**[Maximum number of parameters you can pass in a Store procedure in SQL Server 2005?](http://www.dotnetfunda.com/interview/exam1297-maximum-number-of-parameters-you-can-pass-in-a-store-procedure-in-sql.aspx" \o "Maximum number of parameters you can pass in a Store procedure in SQL Server 2005?)**

2100

**[What is the name of the Store procedure to get the listing of current users?](http://www.dotnetfunda.com/interview/exam1278-what-is-the-name-of-the-store-procedure-to-get-the-listing-of-current.aspx" \o "What is the name of the Store procedure to get the listing of current users?)**

sp\_who

**[What is the use of WAITFOR in SQL SERVER ?](http://www.dotnetfunda.com/interview/exam1277-what-is-the-use-of-waitfor-in-sql-server-.aspx" \o "What is the use of WAITFOR in SQL SERVER ?)**

Suppose we want to execute one query now one one after some time then we need to use **WAITFOR TIME** for this.   
  
**Sample Query:**

BEGIN

SELECT 'Lakhan Pal'

DECLARE @time char(5)

SET @time=CONVERT(char(5),DateAdd(mi, 1, GetDate()),108)

WAITFOR TIME @time

SELECT ' Garg'

END

In the above Code SELECT 'Lakhan Pal' will be execute first and then after 1 min second select statement SELECT ' Garg' will be executed.

**[What is the Name of table that contains available data type in SQL Server?](http://www.dotnetfunda.com/interview/exam1276-what-is-the-name-of-table-that-contains-available-data-type-in-sql-ser.aspx" \o "What is the Name of table that contains available data type in SQL Server?)**

**sys.systypes** contains the Data type available in SQL Server.

**[Name of the table that contains the Configuration value of SQL Server ?](http://www.dotnetfunda.com/interview/exam1275-name-of-the-table-that-contains-the-configuration-value-of-sql-server.aspx" \o "Name of the table that contains the Configuration value of SQL Server ?)**

sys.configurations

**[What is the name of the System table from where we can read the Master Files (.mdf, .ldf) Path?](http://www.dotnetfunda.com/interview/exam1274-what-is-the-name-of-the-system-table-from-where-we-can-read-the-master.aspx" \o "What is the name of the System table from where we can read the Master Files (.mdf, .ldf) Path?)**

From **sys.master\_files** table we can find the master file information for mdf file file\_id is 1 and for ldf its value is 2.

**[Can we use shared lock with Update Statement?](http://www.dotnetfunda.com/interview/exam1273-can-we-use-shared-lock-with-update-statement.aspx" \o "Can we use shared lock with Update Statement?)**

No We can't use the shared lock to Update or modifty data. shared lock is used for select operation.   
e.g of shared lock is : WITH (HOLDLOCK)

**[What is the name of the table from which we can get the Locking information in SQL Server?](http://www.dotnetfunda.com/interview/exam1272-what-is-the-name-of-the-table-from-which-we-can-get-the-locking-inform.aspx" \o "What is the name of the table from which we can get the Locking information in SQL Server?)**

**sys.dm\_tran\_locks** is the System table used to store the locking infomation.

**[How we can implement Row lock explicitly in SQL Server?](http://www.dotnetfunda.com/interview/exam1271-how-we-can-implement-row-lock-explicitly-in-sql-server.aspx" \o "How we can implement Row lock explicitly in SQL Server?)**

Using **"With (ROWLOCK)"** we can implement Row Lock Explicitly. with this we prevent the command to lock the whole page or table.

**[What is the system table that holds the Store Procedure Script?](http://www.dotnetfunda.com/interview/exam1270-what-is-the-system-table-that-holds-the-store-procedure-script.aspx" \o "What is the system table that holds the Store Procedure Script?)**

**Sys.SQL\_Modules** table contains the script of the Store Procedure and **Sys.Procedures** contains the name of the store procedure.

**[What is the use of Set NOCOUNT ON;?](http://www.dotnetfunda.com/interview/exam1269-what-is-the-use-of-set-nocount-on.aspx" \o "What is the use of Set NOCOUNT ON;?)**

By Default When we execute any command it return us the number of record affected. if we don't want to return the number of records affected then we can use Set NOCOUNT ON;

**[How We can get the DB name using SQL Command?](http://www.dotnetfunda.com/interview/exam1268-how-we-can-get-the-db-name-using-sql-command.aspx" \o "How We can get the DB name using SQL Command?)**

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

Following is the Command to get the DB name using Command analyzer

SELECT DB\_NAME()

[How To Delete Description Value for a Column in Table using SQL Command?](http://www.dotnetfunda.com/interview/exam1264-how-to-delete-description-value-for-a-column-in-table-using-sql-comman.aspx" \o "How To Delete Description Value for a Column in Table using SQL Command?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

We can Delete Description from Column using sp\_dropextendedproperty System Store Procedure.   
  
Sample Command to Delete Description from Column in a Table:

EXEC sys.sp\_dropextendedproperty @name=N'MS\_Description', @value=N'My Description for Column Here' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'TABLE',@level1name=N'MyTableName', @level2type=N'COLUMN',@level2name=N'ColumnName'

[How To Update Description Value for a Column in Table using SQL Command?](http://www.dotnetfunda.com/interview/exam1263-how-to-update-description-value-for-a-column-in-table-using-sql-comman.aspx" \o "How To Update Description Value for a Column in Table using SQL Command?)

We can Update Description to Column using sp\_updateextendedproperty System Store Procedure.   
  
Sample Command to Update Description for Column in a Table:

EXEC sys.sp\_updateextendedproperty @name=N'MS\_Description', @value=N'My Description for Column Here' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'TABLE',@level1name=N'MyTableName', @level2type=N'COLUMN',@level2name=N'ColumnName'

Thanks & Regards   
Lakhan Pal Garg

[How To Get Description Value for Single Column in Table using SQL Command?](http://www.dotnetfunda.com/interview/exam1266-how-to-get-description-value-for-single-column-in-table-using-sql-comm.aspx" \o "How To Get Description Value for Single Column in Table using SQL Command?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

To Get Description of Single Column we need to use system function sys.fn\_listextendedproperty. we need to pass the column Name is this case.   
  
