ADO.NET Job Interview Questions And Answers



Interview Questions Answers

https://interviewquestionsanswers.org/

About Interview Questions Answers

Interview Questions Answers. ORG is an interview preparation guide of thousands of Job Interview Questions And Answers, Job Interviews are always stressful even for job seekers who have gone on countless interviews. The best way to reduce the stress is to be prepared for your job interview. Take the time to review the standard interview questions you will most likely be asked. These interview questions and answers on ADO.NET will help you strengthen your technical skills, prepare for the interviews and quickly revise the concepts.

If you find any **question or answer** is incorrect or incomplete then you can **submit your question or answer** directly with out any registration or login at our website. You just need to visit <u>ADO.NET Interview Questions And Answers</u> to add your answer click on the *Submit Your Answer* links on the website; with each question to post your answer, if you want to ask any question then you will have a link *Submit Your Question*; that's will add your question in ADO.NET category. To ensure quality, each submission is checked by our team, before it becomes live. This <u>ADO.NET Interview</u> preparation PDF was generated at **Wednesday 29th November, 2023**

You can follow us on FaceBook for latest Jobs, Updates and other interviews material. www.facebook.com/InterviewQuestionsAnswers.Org

Follow us on Twitter for latest Jobs and interview preparation guides. https://twitter.com/InterviewQA

If you need any further assistance or have queries regarding this document or its material or any of other inquiry, please do not hesitate to contact us.

Best Of Luck.

Interview Questions Answers.ORG Team https://InterviewQuestionsAnswers.ORG/ Support@InterviewQuestionsAnswers.ORG

ADO.NET Interview Questions And Answers Guide.

Question - 1:

How to find the count of records in a dataset?

Ans:

DS.Tables["tabname"].Rows.Count; we can get count of the records.

View All Answers

Question - 2:

what is data Adapter?

Ans:

Data adapter is bridge between Connection and DataSet, Data adapter in passing the sql query and fill in dataset

View All Answers

Question - 3:

What is Isolation?

Ans:

A transaction is a unit of isolation? allowing concurrent transactions to behave as though each were the only transaction running in the system.

Isolation requires that each transaction appear to be the only transaction manipulating the data store, even though other transactions may be running at the same time. A transaction should never see the intermediate stages of another transaction.

Transactions attain the highest level of isolation when they are serializable. At this level, the results obtained from a set of concurrent transactions are identical to the results obtained by running each transaction serially.

Because a high degree of isolation can limit the number of concurrent transactions, some applications reduce the isolation level in exchange for better throughput.

View All Answers

Question - 4:

What is Atomicity?

Ans:

A transaction is a unit of work in which a series of operations occur between the BEGIN TRANSACTION and END TRANSACTION statements of an application. A transaction executes exactly once and is atomic?

all the work is done or none of it is.

Operations associated with a transaction usually share a common intent and are interdependent.

By performing only a subset of these operations, the system could compromise the overall intent of the transaction. Atomicity eliminates the chance of processing a subset of operations.

View All Answers

Question - 5:

Explain acid properties?

Ans:

The term ACID conveys the role transactions play in mission-critical applications. Coined by transaction processing pioneers, ACID stands for atomicity, consistency, isolation, and durability.

These properties ensure predictable behavior, reinforcing the role of transactions as all-or-none propositions designed to reduce the management load when there are many variables.

View All Answers

Question - 6

What is the provider and namespaces being used to access oracle database?



ADO.NET Interview Questions And Answers

Ans:

The provider name is oledb and the namespace is system.data.oledb

View All Answers

Question - 7:

What provider ADO.net use by default?

Ans:

Ado.net uses no Dataprovider by default and this is absulotely correct answere, there is no other choice for this question

View All Answers

Question - 8:

What we do with the object of ado.net dataset after using it? Can we dispose it or can we set it nothing? Is it must or not?

Ans:

we use dispose

View All Answers

Question - 9:

What are the two fundamental objects in ADO.NET?

Ans:

Datareader and Dataset are the two fundamental objects in ADO.NET

View All Answers

Question - 10:

What are the different row versions available in table?

Anc.

There are four types of Rowversions.

Current:

The current values for the row. This row version does not exist for rows with a RowState of Deleted.

Default

The row the default version for the current DataRowState. For a DataRowState value of Added,

Modified or Current, the default version is Current. For a DataRowState of Deleted, the version is Original.

For a DataRowState value of Detached, the version is Proposed.

Original:

The row contains its original values.

