTddq>>

IRIS

Security measures  
Antiforgery token  
Tokens where it is being store  
IEnumerable vs IEnumerator  
Sql injection in .net  
Ssrs  
Linq parallel

# Neo Soft 2nd round

28 November 2023 12:55

<https://vikrantrana1993.medium.com/difference-between-document-ready-and-window-load-in-jquery-73ef17298720>

## \$(document).ready()

The document ready event fired when the HTML document is loaded and the DOM is ready, even if all the graphics haven't loaded yet. If you want to hook up your events for certain elements before the window loads, then `$(document).ready` is the right place.

Code:

```
$(document).ready(function() {  
  // document is loaded and DOM is ready  
  alert("Document is ready");  
});
```

## \$(window).load()

The window load event fired a bit later, when the complete page is fully loaded, including all frames, objects and images. Therefore functions which concern images or other page contents should be placed in the load event for the window or the content tag itself.

```
$(window).load(function() {  
  // document is loaded and DOM is ready  
  alert("window is loaded");  
});
```

From <<https://vikrantrana1993.medium.com/difference-between-document-ready-and-window-load-in-jquery-73ef17298720>>

## minimum parameters for Ajax call

AJAX allows web pages to be updated asynchronously by exchanging small amounts of data with the server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page

```
$.ajax({  
  type: 'POST',  
  url: 'popup.aspx/GetJewellerAssets',  
  contentType: 'application/json; charset=utf-8',  
  data: { jewellerId: filter, locale: 'en-US'},  
  dataType: 'json',  
  success: AjaxSucceeded,  
  error: AjaxFailed  
});  
  
$.ajax({  
  type: 'POST',  
  url: 'popup.aspx/GetJewellerAssets',  
  contentType: 'application/json; charset=utf-8',  
  data: JSON.stringify({ jewellerId: filter, locale: 'en-US'}),  
  dataType: 'json',  
  success: AjaxSucceeded,  
  error: AjaxFailed  
});
```

From <<https://stackoverflow.com/questions/1916309/pass-multiple-parameters-to-jquery-ajax-call>>

## diff between \$(document).ready & \$(function())

## \$( document ).ready()

A page can't be manipulated safely until the document is "ready." jQuery detects this state of readiness for you. Code included inside `$( document ).ready()` will only run once the page Document Object Model (DOM) is ready for JavaScript code to execute. Code included inside `$( window ).on( "load", function() { ... } )` will run once the entire page (images or iframes), not just the DOM, is ready.

```
1  
2 // A $( document ).ready() block.  
3 $( document ).ready(function() {  
4   console.log( "ready!" );  
5 });
```

Experienced developers sometimes use the shorthand `$()` for `$( document ).ready()`. If you are writing code that people who aren't experienced with jQuery may see, it's best to use the long form.

```
1  
2 // Shorthand for $( document ).ready()  
3 $(function() {  
4   console.log( "ready!" );  
5 });
```

```
});
```

You can also pass a named function to `$( document ).ready()` instead of passing an anonymous function.

```
1
2 // Passing a named function instead of an anonymous function.
3
4 function readyFn( jQuery ) {
5     // Code to run when the document is ready.
6 }
7
8 $( document ).ready( readyFn );
9 // or:
10 $( window ).on( "load", readyFn );
```

From <<https://learn.jquery.com/using-jquery-core/document-ready/>>

write child element specific css to change the background color for Neosoft

```
<head>
<style>
/* Selects the second element of div siblings */
div:nth-child(2) {
    background: red;
}

/* Selects the second li element in a list */
li:nth-child(2) {
    background: lightgreen;
}

/* Selects every third element among any group of siblings */
:nth-child(3) {
    background: yellow;
}
</style>
</head>
<body>

<div>
<p>This is some text.</p>
</div>

<div>
<p>This is some text.</p>
</div>

<div>
<p>This is some text.</p>
</div>

<ul>
<li>First list item</li>
<li>Second list item</li>
<li>Third list item</li>
<li>Fourth list item</li>
<li>Fifth list item</li>
</ul>
```

This is some text.

This is some text.

This is some text.

- First list item
- Second list item
- Third list item
- Fourth list item
- Fifth list item

```
<style>
/* Selects the second element of div siblings */
div:nth-child(2) {
    background: red;
}

/* Selects the second li element in a list */
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</style>
```

#### 4 Pillar OOPS

Type of Classes

Delegates

Solid Principles

diff between traditional Routing and attribute routing

Viewbag, ViewData, TempData

Filters in MVC

Return type

Minification and Bundling

Partial view

Scaffolding

Renderbody and Renderpage

MS-SQL

CTE  
UPSERT  
INNER JOIN, CROSS JOIN  
UNION & UNION ALL  
INTERSECT

combines two select statements and returns only the dataset that is common in both the statements.