Command To Get Description Data for Single Columns:

SELECT \* FROM fn\_listextendedproperty(NULL, 'SCHEMA',

'dbo', 'TABLE', 'Table Name Here', 'COLUMN', 'Column Name Here')

[How we can Create a .SQL File for the Store Procedure in SQL Server 2005?](http://www.dotnetfunda.com/interview/exam1267-how-we-can-create-a-sql-file-for-the-store-procedure-in-sql-server-20.aspx" \o "How we can Create a .SQL File for the Store Procedure in SQL Server 2005?)

Using sqlcmd utility we can create a .sql file for the StoreProcedure.   
  
Sample Code To Create file:   
**Suppose the name of the procedure is: proc\_GetUserList\_sp   
DB UserName/Password: sa/sa   
Server name=MyServer   
Database Name: UserDB**   
  
Command From Above data is:

sqlcmd -U sa -P sa -S MyServer -d UserDB -Q "exec sp\_helptext proc\_GetUserList\_sp" -h-1 -k 1 >> c:\DB\proc\_GetUserList\_sp.sql

[How we can add Description to the Column using Sql Command?](http://www.dotnetfunda.com/interview/exam1262-how-we-can-add-description-to-the-column-using-sql-command.aspx" \o "How we can add Description to the Column using Sql Command?)

We can Add Description to Column using sp\_addextendedproperty System Store Procedure.   
  
Sample Command to Insert Description for Column in a Table:

EXEC sys.sp\_addextendedproperty @name=N'MS\_Description', @value=N'My Description for Column Here' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'TABLE',@level1name=N'MyTableName', @level2type=N'COLUMN',@level2name=N'ColumnName'

Thanks & Regards   
Lakhan Pal Garg

[I need to add one column in an existing table and the max value of the column can be 10, which data type i need to use for that?](http://www.dotnetfunda.com/interview/exam1109-i-need-to-add-one-column-in-a-existing-table-and-the-max-value-of-the.aspx" \o "I need to Add one column in a existing table and the max value of the column can be 10, which data type i need to use for that?)

1. Tinyinthttp://www.dotnetfunda.com/images/correct.gif
2. smallint
3. int
4. float

[What is the name of store procedure to send Email using SQL Server 2005/2008?](http://www.dotnetfunda.com/interview/exam1108-what-is-the-name-of-store-procedure-to-send-email-using-sql-server-200.aspx" \o "What is the name of store procedure to send Email using SQL Server 2005/2008?)

Sp\_send\_dbmail in msdb database can be used to send email using SQL Server 2005/2008

[How to get values of identitycolumn when you are not sure about the column name which is identity column?](http://www.dotnetfunda.com/interview/exam1003-how-to-get-values-of-identitycolumn-when-you-are-not-sure-about-the-co.aspx" \o "How to get values of identitycolumn when you are not sure about the column name which is identity column?)

SELECT *IDENTITYCOL* FROM **TableName**

[Query to display List of All Databases in SQL Server 2005/2008?](http://www.dotnetfunda.com/interview/exam1002-query-to-display-list-of-all-databases-in-sql-server-20052008.aspx" \o "Query to display List of All Databases in SQL Server 2005/2008?)

SELECT \* FROM Sys.Databases

[Query to Get List of Views?](http://www.dotnetfunda.com/interview/exam1000-query-to-get-list-of-views.aspx" \o "Query to Get List of Views?)

Select \* from information\_schema.view

[Query to Select n Random Records From a Table in the Database?](http://www.dotnetfunda.com/interview/exam999-query-to-select-n-rendom-records-from-a-table-in-the-database.aspx" \o "Query to Select n Rendom Records From a Table in the Database?)

SELECT TOP 3 \* FROM Tbl\_REGISTRATION ORDER by NEWID ()

[Query To Get The Column Name,DataType, And Length of columns in a Tables?](http://www.dotnetfunda.com/interview/exam998-query-to-get-the-column-namedatatype-and-length-of-columns-in-a-tabl.aspx" \o "Query To Get The Column Name,DataType, And Length of columns in a Tables?)

select column\_name, data\_type, character\_maximum\_length from information\_schema.columns   
where table\_name ={Table Name}

[How we can Get List of Triggers?](http://www.dotnetfunda.com/interview/exam997-how-we-can-get-list-of-triggers.aspx" \o "How we can Get List of Triggers?)

select \* from Sys.Objects where Type='tr'

[Query to Get List of Table Valued Functions?](http://www.dotnetfunda.com/interview/exam996-query-to-get-list-of-table-valued-functions.aspx" \o "Query to Get List of Table Valued Functions?)

select \* from Sys.Objects where Type='tf'

[How We Can Get List of Scalar Functions?](http://www.dotnetfunda.com/interview/exam995-how-we-can-get-list-of-scalar-functions.aspx" \o "How We Can Get List of Scalar Functions?)

select \* from Sys.Objects where Type='fn'

[How We can Get List of Store Procedures?](http://www.dotnetfunda.com/interview/exam994-how-we-can-get-list-of-store-procedures.aspx" \o "How We can Get List of Store Procedures?)

select \* from Sys.Objects where Type='p'

[How we can get the list of user tables?](http://www.dotnetfunda.com/interview/exam993-how-we-can-get-the-list-of-user-tables.aspx" \o "How we can get the list of user tables?)

select \* from Sys.Objects where Type='u'

[How we can get the List of System Tables in DataBase?](http://www.dotnetfunda.com/interview/exam992-how-we-can-get-the-list-of-system-tables-in-database.aspx" \o "How we can get the List of System Tables in DataBase?)

select \* from Sys.Objects where Type='s'

[How we can generate Random number in SQL Server?](http://www.dotnetfunda.com/interview/exam895-how-we-can-generate-random-number-in-sql-server.aspx" \o "How we can generate Random number in SQL Server?)