Proposed:

The proposed values for the row. This row version exists during an edit operation on a row, or for a row that is not part of a DataRowCollection.

View All Answers

Question - 11:

What is data access layer?

Ans

Data Access layer is actually a part of Architecture layer. It has 2 tier,3 tier or N tier Layer. Generally we use 3 tier Layer 1) Presentation layer,Business Logic layer and then Data Access Layer. Data Access layer is a medium to talk between database and Business Logic layer.

It helps to maintain flexibility,resuablity and even security also. In security SQL Injection can be stopped with 3 iter Architecture.

View All Answers

Question - 12:

If a table contains 20000 records . In a page at each time 100 records to be displayed. What are the steps u will take to improve performance? will you use dataset or datareader?

Δns:

we have to use a dataset because on using datareader forward only paging can be achieved.

Suppose if you are at 1000 page and you want to go back to 999th page, if you use datareader it cannot be achieved, since it does not support backward navigation. Dataset supports forward and backward navigation

View All Answers

Question - 13:

what is bubbled event can u pls explain?

Ans

all heavy controls like grid view,datagrid or datalist,repeater controls cantains the chield controls like button or link button, when we click this button then the event will be raised, that events are handled by parant controls,that is called event bubbling,means event is bubbled from bottom(chield)to up(parant).

View All Answers

Question - 14:

What is different between SqlCommand object and Command Behavior Object?

ADO. NET Interview Questions And Answers

Ans:

DO.NET Command Object - The Command object is similar to the old ADO command object.

It is used to store SQL statements that need to be executed against a data source.

The Command object can execute SELECT statements, INSERT, UPDATE, or DELETE statements, stored procedures, or any other statement understood by the database.

View All Answers

Question - 15:

Can dataReader hold data from multiple tables?

Δns·

data reader can hold data from multiple tables and datareader can hold more than one table.

```
string query="select * from employee; select * from student"; sqlcommand cmd=new sqlcommand(query, connection); sqldatareader dr=cmd.executeReader(); if(dr.hasrows) {
    dr.read();
    gridview1.DataSource=dr;
    gridview1.Databind();
    if(dr.nextresult) {
        gridview2.datasource=dr;
        gridview2.databind();
    }
    dr.colse();
    connection.close();
    View All Answers
```

Question - 16:

I loaded the dataset with a table of 10 records. One of the records is deleted from the backend, How do you check whether all the 10 records were present while updating the

data(Which event and steps) and throw the exception.

Ans:

By Using the Transactions we can check the Exact Numbers of the rows to be updated and if the updation fails then the Transaction will be rollbacked.

View All Answers

Question - 17:

what is typed and untyped dataset?

Ans:

A DataSet can be Typed or Untyped. The difference between the two lies in the fact that a Typed DataSet has a schema and an Untyped DataSet does not have one. It should be noted that the Typed Datasets have more support in Visual studio.

View All Answers

Question - 18:

How to call the SQL commands asynchronously in ADO.NET version 2.0?

Ans:

```
executescalar()
executereader()
executenonquery()
these comes with Begin and End like Beginexecutescalr() Endexecutescalar()......
by using these command we can achieve asynch comm in ado.net

View All Answers
```

Question - 19:

How to copy the contents from one table to another table and how to delete the source table in ado.net?

Ans:

```
it is possible
DataSet ds;
sqlAdap.Fill(ds);
Datatable dt = ds.Tables[0].copy();
//now the structure and data are copied into 'dt'
ds.Tables.remove(ds.Table[0]);
//now the source is removed from the 'ds'
```

View All Answers

Question - 20:

How to find the given query is optimised one or not?



ADO.NET Interview Questions And Answers

Ans:

First Excute Sql Quries in Query Analzer, see How much time 2 take Excute, if Less then the ur desired Time, then it will Optimize query

View All Answers

Question - 21:

Why ca not we use Multiple inheritance and garbage collector paralelly in .net?

Δns.

.net doesn't support the mutiple inheritance, perhaps you may talk about multi-level inheritance.

In the later case, if a class is inherited from another class, at the time of creating instance, it will obviously give a call to its base class constructor (ie bottom - top approach). Like wise the constructor execution is takes place in top down approach (ie. base class constructor is executed and the derived class constructor is executed).

So for GC, it will collect only when an object does not have any reference. As we see previously, the derived is constructed based on base class. There is a reference is set to be. Obviously GC cannot be collected.

View All Answers

Question - 22:

Difference between SqlCommand and SqlCommandBuilder?