STORED PROCEDURE & FUNCTION

REST  
SOAP  
Error handling  
Unit Testing  
Design Patterns : Singleton, Abstract Factory, Factory Method  
multitenant app

## Attribute Routing

It is a very simple routing method compared to conventional routing. All the concepts are just like the conventional approach but here, we define all the routes and attributes. In attribute, we define the routing on a simple controller or action method.

### How to register attribute routing

For simply registering the attribute routing in our application, we need to add the following line in routeconfig.cs.

1. `routes.MapMvcAttributeRoutes();`

```
1 reference
public class RouteConfig
{
    1 reference
    public static void RegisterRoutes(RouteCollection routes)
    {
        routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
        routes.MapMvcAttributeRoutes();
        routes.MapRoute(
            name: "Default",
            url: "{controller}/{action}/{id}",
            defaults: new { controller = "Home", action = "Index", id = UriParameter.Optional }
        );
    }
}
```

### How to use attribute routing

Simply, we can use RoutePrefix or route attribute for using attribute routing in the controller.

```
1. [RoutePrefix("Home")]
2. public class HomeController : Controller
3. {
4.     [Route("Index")]
5.     public ActionResult Index()
6.     {
7.         return View();
8.     }
9. }
```

From <<https://www.c-sharpcorner.com/article/routing-in-mvc-5/>>

## What is Factory Design Pattern in C#?

According to Gang of Four (GoF), "A factory is an object used for creating other objects. In technical terms, we can say that a factory is a class with a method. That method will create and return different objects based on the received input parameter".

In simple words, if we have a superclass and n number of subclasses, and based on the data provided, if we have to create and return the object of one of the subclasses, then we need to use the Factory Design Pattern in C#.

From <<https://dotnettutorials.net/lesson/factory-design-pattern-csharp/>>

## What is the Abstract Factory Design Pattern?

According to the Gang of Four Definition, **The Abstract Factory Design Pattern provides a way to encapsulate a group of factories with a common theme without specifying their concrete classes.**

Abstract means hiding some information, factory means which produces the products, and pattern means a design. So, the Abstract Factory Pattern is a software design pattern that provides a way to encapsulate a group of individual factories that have a common theme.

From <<https://dotnettutorials.net/lesson/abstract-factory-design-pattern-csharp/>>

## What is Singleton Design Pattern?

Singleton design pattern in C# is one of the most popular design patterns. In this pattern, a class has only one instance in the program that provides a global point of access to it. In other words, a singleton is a class that allows only a single instance of itself to be created and usually gives simple access to that instance.

There are various ways to implement a singleton pattern in C#. The following are the common characteristics of a singleton pattern.

```
public sealed class Singleton3
{
    Singleton3() {} // private constructor
    private static readonly object lock = new object();
    private static Singleton3 instance = null;
    public static Singleton3 Instance
```

```

{
    get
    {
        if (instance == null)
        {
            lock(lock)
            {
                if (instance == null)
                {
                    instance = new Singleton3();
                }
            }
        }
        return instance;
    }
}
}

```

From <<https://www.c-sharpcorner.com/UploadFile/8911c4/singleton-design-pattern-in-C-Sharp/>>

## Introduction to MVC Partial View

Partial view in ASP.NET MVC is a special view that renders a portion of view content. It is just like a user control of a web form application. Partial can be reusable in multiple views. It helps us to reduce code duplication. In other word a partial view enables us to render a view within the parent view.

From <<https://www.c-sharpcorner.com/UploadFile/ff2f08/partial-view-in-mvc/>>



# DSA Questions

29 November 2023 13:14

1. Search for a number in sorted array - Morgan Stanley
2. Design parking lot - Morgan Stanley
3. More about APIs and other questions - Morgan Stanley

From <<https://www.glassdoor.co.in/Interview/Morgan-Stanley-Senior-Software-Engineer-Interview-Questions-EI-IE2282.0,14-KO15,39.htm>>