1. Select NEWID()http://www.dotnetfunda.com/images/correct.gif
2. SELECT RANDOM()
3. SELECT @@IDENTITY
4. SELECT SCOPE\_IDENTITY()

[How to Insert XML Data into Existing XML Node?](http://www.dotnetfunda.com/interview/exam859-how-to-insert-xml-data-into-existing-xml-node.aspx" \o "How to Insert XML Data into Existing XML Node?)

declare @xml xml   
set @xml = '<root/>'   
select @xml   
  
declare @value varchar(10)   
set @value = 'val1'   
set @xml.modify('insert <item value="{sql:variable("@value")}" /> into (/root)[1]')   
select @xml

[How we can Modify XMl Data in SQL Server 2005?](http://www.dotnetfunda.com/interview/exam858-how-we-can-modify-xml-data-in-sql-server-2005.aspx" \o "How we can Modify XMl Data in SQL Server 2005?)

Using modify method we cam modify the data in XML.   
  
set @value = 'val3'   
set @xml.modify('replace value of (/root/item/@value)[1] with sql:variable("@value")')   
select @xml

[Name the method used in SQL Server to Read XML Data?](http://www.dotnetfunda.com/interview/exam857-name-the-method-used-in-sql-server-to-read-xml-data.aspx" \o "Name the method used in SQL Server to Read XML Data?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

(1) OPENXML in SQL Server 2000   
  
For SQL Server 2005:   
(2) query()   
(3) value()   
(4) nodes()   
(5) exists()   
(6) Modify()

[are There any other Methods in SQL Server 2005 to Read XML Data?](http://www.dotnetfunda.com/interview/exam856-is-there-any-other-methods-in-sql-server-2005-to-read-xml-data.aspx" \o "Is There any other Methods in SQL Server 2005 to Read XML Data?)

 Yeshttp://www.dotnetfunda.com/images/correct.gif

 No

 May Be

[What type of language is the SELECT command in SQL Server?](http://www.dotnetfunda.com/interview/exam852-what-type-of-language-is-the-select-command-in-sql-server.aspx" \o "What type of language is the SELECT command in SQL Server?)

DML.   
  
The SELECT statement is a Data Manipulation Language commend, not a Data Definition Language command.

[Which of the following queries generates an error when executed? DECLARE @x VARCHAR(10), @y VARCHAR(10) SET @y = '' SELECT @x/0 -- query 1 SELECT @x/2 -- query 2 SELECT @y/0 -- query 3 SELECT @y/2 -- query 4](http://www.dotnetfunda.com/interview/exam794-which-of-the-following-queries-generates-an-error-when-executed-decl.aspx" \o "Which of the following queries generates an error when executed? DECLARE @x VARCHAR(10), @y VARCHAR(10) SET @y = '' SELECT @x/0 -- query 1 SELECT @x/2 -- query 2 SELECT @y/0 -- query 3 SELECT @y/2 -- query 4)

Answer: 3   
  
  
Explanation: Queries 1 and 2 returns NULL since @x is undefined. Query 4 returns 0 since the string '' is implicitly converted to 0. Query 3 returns a divide by 0 error.

[What is a table called, if it has no Cluster Index?](http://www.dotnetfunda.com/interview/exam710-what-is-a-table-called-if-it-has-no-cluster-index.aspx" \o "What is a table called, if it has no Cluster Index?)

Unindexed table or Heap.

[Can we use NEWID(), or RAND() in function?](http://www.dotnetfunda.com/interview/exam718-can-we-use-newid-or-rand-in-function.aspx" \o "Can we use NEWID(), or RAND() in function?)

No

[What is the difference between a Local and a Global temporary table?](http://www.dotnetfunda.com/interview/exam708-what-is-the-difference-between-a-local-and-a-global-temporary-table.aspx" \o "What is the difference between a Local and a Global temporary table?)

A local temporary table exists only for the duration of a connection or, if defined inside a compound statement, for the duration of the compound statement.   
  
Global temporary tables (created with a double “##”) are visible to all sessions. You should always check for existence of the global temporary table before creating it… if it already exists, then you will get a duplicate object error.   
  
Global temporary tables are dropped when the session that created it ends, and all other sessions have stopped referencing it.

[Can we use "Print" statement in function?](http://www.dotnetfunda.com/interview/exam719-can-we-use-print-statement-in-function.aspx" \o "Can we use \"Print\" statement in function?)

No

[Can we use Truncate command on a table which is referenced by FOREIGN KEY?](http://www.dotnetfunda.com/interview/exam713-can-we-use-truncate-command-on-a-table-which-is-referenced-by-foreign.aspx" \o "Can we use Truncate command on a table which is referenced by FOREIGN KEY?)

No. We cannot use Truncate command on a table with Foreign Key because of referential integrity.

[What command do we use to rename a db, a table and a column?](http://www.dotnetfunda.com/interview/exam711-what-command-do-we-use-to-rename-a-db-a-table-and-a-column.aspx" \o "What command do we use to rename a db, a table and a column?)

To rename db   
sp\_renamedb ‘oldname’ , ‘newname’   
  
To rename Table   
SP\_RENAME ‘oldTableName’, ‘NewTableName’   
  
To rename Column   
sp\_RENAME ‘Table\_First.Name’, ‘NameChange’ , ‘COLUMN’

[How to get @@ERROR and @@ROWCOUNT at the same time?](http://www.dotnetfunda.com/interview/exam709-how-to-get-error-and-rowcount-at-the-same-time.aspx" \o "How to get @@ERROR and @@ROWCOUNT at the same time?)