Ans:

a) SQLCommand is used to execute all kind of SQL queries like DML(Insert, update,Delete) & DDL like(Create table, drop table etc) b)SQLCommandBuilder object is used to build & execute SQL (DML) queries like select, insert, update & delete.

View All Answers

Question - 23:

why edit is not possible in repeater?

Ans:

It has no such feature.

View All Answers

Question - 24:

Does SQLClient and OLEdb class share the same functionality?

Ans:

No, each have its own functionality, ex: for sql client, there is SqlConnection object and for oledb client, there is OleDBConnection

View All Answers

Question - 25:

What is the difference between data reader and data set?

Δns

- 1) DataSet is disconnected object type. It uses XML to store data.
- 2) It fetches all data from the data source at a time
- 3) Modifications can be updated to the actual database
- 4) It will reduce the application performance.

View All Answers

Question - 26:

What is the difference between data reader and data adapter?

Ans:

DateReader is an forward only and read only cursor type if you are accessing data through DataRead it shows the data on the web form/control but you can not perform the paging feature on that record(because it's forward only type). Reader is best fit to show the Data (where no need to work on data)

DataAdapter is not only connect with the Databse(through Command object) it provide four types of command (InsertCommand, UpdateCommand, DeleteCommand, SelectCommand), It supports to the disconnected Architecture of .NET show we can populate the records to the DataSet. where as Dataadapter is best fit to work on data.

View All Answers

Question - 27:

what are the advantages and disadvantages of using datalist?

Ans

Adv: the DataList's display is defined via templates, DataList allows for much more customization of the rendered HTML markup, by which it is more user-friendly displays of data.

DisAdv:

adding such functionality with the DataList takes more development time than with the DataGrid, as,

- 1. The Edit/Update/Cancel buttons that can be created in a DataGrid via the EditCommandColumn column type, must be manually added to the DataList, and
- 2. The DataGrid BoundColumn column types automatically use a TextBox Web control for the editing interface, whereas with the DataList you must explicitly specify the editing interface for the item being edited via the EditItemTemplate.

3. we can't do the paging and sorting with datalist controls.

View All Answers

Question - 28:

What is Partial class?

Ans:

A Partial class is a class that can be split into two or more classes. This means that a class can be physically separated into other parts of the class within the same namespace. All the parts must use the partial keyword. All the other classes should also have the same access modifier. At the compile time, all the partial classes will be treated as a single class. Let us list some advantages of having partial classes.

View All Answers

Question - 29:

How do you connect to SQL Server Database without using sqlclient?

Ans:

you can connect sql using oledbname space.

View All Answers

Question - 30:

What are the steps to connect to a database?

Ans:

- 1. Create a connection. This requires a connection string, which can be given declaratively or put in a well defined place like the .config files. Advantage of keeping in .config files is that it enables use of Connection Pooling by .Net framework, else even one small change in connection string will cause CLR to think it's not the same connection and will instantiate new connection for other request.
- 2. Open the connection and keep it open until done, typically done as using (con) { //use }
- 3. If using connected data model, create a SqlCommand object, decorate it with desired command, command type (stored procedure for eg), add any parameters and their values to the command, and then consume the command by using ExcuteReader or ExecuteScalar. In case of ExecuteReader, we will get back a handle to a fast-forward, read only pointer to the recordset. We can also decorate Command object with multiple recordsets in 2.0 and execute one by one (MARS Multiple Active Record Sets)
- 4. If using disconnected data model, create a DataAdapter object, decorate it with desired SELECT, INSERT, UPDATE, DELETE commands, add parameters as necessary and then fill up a DataSet or DataTable using the DataAdapter. Subsequent SQL can be executed using insert, update, delete commands on the dataset.

View All Answers

Question - 31:

How do you update a Dataset in ADO.Net and How do you update database through Dataset?

Ans:

a. Update a dataset;

Dataset ds = new dataset();

SqlDataAdapter adp = new SqlDataAdapter(Query,connection);

Adp.fill(ds);

Again you can add/update Dataset as below

SqlDataAdapter adp1 = new SqlDataAdapter(Query1,connection);

Adp1.fill(ds);

b. Update database through dataset.

SqlCommandBuilder mySqlCommandBuilder = new SqlCommandBuilder(mySqlDataAdapter);

Foreach(datarow dr in ds.table[0].rows)

{

Dr["column Name"] = "value";

mySqlDataAdapter.Update(ds);

View All Answers

Question - 32:

What is Delegate?