Sonali.kumari

Arconnet

Binary Search

Change of variable

Choose columns for indexing to improve query performance

# Links

29 November 2023 18:17

[https://egzv.fa.em2.oraclecloud.com/fscmUI/faces/FuseWelcome?\\_af.ctrl-state=vekzt9mk7\\_238&\\_afLoop=37546021847318230&\\_afWindowMode=0&\\_afWindowId=oxhhwqpq2&\\_afFS=16&\\_afMT=screen&\\_afMFW=1536&\\_afMFH=739&\\_afMFDW=1536&\\_afMFDH=864&\\_afMFC=8&\\_afMFCI=0&\\_afMFM=0&\\_afMFR=120&\\_afMFG=0&\\_afMFS=0&\\_afMFO=0](https://egzv.fa.em2.oraclecloud.com/fscmUI/faces/FuseWelcome?_af.ctrl-state=vekzt9mk7_238&_afLoop=37546021847318230&_afWindowMode=0&_afWindowId=oxhhwqpq2&_afFS=16&_afMT=screen&_afMFW=1536&_afMFH=739&_afMFDW=1536&_afMFDH=864&_afMFC=8&_afMFCI=0&_afMFM=0&_afMFR=120&_afMFG=0&_afMFS=0&_afMFO=0)

<https://unifiedaccess.mphasis.com/>

<https://dotnettutorials.net/lesson/net-developer-roadmap/>

<https://learn.microsoft.com/en-us/aspnet/core/security/?view=aspnetcore-8.0>

<https://www.interviewbit.com/interview-preparation-kit/study-plan-3-months/>

<https://learn.microsoft.com/en-us/dotnet/csharp/programming-guide/classes-and-structs/access-modifiers>

## Cassandra Advantages and Drawbacks

<https://www.simplilearn.com/cassandra-vs-mongodb-article#:~:text=Here%20are%20Cassandra's%20downsides%3A,same%20information%20stored%20multiple%20times>

## Stateful vs Stateless

<https://www.geeksforgeeks.org/difference-between-stateless-and-stateful-protocol/>

$$20 = x - (x * 20/100)$$

$$20 = x - 20x/100$$

$$20 = 80x / 100$$

$$2000 = 80x$$

$$2000/80 = x$$

$$X = 25$$

iBeChPa#1275 - TCS

Question banks : <https://sbdsisaikat.wordpress.com/category/computer-science/page/2/>

## **Job Description-**

As Team Lead of Software Engineering, you will lead a team of developers that are a part of a Global Product

Development team. This is an incredible opportunity for you to make the organization's products successful in the international market.

## **Role & Responsibilities -**

Candidate should have the ability to analyze problem and come up with solutions.

Candidate should have prior experience of managing technology teams

Candidate should be a self-starter, creative thinker and quick on the feet

Candidate should possess a never-stop-learning attitude and be ready for challenges

Candidate should have a positive attitude .

Candidate should be able to provide solutions considering customer and market requirements

Candidate should be able to work in a highly dynamic work environment

In case of anything critical, candidate should be available and flexible to solve the problem

Candidate should have the ability to grasp new technology

Responsible for the geo-line or feature requests assigned to you and the team

Manage a team of developers

Ensuring that the product deliverable are met both with quality and in a timely manner

Provide an on-time response and stick with our SLA policy

Debug the code and discover issues

Coordinate with the developers to find out the cause of Issues

Write simple, efficient code and review it thoroughly

Should be able to work in agile mode

## **Job Requirement:**

candidate should have a minimum of 3+ years of experience having Engineering degree, MCA or Post graduate diploma holders.

Candidate should be a team player with stellar technology, team management and communication skills

## **Technology skills:**

[ASP.NET](#)

MVC

WEB API

C#

JavaScript

.NET Core

JQuery

SQL/MongoDB

Angular

Security measures

Antiforgery token

Tokens where it is being store

IEnumerable vs IEnumerator

Sql injection in .net

Ssrs

Linq parallel

# Common interview questions

30 November 2023 10:45

11-12-2023

1)What is SOLID Principle?

2)What is Data Reader and Execute Scalar?

3)Execute Scalar Give the result of one table or multiple table?

<https://www.c-sharpcorner.com/blogs/executereader-executenonquery-and-executescalar-in-adonet#:~:text=ExecuteScalar%20method%20is%20used%20to,result%20set%20from%20a%20database.>

4)How many Years Exp Do You Have Exp in dot net Core?

5)What is Dependency Injection?

6)How The Dependency is injected?