If @@Rowcount is checked after Error checking statement then it will have 0 as the value of @@Recordcount as it would have been reset. And if @@Recordcount is checked before the error-checking statement then @@Error would get reset. To get @@error and @@rowcount at the same time do both in same statement and store them in local variable. SELECT @RC = @@ROWCOUNT, @ER = @@ERROR

[What is Row\_Number()?](http://www.dotnetfunda.com/interview/exam707-what-is-rownumber.aspx" \o "What is Row_Number()?)

Posted by: [Virendradugar](http://www.dotnetfunda.com/profile/Virendradugar.aspx) | [Show/Hide Answer](javascript:void(0))

ROW\_NUMBER() returns a column as an expression that contain's the row number within the result set. This is only a number used in the context of the result set, if the result changes, the ROW\_NUMBER() will change.

[How to Get nth Record in a Table?](http://www.dotnetfunda.com/interview/exam684-how-to-get-nth-record-in-a-table.aspx" \o "How to Get nth Record in a Table?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

First Get the n records fron the table using   
  
Select Top n FROM UserTable   
Now Reverse the Order using identity Column like:   
Select Top n FROM UserTable Order By 1 DESC   
  
Now we need nth record that can be get as   
SELECT TOP 1 \* FROM (Select Top n FROM UserTable Order By 1 DESC)AC   
  
For Example i need to get 5th record From userTable then quey will be like this:

SELECT TOP 1 \* FROM (SELECT TOP 5 \* FROM UserTable Order By 1 DESC)AC

[How to get a row was inserted most recently in a table?](http://www.dotnetfunda.com/interview/exam683-how-to-get-a-row-was-inserted-most-recently-in-a-table.aspx" \o "How to get a row was inserted most recently in a table?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

select top 1 \* from tablename order by ColumnName desc

[All indexes will automatically get deleted(dropped) if the table is deleted?](http://www.dotnetfunda.com/interview/exam676-all-indexes-will-automatically-get-deleteddropped-if-the-table-is-de.aspx" \o "All indexes will automatically get deleted(dropped) if the table is deleted?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[You cannot create an Index on a column of the following data type](http://www.dotnetfunda.com/interview/exam675-you-cannot-create-an-index-on-a-column-of-the-following-data-type.aspx" \o "You cannot create an Index on a column of the following data type)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Is it possible to create Cluster Index on Unique Key Column?](http://www.dotnetfunda.com/interview/exam663-is-it-possible-to-create-cluster-index-on-unique-key-column.aspx" \o "Is it possible to create Cluster Index on Unique Key Column?)

Posted by: [Virendradugar](http://www.dotnetfunda.com/profile/Virendradugar.aspx) | [Show/Hide Answer](javascript:void(0))

Unique key column by default creates a non-cluster index on the column. Primary key creates cluster index on the column. The only difference is Unique key column allows only one null value. So is it possible to have cluster index on Unique key column?   
  
The answer is YES. Though Unique key allows null value but it still maintains the uniqueness of the column.

[SQL Server allows for only \_\_\_\_\_ levels of nesting in CASE expressions.](http://www.dotnetfunda.com/interview/exam659-sql-server-allows-for-only--levels-of-nesting-in-case-expressions.aspx" \o "SQL Server allows for only _____ levels of nesting in CASE expressions.)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Which of the following is a fixed length DataType?](http://www.dotnetfunda.com/interview/exam657-which-of-the-following-is-a-fixed-length-datatype.aspx" \o "Which of the following is a fixed length DataType?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Which Function is used to count more than two billion rows in a table?](http://www.dotnetfunda.com/interview/exam653-which-function-is-used-to-count-more-than-two-billion-rows-in-a-table.aspx" \o "Which Function is used to count more than two billion rows in a table?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[How do you determine the maximum nested-level of Stored Procedure ?](http://www.dotnetfunda.com/interview/exam648-how-do-you-determine-the-maximum-nestedlevel-of-stored-procedure-.aspx" \o "How do you determine the maximum nested-level of Stored Procedure ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

The current nested level can be determine by : @@NESTLEVEL, The maximum nested level is **32** .   
  
ie:   
**1. Creating stored procedure :**

CREATE PROC PROC\_SAMPLE1

AS

BEGIN

PRINT @@NESTLEVEL

EXEC PROC\_SAMPLE1

END

**2. Executing stored procedure :**

EXEC PROC\_SAMPLE1

**3. Result :**   
1   
2   
3   
..   
..   
32   
Msg 217, Level 16, State 1, Procedure PROC\_SAMPLE1, Line 5   
Maximum stored procedure, function, trigger, or view nesting level exceeded (**limit 32**).

[What is 'NEXT USED' in SQL Server ?](http://www.dotnetfunda.com/interview/exam646-what-is-next-used-in-sql-server-.aspx" \o "What is 'NEXT USED' in SQL Server ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

The filegroup will accept a new partition that is created by using an ALTER PARTITION FUNCTION statement.

[A table can have maximum of 1024 partitions.](http://www.dotnetfunda.com/interview/exam645-a-table-can-have-maximum-of-1024-partitions.aspx" \o "A table can have maximum of 1024 partitions.)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Which Statement describe the COALESCE ?](http://www.dotnetfunda.com/interview/exam639-which-statement-describe-the-coalesce-.aspx" \o "Which Statement describe the COALESCE ?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Which type of datatype is used to store IO Streams in Sql Server?](http://www.dotnetfunda.com/interview/exam638-which-type-of-datatype-is-used-to-store-io-streams-in-sql-server.aspx" \o "Which type of datatype is used to store IO Streams in Sql Server?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[What will be the output of the following code? Declare @Strings VARCHAR(20) Select @Strings ='Lakhan Pal Garg' Select SUBSTRING(@Strings,-9,16](http://www.dotnetfunda.com/interview/exam637-what-will-be-the-output-of-the-following-code-declare-strings-varch.aspx" \o "What will be the output of the following code? Declare @Strings VARCHAR(20) Select @Strings ='Lakhan Pal Garg' Select SUBSTRING(@Strings,-9,16)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Which is the best method to get the single value from Database?](http://www.dotnetfunda.com/interview/exam623-which-is-the-best-method-to-get-the-single-value-from-database.aspx" \o "Which is the best method to get the single value from Database?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Unique Key is smilar to Priamary Key,except it](http://www.dotnetfunda.com/interview/exam624-unique-key-is-smilar-to-priamary-keyexcept-it.aspx" \o "Unique Key is smilar to Priamary Key,except it)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Difference Between Truncate Table and Delete Table Command in SQL Server?](http://www.dotnetfunda.com/interview/exam620-difference-between-truncate-table-and-delete-table-command-in-sql-serv.aspx" \o "Difference Between Truncate Table and Delete Table Command in SQL Server?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

In case of Delete Statement Log is maintained. while in case of truncate command log is not maintained for each row, so we can't rollback the data in case of truncate table command.