Ans:

Delegate is an important element of C# and is extensively used in every type of .NET application. A delegate is a class whose object (delegate object) can store a set of references to methods.

View All Answers

Question - 33:

What is connection String?

Ans

connection String - a string which contains address of the database we want to connect to.

View All Answers

Question - 34:

ADO. NET Interview Questions And Answers

How can we load multiple tables in to Dataset?

Ans

DataSet ds=new DataSet();

SqlDataAdapter dap=new SqlDataAdapter(Select * from <tablename>,<connection1>);

dap.Fill(ds,"TableOne");

SqlDataAdapter dap1=new SqlDataAdapter(Select * from <tablename>,<connection1>);

dap1.Fill(ds,"tableTwo");

View All Answers

Question - 35:

Which one of the following objects is a high-level abstraction of the Connection and Command objects in ADO.NET?

Ans:

DataReader DataSet DataTable DataView DataAdapter

Answer: DataAdapter

View All Answers

Question - 36:

What is the ExecuteScalar method?

Ans:

// Summary:

Executes the query, and returns the first column of the first row in the result set returned by the query. Additional columns or rows are ignored.

// Returns:

The first column of the first row in the result set, or a null reference (Nothing in Visual Basic) if the result set is empty.

View All Answers

Question - 37:

Explain ExecuteNonQuery?

Ans:

// Summary:

// Executes a Transact-SQL statement against the connection and returns the number of rows affected.

// Returns:

// The number of rows affected.

View All Answers

Question - 38:

how can i retrieve two tables of data at a time by using data reader?

Data reader read and forward only, how is it possible to get 2 tables of data at a time?

Ans:

yes this is possible

If we execute 2 select command either in stored procedure or in select command and then executereader method fired of command object, it return 2 tables in datareader.

like:

string str="Select * from a;select * from b";

cmd.commandtext=str;

dr=cmd.executereader();

Now it return 2 tables in datareader (dr).

View All Answers

Question - 39:

If we are not returning any records from the database, which method is to be used?

Ans

There is a method called Execute Non Query. This method executes the Update, Delete etc. This does not return any rows but will give the number of rows affected. View All Answers

Question - 40:

Can we do database operations without using any of the ADO.net objects?

Ans:

No its not at all possible.

View All Answers

Question - 41:

can we connect two dataadapters to same data source using single connection at same time?

Ans

yes, we can connect two dataadapters to same datasource using single connection at same time.

There is a technology in ado.net 2.0 called MARS using Mars in connection string we can do it.



ADO.NET Interview Questions And Answers

for eg:

cn.ConnectionString = "server=(local); database=employee; integrated security=sspi; MultipleActiveResultSets=True";

Question - 42:

What is ADO.NET?

ADO.NET is a part of the Microsoft .NET Framework. This framework provides the set of classes that deal with data communication between various layers of the software architecture and the database. It provides a continuous access to different data source types such as SQL Server versions 7, 2000, 2005. It also provides connectivity options to data sources through OLE DB and XML. Connectivity may be established with other databases like Oracle, MySQL etc. as well.

ADO.NET has the ability to separate data access mechanisms, data manipulation mechanisms and data connectivity mechanisms.

ADO.NET introduces along with it the disconnected architecture. In a disconnected architecture, data may be stored in a DataSet. It contains providers for connecting to databases, commands for execution and retrieval of results. Sys.

The classes for ADO.NET are stored in the DLL System.Data.dll.

View All Answers

Microsoft .Net Technologies Most Popular & Related Interview Guides

- 1: MSF Interview Questions and Answers.
- 2:. Net Architecture Interview Questions and Answers.
- 3: ASP.Net MVC Interview Questions and Answers.
- 4: Entity Framework Interview Questions and Answers.
- 5: C# (Sharp) Programming Language Interview Questions and Answers.
- 6: VB .Net Interview Ouestions and Answers.
- 7: WCF (Windows Communication Foundation) Interview Questions and Answers.
- 8: Crystal Reports Interview Questions and Answers.
- 9:.Net Database Interview Questions and Answers.
- 10: ASP Programming Interview Questions and Answers.

Follow us on FaceBook www.facebook.com/InterviewQuestionsAnswers.Org

Follow us on Twitter https://twitter.com/InterviewQA

For any inquiry please do not hesitate to contact us.

Interview Questions Answers.ORG Team https://InterviewQuestionsAnswers.ORG/ support@InterviewQuestionsAnswers.ORG