Dependency Injection (DI) is a software design pattern that helps developers build better software. It allows us to develop loosely-coupled code that is easy to maintain. Dependency Injection reduces the hard-coded dependencies among your classes by injecting those dependencies at run time instead of design time technically.

1.polymorphism

2.collections

3. Data Strings

4.Sql Connection

5.simple program print s,ss,sek,sek,sekh,sekh

6.Abstracts

7.sessions

8.cookies

9.Boxing and unboxing

10.Dellegates

11.Injection

1. Diffrent Between Constant And Read only ?

<https://www.geeksforgeeks.org/difference-between-readonly-and-const-keyword-in-c-sharp/>

2. Diffrent Between string and string Builder ?

3. Diffrent Between Boxing and Unboxing ?

4. Different Between Convert.ToString() AND ToString().

5. Explain collection ?

6. Explain Dellegates ?

7. What is the use of new keyword ?

8. Oops concept ?

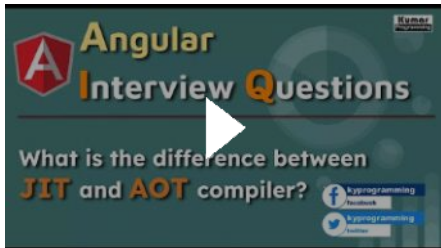
9. Diffrent Between Abstract class and Interface.

10. Diffrent Between Overloading and Overriding.

11.what is SQL injection

12. Hashtable

AOT vs JIT [Angular Interview Questions - Difference between JIT and AOT Compiler](#)



Create custom middleware

Singleton pattern : <https://www.c-sharpcorner.com/UploadFile/8911c4/singleton-design-pattern-in-C-Sharp/>

Subject -- in frontend

Reverse the order of words of given string without using in-built functions

ACID principle

Solid principle

Linq left and right joins

What is Func and how to create

SOAP vs Rest

Explain the angular architecture

Default exception methods

Asp.net page life cycle

Reverse string

Pyramid print

Jquery interview questions - **Must**

Sessions in .net core

.net core 3.1 vs 6

How to access non static member of static class

can static class have non static method in c#

**A static class in C# can only contain static methods and members. Static classes cannot contain non-static members because they cannot be instantiated.**

can we inherit static class in c#

**No, you cannot inherit static classes in C#. Static classes are sealed, which means they cannot be inherited. They also cannot inherit from any class or interface except Object**

How to access static files in .net core

<https://learn.microsoft.com/en-us/aspnet/core/fundamentals/static-files?view=aspnetcore-8.0>

Filter vs map in jquery (these are called higher order function)

**The map and filter functions in JavaScript are both higher-order functions that take a function as an argument and return a new array based on the results of applying that function to each**

element of the original array.

However, there are some key differences between the two functions.

The map function applies the function to each element of the array and returns a new array with the results.

The filter function, on the other hand, applies the function to each element of the array and returns a new array with only the elements that satisfy the condition specified by the function.

can we have multiple document.ready() function on the same page

What is code access security : [What is CAS, evidence, permission set & code groups?](https://learn.microsoft.com/en-us/dotnet/framework/data/adonet/code-access-security)

<https://learn.microsoft.com/en-us/dotnet/framework/data/adonet/code-access-security>

<https://www.geeksforgeeks.org/what-is-code-access-security/>



Thank you so much everyone to being a most wonderful and memorable part of my life. I still don't believe that I have completed 2 successful years with you and it feels like yesterday I came and I got introduced to you but yea it is part of life, I will take this as a good chapter of my life where I have enjoyed each and every moment with you. I have much more to say but it will become an essay. So wishing you all the best, I'm going to miss you all very hard and keep missing me. See you on Wednesday

What is difference btwn Array and ArrayList and which is faster

How to update multiple tables at a time in sql

Which one is better loop or cursor in sql

# Siddhesh

05 December 2023

10:36

[03-12-2023 12:45] Siddhesh Bnp: bhuvitha\_kanupuru@epam.com  
[03-12-2023 12:45] Siddhesh Bnp: rahul.2.koul@atos.net  
[03-12-2023 12:45] Siddhesh Bnp: rajani.das@nice.com  
[03-12-2023 12:45] Siddhesh Bnp: Sagar.BARATE@3ds.com  
[03-12-2023 12:45] Siddhesh Bnp: Mansi.Tank@xoriant.com  
[03-12-2023 12:45] Siddhesh Bnp: rekha-c.kashyap@capgemini.com  
[03-12-2023 12:45] Siddhesh Bnp: sachin.rajewar@fisglobal.com  
[03-12-2023 12:45] Siddhesh Bnp: kajal.shishodia@Intinfotech.com  
[03-12-2023 12:45] Siddhesh Bnp: shivangi.singh@brillio.com  
[03-12-2023 12:45] Siddhesh Bnp: tmehta@amazon.com  
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[Abhinesh.Aswar@timindtree.com](mailto:Abhinesh.Aswar@timindtree.com)