[How Can we Write the Transaction Block in SQL Server?](http://www.dotnetfunda.com/interview/exam619-how-can-we-write-the-transaction-block-in-sql-server.aspx" \o "How Can we Write the Transaction Block in SQL Server?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

BEGIN TRANSACTION   
  
Statement 1   
Statement 2   
..................   
...............   
IF(@ERROR>0)   
ROLLBACK TRANSACTION   
ELSE   
COMMIT TRANSACTION

[How can we Rollback the Transaction in DataBase?](http://www.dotnetfunda.com/interview/exam618-how-can-we-rollback-the-transaction-in-database.aspx" \o "How can we Rollback the Transaction in DataBase?)

We can Rollback the Transaction using "ROLLBACK TRANSACTION" Command

[Will COUNT(column) include columns with null values in its count?](http://www.dotnetfunda.com/interview/exam614-will-countcolumn-include-columns-with-null-values-in-its-count.aspx" \o "Will COUNT(column) include columns with null values in its count?)

NOTE: This is objective type question, Please click question title for correct answer.

[What is the page size in SQL Server?](http://www.dotnetfunda.com/interview/exam613-what-is-the-page-size-in-sql-server.aspx" \o "What is the page size in SQL Server?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Can UNIQUE KEY in SQL Server 2005 have two or more NULL?](http://www.dotnetfunda.com/interview/exam612-can-unique-key-in-sql-server-2005-have-two-or-more-null.aspx" \o "Can UNIQUE KEY in SQL Server 2005 have two or more NULL?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[What’s the difference between a primary key and a unique key?](http://www.dotnetfunda.com/interview/exam611-whats-the-difference-between-a-primary-key-and-a-unique-key.aspx" \o "What’s the difference between a primary key and a unique key?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

Both primary key and unique enforce uniqueness of the column on which they are defined. But by default primary key creates a clustered index on the column, where are unique creates a nonclustered index by default. Another major difference is that, primary key doesn’t allow NULLs, but unique key allows one NULL only.

[The maximum number of columns a table can have in SQL Server?](http://www.dotnetfunda.com/interview/exam610-the-maximum-number-of-columns-a-table-can-have-in-sql-server.aspx" \o "The maximum number of columns a table can have in SQL Server?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Use of Bulk Copying ?](http://www.dotnetfunda.com/interview/exam603-use-of-bulk-copying-.aspx" \o "Use of Bulk Copying ?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

Bulk copying is used to transfer large amount of data.

[What are the disadvantages/limitation of the cursor?](http://www.dotnetfunda.com/interview/exam602-what-are-the-disadvantageslimitation-of-the-cursor.aspx" \o "What are the disadvantages/limitation of the cursor?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

Cursor requires a network roundtrip each time it fetches a record, thus consume network resources.   
While data processing, it issues locks on part of the table, or on the whole table.

[How to Get SQL Server Version ?](http://www.dotnetfunda.com/interview/exam601-how-to-get-sql-server-version-.aspx" \o "How to Get SQL Server Version ?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

**@@VERSION**

Returns the date, version, and processor type for the current installation of SQL Server.

The information returned by **@@VERSION**  is similar to the product name, version, platform, and file data returned by the xp\_msver stored procedure, which provides more detailed information.

SELECT **@@VERSION**

[What is the Max length of varchar variable in SQL Server?](http://www.dotnetfunda.com/interview/exam590-what-is-the-max-length-of-varchar-variable-in-sql-server.aspx" \o "What is the Max length of varchar variable in SQL Server?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[What id the Max Length of nVarchar in SQL Server?](http://www.dotnetfunda.com/interview/exam589-what-id-the-max-length-of-nvarchar-in-sql-server.aspx" \o "What id the Max Length of nVarchar in SQL Server?)

Posted by: [Lakhangarg](http://www.dotnetfunda.com/profile/Lakhangarg.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[What is Typed vs. Untyped XML in SQL Server ? Explain with an example](http://www.dotnetfunda.com/interview/exam583-what-is-typed-vs-untyped-xml-in-sql-server--explain-with-an-example.aspx" \o "What is Typed vs. Untyped XML in SQL Server ? Explain with an example)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

**Untyped XML** :   
I have created one Table named : *Table1*

CREATE TABLE TABLE2

(XMLSample XML)

GO

INSERT TABLE2 VALUES('TEST')

INSERT TABLE2 VALUES('123')

- The table should not allow any TYPE of data other than XML format with specific element. But it allows. This is called '**UnTyped XML** '.   
  
**Typed XML** :   
I create one Table with one column as XML datatype. It should allow only *INTEGER* type of data along with some specific XML Element. This is called '**Typed XML** '   
  
**1.** I have to define one XML SCHEMA ( Type of the XML Element and Name of the Element, Etc., )

CREATE XML SCHEMA COLLECTION PandianXMLSchema AS '

<schema xmlns="http://www.w3.org/2001/XMLSchema">

<element name="Dotnetfunda" type="int"/>

</schema>'

GO

I have created one XML SCHEMA named '**PandianXMLSchema** ' ( It will say what is the name of the '**Element** ' - and Type of the Element ).   
  
**2.** I create one Table with one column as XML datatype along with XML SCHEMA which we created above. It should allow only **INTEGER** type of data along with **Dotnetfunda** XML Element alone.

CREATE TABLE TABLE2

(XMLSample XML(PandianXMLSchema))

GO

**3.** Inserting data into the TABLE2

INSERT TABLE2 VALUES('TEST')

- It will throw an Err   
Msg 6909, Level 16, State 1, Line 1   
XML Validation: Text node is not allowed at this location, the type was defined with element only content or with simple content. Location: /   
  
Because, the data '**TEST**' is not an **INTEGER** and Its not encloused with '**Dotnetfunda** ' element.

INSERT TABLE2 VALUES('123')

- It will throw an Err   
Msg 6909, Level 16, State 1, Line 1   
XML Validation: Text node is not allowed at this location, the type was defined with element only content or with simple content. Location: /   
  
Because, the data '**123**' is an **INTEGER**. But Its not encloused with '**Dotnetfunda** ' element.

INSERT TABLE2 VALUES('<Dotnetfunda>TEST</Dotnetfunda>')

- It will also throw an Err

Msg 6926, Level 16, State 1, Line 1

XML Validation: Invalid simple type value: 'TEST'. Location: /\*:Dotnetfunda[1]

The data 'TEST' encloused with proper element, But Its not an **INTEGER** type.

INSERT TABLE2 VALUES('<Dotnetfunda>123</Dotnetfunda>')

(1 row(s) affected)   
  
**XMLSample**   
<Dotnetfunda>123</Dotnetfunda>   
  
Cheers

[DEFAULT definitions cannot be created on columns defined with the following DATA TYPE ?](http://www.dotnetfunda.com/interview/exam582-default-definitions-cannot-be-created-on-columns-defined-with-the-foll.aspx" \o "DEFAULT definitions cannot be created on columns defined with the following DATA TYPE ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[To modify a DEFAULT definition, We must first DELETE the existing DEFAULT definition and then Re-CREATE it with the new definition.](http://www.dotnetfunda.com/interview/exam581-to-modify-a-default-definition-we-must-first-delete-the-existing-defa.aspx" \o "To modify a DEFAULT definition, We must first DELETE the existing DEFAULT definition and then Re-CREATE it with the new definition.)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

True

[What is 'Self-referencing' tables in SQL Server ?](http://www.dotnetfunda.com/interview/exam580-what-is-selfreferencing-tables-in-sql-server-.aspx" \o "What is 'Self-referencing' tables in SQL Server ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

A FOREIGN KEY constraint can reference columns within the same table (a table itself).

[Number of PRIMARY KEY/FOREIGN KEY Constraints in a Table in SQL Server 2005/2008 ?](http://www.dotnetfunda.com/interview/exam579-number-of-primary-keyforeign-key-constraints-in-a-table-in-sql-server.aspx" \o "Number of PRIMARY KEY/FOREIGN KEY Constraints in a Table in SQL Server 2005/2008 ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[How do you Copy Databases to SQL SERVER 2005 from various versions (6.0/6.5/7.0/2000) ?](http://www.dotnetfunda.com/interview/exam578-how-do-you-copy-databases-to-sql-server-2005-from-various-versions-6.aspx" \o "How do you Copy Databases to SQL SERVER 2005 from various versions (6.0/6.5/7.0/2000) ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

In SQL Server 2005, we can create a new database by restoring a database backup taken using SQL Server 7.0, 2000 or 2005.   
  
SQL Server 6.5 or earlier are cannot be restored in SQL Server 2005.   
  
But, backups of master, model and msdb that were created by using SQL Server 7.0 or 2000 cannot be restored to SQL Server 2005.   
  
SQL Server 7.0 log backups that contain create-index operations cannot be restored to SQL Server 2000 or 2005.   
  
SQL Server 2005 uses a different default path than earlier versions. To restore a database created in the default location of either SQL Server 7.0 or 2000 from backups, we must use the MOVE option.   
  
When we install SQL Server 2005, any existing databases (SQL Server 7 or 2000) are automatically upgraded. If a database that was created by using SQL Server 6.5 or earlier has not been upgraded to SQL Server 2005, we have to convert it to SQL Server 2005 by using one of the following methods:   
  
**1.** Use the Integration Services (SSIS) Import and Export Wizard.   
**2.** Export the data into a data file using "**BCP out**" in Character mode and import the data into a SQL Server 2005 database using "**BCP in**" with the "**-V**".

[What is write-ahead log ?](http://www.dotnetfunda.com/interview/exam577-what-is-writeahead-log-.aspx" \o "What is write-ahead log ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

A transaction logging method in which the log is always written prior to the data.

[What is Roll forward ?](http://www.dotnetfunda.com/interview/exam576-what-is-roll-forward-.aspx" \o "What is Roll forward ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

To apply logged changes to the data in a roll forward set to bring the data forward in time.

[What is Query binding ?](http://www.dotnetfunda.com/interview/exam575-what-is-query-binding-.aspx" \o "What is Query binding ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

The binding of an object to a query.

[What is point-in-time recovery ?](http://www.dotnetfunda.com/interview/exam574-what-is-pointintime-recovery-.aspx" \o "What is point-in-time recovery ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

The process of recovering only the transactions within a log backup that were committed before a specific point in time, instead of recovering the whole backup.

[What is noise word ?](http://www.dotnetfunda.com/interview/exam573-what-is-noise-word-.aspx" \o "What is noise word ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

Words that do not participate in a full-text query search, such as &quot;a&quot;, &quot;and&quot;, and &quot;the&quot;.