Unnati shah not answering  
Shreya Sharma not answering  
Celsius Hr not connecting  
Arun Nax Arcon HR - Shared resume  
Neha Wankhade not answering  
Trupti Nemishte not answering  
Watch your health shared resume  
Kiran Orion not answering  
Siemen HR - got new number from him  
G C - shared resume

| Requisites                        |   |
|-----------------------------------|---|
| Education:                        | MCA / Computer Engineering  |
| Overall Experience                | 5 to 7 years  |
| Relevant Experience (years):      | 5 – 7 years   |
| Industry / Technology background: | Full stack developer  |
| Location:                         | Mumbai  |
| Working Hours:                    | Full Time , Openness/willingness to work/support UK Hours   |
| Role Summary:                     | <p>The candidate would be working with highly motivated development team with strong hands-on experience and would be responsible for ongoing development of application, task execution, new development activities.</p> <p>Candidate must fulfill the essential technical skills, be good at logical reasoning.</p> |

Skill set / Responsibilities

Essential:

- Minimum 5+ years' experience developing software for enterprise applications / solutions
- Developing high-performing, multi-threaded, real-time software

| Technologies  | Hands-on Experience (Years) | Priority |
|---|-----------------------------|----------|
| Front end skills:   |                             |          |
| Web client development with React                               | 5+                          | 1        |
| Web client design patterns e.g. Strategy, Observer              |                             | 1        |
| Consuming RESTful APIs, web services                            | 3+                          | 1        |
| WebView2  | 5+                          | 1        |
| Stencil JS  | 5+                          | 1        |
| TypeScript  | 5+                          | 1        |
| Tailwind CSS  | 3 +                         | 1        |
| Unit testing - Jest, React testing library and Vite test runner | 5+                          | 1        |

| Technologies   | Hands-on Experience (Years) | Priority |
|--|-----------------------------|----------|
| Back end skills:   |                             |          |
| C# with .NET 6.0 or later                                      | 5+                          | 1        |
| ASP.NET  | 5+                          | 1        |
| Domain Driven Design   | 3+                          | 2        |
| Entity Framework (EF7 Core)                                    | 3+                          | 2        |
| Microservice design patterns e.g. CQRS, backends for frontends | 3+                          |          |
| Windows System Services  | 3+                          |          |
| Building RESTful APIs, web services                            | 5+                          | 1        |
| MedaitR / Rebus  |                             |          |
| Unit testing – xUnit   | 5+                          | 1        |

Essential Personal Skills

- Communicate effectively, both written and verbally, with other team members (Onshore and Offshore).
- Excellent analytical and problem-solving skills
- Develop Software to supplied User Story/FRS requirements within agreed timescale & with minimum supervision.
- Ability to handle pressure when required.
- Is a good team player.
- Suggest code improvements to other developers in order to optimize performance of the application.

WebView2

<https://learn.microsoft.com/en-us/microsoft-edge/webview2/>

Microservice Pattern

<https://microservices.io/patterns/microservices.html>



# EF & EF Core

07 December 2023 06:42

How can you configure relationships between different entities in Entity Framework Core?

In Entity Framework Core, relationships between entities are configured using Fluent API or Data Annotations. Fluent API is used in the OnModelCreating method within your DbContext class. For one-to-one relationships, you use HasOne and WithOne methods. For one-to-many, you use HasMany and WithOne. For many-to-many, you create a join entity and configure two one-to-many relationships. Data Annotations involve decorating your model properties with attributes like [ForeignKey], [Required], etc. However, it's less flexible than Fluent API as it can't configure everything.

From <<https://interviewprep.org/entity-framework-core-interview-questions/>>

Official doc

<https://learn.microsoft.com/en-us/ef/core/modeling/relationships>

Load related data : Eager loading / Lazy loading

<https://learn.microsoft.com/en-us/ef/core/querying/related-data/eager>

<https://entityframeworkcore.com/querying-data-loading-eager-lazy>

Fluent API

<https://www.entityframeworktutorial.net/efcore/fluent-api-in-entity-framework-core.aspx>

<https://dotnettutorials.net/lesson/fluent-api-in-entity-framework-core/>

<https://dotnettutorials.net/lesson/dbset-in-entity-framework/>

AsNoTracking

<https://entityframeworkcore.com/querying-data-asnottracking>

Relations - Detect changes - Navigation property / foreign key

<https://learn.microsoft.com/en-us/ef/ef6/fundamentals/relationships>

For tutorial reference

<https://www.learnentityframeworkcore.com/>

<https://learn.microsoft.com/en-us/ef/ef6/fundamentals/performance/perf-whitepaper#3-caching-in-the-entity-framework>

Questions

<https://interviewprep.org/entity-framework-core-interview-questions/>

<https://www.interviewbit.com/entity-framework-interview-questions/>

Linq Joins

<https://www.dotnettricks.com/learn/linq/sql-joins-with-csharp-linq>

# HTTP

08 December 2023 07:46

## Content Negotiation

<https://code-maze.com/content-negotiation-web-api/>

<https://learn.microsoft.com/en-us/aspnet/web-api/overview/formats-and-model-binding/content-negotiation>

# Angular Tutorial

09 December 2023 08:34

## Command to install angular cli

```
npm install -g @angular/cli@latest
```

## Command to update npm

```
npm install -g npm@latest
```

## Version check

```
npm version
```

## Command to install latest version

```
npm install -g npm@latest
```

## To resolve below issue

Issue : AppData\Roaming\npm\ng.ps1 cannot be loaded because running scripts is disabled on this system

This error occurs when your system has disabled the running script and your system is can't accept the ng commands. This error occurs due to security reasons and won't let the script be executed on your system without your approval. Then you have to open the PowerShell with administrative rights.

Solution : <https://www.c-sharpcorner.com/article/how-to-fix-ps1-can-not-be-loaded-because-running-scripts-is-disabled-on-this-sys/>

## Angular Naming Convention

<https://medium.com/@sapananavtake27/naming-conventions-in-angular-84e0ac3bb5c9>

## Server-Side Rendering (SSR) and Static Site Generation (SSG/Prerendering)

## Promises vs Observables - Angular

Promises and observables are both used in Angular to manage asynchronous code

| Observables   | Promises  |
|---|---|
| Emit multiple values over a period of time.   | Emit a single value at a time.                    |
| Are lazy: they're not executed until we subscribe to them using the subscribe() method.   | Are not lazy: execute immediately after creation. |
| Have subscriptions that are cancellable using the unsubscribe() method, which stops the listener from receiving further values. | Are not cancellable.                              |
| Provide the map for forEach, filter, reduce, retry, and retryWhen operators.  | Don't provide any operations.                     |
| Deliver errors to the subscribers.  | Push errors to the child promises.                |

[Promises vs Observables - Angular \(Tutorial #30\)](#)

RxJS library for observable : <https://rxjs-dev.firebaseapp.com/guide/observable>

| Promise  | Observable  |
|--|---|
| Promises execute immediately on creation, Promises are eager | Observables are declarative; computation does not start until subscription. Its Lazy                      |
| Promises emit single value                                   | Emits multiple values over a period of time   |
| Promise don't have operators                                 | Observables provides operators like map, filter, reduce, retry, that is useful for complex transformation |
| Promise can't be cancel                                      | Observables can be cancel using unsubscribe method  |

In general, promises are a good choice for simple asynchronous operations, while observables are a better choice for more complex operations or for operations that need to be streamed over time.

## HTTP Interceptor

<https://www.youtube.com/watch?v=Qg9Y2Mv2l2M&t=0s>

## Life Cycle Hooks

<https://www.youtube.com/watch?v=kKtrHrcilVs>

# SQL

11 December 2023 06:35

<https://www.sqlshack.com/top-10-questions-answers-sql-server-indexes/>

<https://www.sqlshack.com/top-25-sql-interview-questions-and-answers-about-indexes/>

<https://www.tutorialspoint.com/how-to-update-two-tables-in-one-statement-in-sql-server>

SQLbxt- Notepad

File Edit Format View Help

Learn SQL Server Step by step

In what sequence SQL statements are processed?

The clauses of the select are processed in the following sequence

FROM clause

WHERE clause

GROUP BY clause

HAVING clause

SELECT clause

ORDER BY clause

TOP clause

1: - Basic Fundamentals Database, Tables, rows and columns

2: - Primary key, foreign key, referential integrity and constraints.

3: - Database Normalization (1st, 2nd and 3rd normal forms).

4:

SQL basics(Select, Insert, Update and Delete)

5:

ISNULL and Coalesce functions

6: - Row\_Number, Partition, Rank and DenseRank

Triggers, inserted and deleted tables

7:

8:

Instead of and after triggers

9: - Denormalization, OLTP and OLAP

10: - Understanding star schema and Snow flake design.

11: - SQL Server 8 kb pages

12: - Index and performances

Page Split and indexes

13:

14: - Clustered vs non-clustered

15: - Stored procedures and their importance.

16:

Change Data capture

18: - How can we implement Pivot & Unpivot in SQL Server? column to row

Temporary tables, CTE types of its scope life

Linked server bulk insert

partition by group by

execution plan sql profiler how to debug

magic table, two data join what options available

want character, sp inside sp, sequence of statements

null blank diff ; syntax to Using an existing table, make an empty one. select \* into employeecopy from employee where 1=2

Print odd records from table

Select employeeid from (Select rowno, employeeid from employee) where mod(rowno, 2)=1

Retrieve the first 3 characters from a character string.

Select SUBSTRING(Employeesurname, 1, 5) as employeesurname from employee

How would you retrieve common records from two tables? Select employeeid from employee. INTERSECT Select EmployeeID from Workshift

diff on clause n where clause

Ln 1.Col 1

\*SQLbxt - Notepad

Help

File Edit Format View

Working on Recursive CTE, Hash Tables, Table Variables, Magic Tables, Computed Columns, Cursor, User Define Functions(UDF), Link server,

diff on clause n where clause

SQL Profiler, Database Tuning Advisor, Table Statistics, Index Defragmentation, SQL Synonyms, SQL Execution Plan, Bulk Import and Export (BCP),

Knowledge of SQL Server AlwaysOn (Replication, Log Shipping, Mirroring, Cluster).

Worked on Migration SQL Database from one server to another one

Creating and managing SQL Jobs in software system processes.

Store Procedure debugging for issue resolution in program.

Creating user defined Functions for Software System.

Worked on sp\_send\_dbmail procedure to send mail using Sql queries.

Experience with Sql dynamic queries

Experience in database backup and restore

Experience in monitoring SQL Server Performance using SQL Profiler and Windows Performance Monitor

What is blocking ::

Deadlock

In query optimization what all items you look for to understand if query is not optimized

DB tuning : What structure can you implement for the database to speed up table reads?

If you have to move 5 million rows from one server to another using T-SQL with a linked-server

What will you consider to avoid transaction log fill up at destination server?

Jobs

Query to print below output

1

A

3

A

S

What's the logical difference, if any, between the following SQL expressions?

Statement 1

FROM Employees

SELECT COUNT (

J

statement

SELECT SUM ( 1) FROM Employees

They're the same unless table Employee table is empty, in which case the first yields a one- column, a one- row table containing zero, and the second yields a one-column, one-row table "containing a null.

Ln 81, Col 1

100%

What is the difference between DDL and DML?

3 DML commands are used to create or modify data in a database. DDL commands are used to create or modify structure (attributes) of database objects

What is the difference between primary key and unique key?

A primary key does not allow NULLs but a unique key allows NULLs

What is a Cartesian product of two tables?

A Cartesian product joins every row of first table with every row of the second table

What is trigger? Types of triggers?

A trigger is a block of SQL code that system executes automatically when there is a modification to database. Types of triggers are DML triggers and DDL triggers (also known as System Triggers)

Is it possible to update base tables from views?

Yes, but only if the view is a simple view.

Is it advisable to update base tables from views?

Usually it is not advisable to operate DML on views

What is temporary table? Which database are they created in?

Temporary tables are tables used to store temporary data for quick reference. They are created in the tempDB database.

What are the types of temporary tables?

There are two types: Local Temporary table and Global temporary table

What are different type of indexes? (either one of below answers will do)

B-tree and bitmap indexes

Clustered and non-clustered indexes

When is bitmap index useful and when is b-tree index useful?

When cardinality is 1S high then a 9 b-tree index is better and when cardinality is low a bitmap index is better.

Is DML possible in function (do not ask to candidates with Oracle experience)

From <<https://mail.google.com/mail/u/0/?tab=rm&ogbl#label/Interviews/KtbxLxGvZBzrScbSbLmpffMmLpkfxqdmQV>>

13 Specifics of analytical functions: Row\_Number, Partition, Rank and DenseRank

14 Triggers, inserted and deleted tables

15 Instead of and after triggers.

16 Denormalization, OLTP and OLAP

17 Understanding Star schema and Snow flake design.

18 SQL Server 8 kb pages.

19 Page Split and indexes

20 Change Data Capture.

21 How can we implement Pivot & Unpivot in SQL Server? column to row

22

M

23 Working on Recursive CTE, Hash Tables, Table Variables, Magic Tables, Computed Columns, Cursor, User Define Functions(UDF), Link server,

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2 Experience in database backup and restore

3 Experience in monitoring SQL Server Performance using SQL Profiler and Windows Performance Monitor

4 What is blocking?

5 Explain Deadlock

5 DB tuning: What structure can you implement for the database to speed up table reads?

7If you have to move 5 million rows from one server to another using T-SQL with a linked-server.

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Database Jobs

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N

R

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HAVING clause

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ORDER BY clause

TOP clause

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SELECT SUM (1) FROM Employees

They're the same unless table Employee table is empty, in which case the first yields a one-column, a one-row table containing zero, and the second yields a one-column, one-row table "containing a null."

T

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'Must answer' type of Question

'Good to know' type of Question

#### 5+ Experience

What is pipeline function (Oracle specific)

What is an autonomous transaction, are uncommitted changes from main transaction visible in autonomous transaction

Example how Pragma autonomous works

What is Bulk Collect in PL/SQL

Sample program to process bulk data. (Syntax can be wrong but logic to be checked)

slow running query; first steps how will you find out what is wrong

what is a plan; how to get plan for a query

Exposure on AWR, Autotrace (Oracle, Good to have)

What can be the reason if index is not working

How to suggest optimizer to use index

Hierarchical query (ORACLE)/ write query to print next 7 dates starting from today

What is table partitioning (Good to have)

What is difference between clustered and non clustered index

#### 4 1-5 Year Experience

5 What is difference between DDL and DML

6 What is difference between primary key and unique key

7 Can a unique key be referred as Foreign key in other table

Given a sample query, what are the number of records in result set when different types of joins are

8 applied (INNER, RIGHT, LEFT, FULL OUTER)

9 What is a Cartesian product (No. of rows will get with example)

10 DELETE vs TRUNCATE, which is faster and why

11 Can we rollback post truncate (Oracle specific)

12 Practical question for DDL auto-commit; Savepoints (Oracle specific)

13 Practical questions on Aggregation, Having Clause (Write query based on sample table structure)

14 Analytical functions (Write query based on sample table structure)

15 What is significance of Partition by clause in analytical functions (Good to have)

16 Sample subquery question

17 What is a view and types of views

8 Is it possible to update base tables from views

9 What will happen to view and index if we drop base table

If base table is dropped and writing select from view and Mview. What will be output of View and

0 Mview.

1 How to refresh a materialized view (ORACLE)

2 What is temp table; types of temp table

If a Global Temp Tbl is created in a transaction/session will it still exist after the original session

3 terminates?

What are different type of indexes

5 When is a bitmap index useful and when is b-tree

What is cardinality of a table?

Ideal position of wildcard so that index on the varchar column is used (with explanation)

Is DML possible in function (Sybase/MSSQL)

Representing many to many relationship between two entities in a database (mapping table, normalization)

0

What is trigger and types of triggers

What is mutating table error and how to prevent it

Example Question

Comments

find number of employees in each department with salary > 10000

find oldest employee in each department

find oldest employee in each department

Good to know for <3 yr experience; must know for others

# Knight Fintech

27 December 2023 05:19

We are urgently hiring for  
Associate Technical Manager / Technical Manager  
who

can write clean, scalable code using  
ASP.Net

• C# [ASP.NET](#) MVC / Web API/ WCF / Entity Framework / JQUERY/ JavaScript/AJAX /LINQ / SQL  
Server / Angular JS / React JS

- Good knowledge in development using Microsoft SQL Server
- Develop software solutions by studying information needs; studying systems flow, data usage, and work processes; following the software development life cycle.
- Comfortable with common software design patterns and best practices
- Understanding and implementing the business logic
- Test and maintain software products to ensure strong functionality and optimization
- Identify bottlenecks and bugs, and devise solutions to mitigate and address these issues

Requirements:

- Advanced proficiency in C#, [ASP.NET](#) and MVC
- Outstanding analytical, problem-solving, and communication skills
- Excellent organizational and time management skills
- Self-driven, flexible, and innovative. "