[What is Lock escalation ?](http://www.dotnetfunda.com/interview/exam572-what-is-lock-escalation-.aspx" \o "What is Lock escalation ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

The process of converting many fine-grain locks into fewer coarse-grain locks.   
ie:   
fine-grain = ROW   
coarse-grain = TABLE

[What is Fragmentation ?](http://www.dotnetfunda.com/interview/exam571-what-is-fragmentation-.aspx" \o "What is Fragmentation ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

A difference between the **physical** and **logical** ordering of index data that can occur when data modifications are made. We can reduce fragmentation and improve read-ahead performance by dropping and re-creating a clustered index (or) DBCC DBREINDEX.

[What is ETL ?](http://www.dotnetfunda.com/interview/exam570-what-is-etl-.aspx" \o "What is ETL ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

**E**xtraction, **T**ransformation, and **L**oading.   
The complex process of copying and cleaning data from heterogeneous sources. Important part of development projects for data warehousing and business intelligence(**BI**).

[What is DRI ?](http://www.dotnetfunda.com/interview/exam569-what-is-dri-.aspx" \o "What is DRI ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

**D**eclarative **R**eferential **I**ntegrity :   
The DRI actions enforced by FOREIGN KEY constraints can be supplemented with additional referential integrity logic defined in triggers on a table.

[What is Dirty pages ?](http://www.dotnetfunda.com/interview/exam568-what-is-dirty-pages-.aspx" \o "What is Dirty pages ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

Buffer pages that contain modifications that have not been written to disk.

[What is Deferred transaction ?](http://www.dotnetfunda.com/interview/exam567-what-is-deferred-transaction-.aspx" \o "What is Deferred transaction ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

A transaction that is not committed when the roll forward phase of recovery finishes, and that cannot be rolled back during database startup because the data required by rollback is offline. This data can reside in either a page or a file.

[What is Database snapshot ?](http://www.dotnetfunda.com/interview/exam566-what-is-database-snapshot-.aspx" \o "What is Database snapshot ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

A read-only, static view of a database at the moment of snapshot creation.

[What is Two-Phase Commit ?](http://www.dotnetfunda.com/interview/exam565-what-is-twophase-commit-.aspx" \o "What is Two-Phase Commit ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

Two-phased commits are the way to keep multiple servers synchronized.   
(Replication also can achieve this)   
Two-phased commits are considered to be “Tight Consistency.”   
In SQL Server 6.0, We must use the API functions and write some fairly advanced code.   
In SQL Server 6.5, The DTC (Distributed Transaction Coordinator) makes the two-phase commit easy to implement.

[Default security model in Microsoft SQL Server ?](http://www.dotnetfunda.com/interview/exam563-default-security-model-in-microsoft-sql-server-.aspx" \o "Default security model in Microsoft SQL Server ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Microsoft SQL Server's default protocol ?](http://www.dotnetfunda.com/interview/exam564-microsoft-sql-servers-default-protocol-.aspx" \o "Microsoft SQL Server's default protocol ?)

Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

|  |
| --- |
| [Root Cause for Increasing the Transaction Log.](http://www.dotnetfunda.com/interview/exam559-root-cause-for-increasing-the-transaction-log.aspx" \o "Root Cause for Increasing the Transaction Log.)  Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))  **1.**Uncommitted Transactions.  **2.**Extremely Large Transactions.  **3.**Operations : DBCC DBREINDEX / CREATE INDEX.  **4.**Client Applications do not process all results.  **5.**While Restoring from Transaction Log Backups.  **6.**Queries Time-Out before a transaction log completes the expansion and you receive false 'Log Full' error message. |
| [A fill factor of 0% and 100% means the same thing to SQL Server](http://www.dotnetfunda.com/interview/exam558-a-fill-factor-of-0-and-100-means-the-same-thing-to-sql-server.aspx" \o "A fill factor of 0% and 100% means the same thing to SQL Server)  Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))  NOTE: This is objective type question, Please click question title for correct answer. |
| [How many database(s) can have in an instance of SQL Server 2005 ?](http://www.dotnetfunda.com/interview/exam557-how-many-databases-can-have-in-an-instance-of-sql-server-2005-.aspx" \o "How many database(s) can have in an instance of SQL Server 2005 ?)  Posted by: [Pandians](http://www.dotnetfunda.com/profile/Pandians.aspx) | [Show/Hide Answer](javascript:void(0))  NOTE: This is objective type question, Please click question title for correct answer. |
| [What are the restrictions of using Subquery in SQL Server?](http://www.dotnetfunda.com/interview/exam556-what-are-the-restrictions-of-using-subquery-in-sql-server.aspx" \o "What are the restrictions of using Subquery in SQL Server?)  Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))  Subquery can be used where an expression is possible. There are certain limitation of using Subquery, they are   A subquery is subject to the following restrictions:   #. The select list of a subquery introduced with a comparison operator can include only one expression or column name (except that EXISTS and IN operate on SELECT \* or a list, respectively).   #. If the WHERE clause of an outer query includes a column name, it must be join-compatible with the column in the subquery select list.   **#. The ntext, text, and image data types cannot be used in the select list of subqueries.**   #. Because they must return a single value, subqueries introduced by an unmodified comparison operator (one not followed by the keyword ANY or ALL) cannot include GROUP BY and HAVING clauses.   #. The DISTINCT keyword cannot be used with subqueries that include GROUP BY.   #. The COMPUTE and INTO clauses cannot be specified.   #. ORDER BY can only be specified when TOP is also specified.   #. A view created by using a subquery cannot be updated. |
| [What is Subquery in SQL Server?](http://www.dotnetfunda.com/interview/exam555-what-is-subquery-in-sql-server.aspx" \o "What is Subquery in SQL Server?)  Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))  A subquery is a query that is nested inside a SELECT, INSERT, UPDATE, or DELETE statement, or inside another subquery. Subquery is an inner query or inner select, while the statement containing a subquery is also called an outer query or outer select.   For example  SELECT CustName, CustOrderDate, (SELECT DateTimeOrdered FROM OrderDetails as ODetails WHERE Ord.SalesOrderID = ODetails.SalesOrderID) AS OrderedDateTime FROM Orders AS Ord |
| [What is Distributed Queries in SQL Server?](http://www.dotnetfunda.com/interview/exam553-what-is-distributed-queries-in-sql-server.aspx" \o "What is Distributed Queries in SQL Server?)  Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))  Distributed queries access data from multiple heterogeneous data sources. These data sources can be stored on either the same or different computers. Microsoft SQL Server supports distributed queries by using OLE DB.   SQL Server users can use distributed queries to access the following:   #. Distributed data stored in multiple instances of SQL Server.  #. Heterogeneous data stored in various relational and nonrelational data sources accessed by using an OLE DB provider.   For more details visit <http://msdn.microsoft.com/en-us/library/ms188721.aspx>   Thanks |
| [What is the use of Keyword WITH ENCRYPTION keyword in SQL Server?](http://www.dotnetfunda.com/interview/exam552-what-is-the-use-of-keyword-with-encryption-keyword-in-sql-server.aspx" \o "What is the use of Keyword WITH ENCRYPTION keyword in SQL Server?)  Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))  WITH ENCRYPTION keyword is used to encrypt the text of the Stored Procedure.   Once SPs are encrypted, the original text of the SP are not visible. User who has created the SP will need to save the text to be used to create SP somewhere safe to reuse it again or Users that have access to system tables or database files can retrieve the encrypted text. |
| [What is user-defined functions in SQL Server?](http://www.dotnetfunda.com/interview/exam551-what-is-userdefined-functions-in-sql-server.aspx" \o "What is user-defined functions in SQL Server?)  Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))  User-Defined Functions allows to define custom T-SQL functions that can accept zero or more parameters and return a single scalar data value or a table data type.   In terms of functionality it is similar to C# or VB.NET functions except the fact that code is written in T-SQL :)   For more visit <http://www.sqlteam.com/article/user-defined-functions>   Thanks |
| [What is user-defined data type in SQL Server?](http://www.dotnetfunda.com/interview/exam550-what-is-userdefined-data-type-in-sql-server.aspx" \o "What is user-defined data type in SQL Server?)  Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))  User-defined data types can be used when several tables must store the same type of data in a column and you must ensure that these columns have exactly the same data type, length, and nullability.   For more details, visit [http://msdn.microsoft.com/en-us/library/aa933121(SQL.80).aspx](http://msdn.microsoft.com/en-us/library/aa933121%28SQL.80%29.aspx)   Thanks |
| [What is the use of bit data type and what kind of data is stored into it?](http://www.dotnetfunda.com/interview/exam549-what-is-the-use-of-bit-data-type-and-what-kind-of-data-is-stored-into.aspx" \o "What is the use of bit data type and what kind of data is stored into it?)  Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))  Bit datatype is used to store boolean information like 1 or 0 where 1 is considered as true and 0 is considered as false.   While querying the database we need to use 1 or 0 in the select statement to filter out the data instead of true and false. |
| [What is blocking in SQL Server?](http://www.dotnetfunda.com/interview/exam548-what-is-blocking-in-sql-server.aspx" \o "What is blocking in SQL Server?)  Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))  Blocking in SQL Server is a scenario where one connection to SQL Server locks one or more records, and a second connection to SQL Server requires a conflicting lock type on the record or records locked by the first connection. This causes the second connection to wait until the first connection releases its locks. By default, a connection will wait an unlimited amount of time for the blocking lock to go away.   Blocking is not the same thing as a deadlock. For more details on SQL Server blocking visit this nice article  <http://www.sql-server-performance.com/tips/blocking_p1.aspx> |
| [Difference between varchar and char:](http://www.dotnetfunda.com/interview/exam521-difference-between-varchar-and-char.aspx" \o "Difference between varchar and char:)  Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))  **varchar** are variable length strings with a maximum length specified. If a string is less than the maximum length, then it is stored verbatim without any extra characters.  **char** are fixed length strings with a set length specified. If a string is less than the set length, then it is padded with extra characters so that it's length is the set length.   Use **varchar** when your strings do not have a fixed length (e.g. names, cities, etc.)   Use **char** when your strings are always going to be the same length (e.g. phone numbers, zip codes, etc). |

[Can we create a Foreign Key with out Primary Key?](http://www.dotnetfunda.com/interview/exam510-can-we-create-a-foreign-key-with-out-primary-key.aspx" \o "Can we create a Foreign Key with out Primary Key?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

**Yes. If the table has Unique Key then it is posible to create a Foreign key constraint**

[What is Check Constraint?](http://www.dotnetfunda.com/interview/exam509-what-is-check-constraint.aspx" \o "What is Check Constraint?)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

**Check constraint specifies a condition that is enforced for each row of the table on which the constraint is defined. Once constraint is defined, insert or update to the data within the tables is checked against the defined constraint.**

[How to get GUID in sql server?](http://www.dotnetfunda.com/interview/exam508-how-to-get-guid-in-sql-server.aspx" \o "How to get GUID in sql server?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

select newid().   
This will return you GUID

[What is DTC?](http://www.dotnetfunda.com/interview/exam463-what-is-dtc.aspx" \o "What is DTC?)

Posted by: [BABU\_AKKANDI](http://www.dotnetfunda.com/profile/BABU_AKKANDI.aspx) | [Show/Hide Answer](javascript:void(0))

The Microsoft Distributed Transaction Coordinator (MS DTC) is a transaction manager that allows client applications to include several different sources of data in one transaction. MS DTC coordinates committing the distributed transaction across all the servers enlisted in the transaction

[What are three SQL keywords used to change or set someone’s permissions?](http://www.dotnetfunda.com/interview/exam462-what-are-three-sql-keywords-used-to-change-or-set-someones-permission.aspx" \o "What are three SQL keywords used to change or set someone’s permissions?)

Posted by: [BABU\_AKKANDI](http://www.dotnetfunda.com/profile/BABU_AKKANDI.aspx) | [Show/Hide Answer](javascript:void(0))

Grant, Deny and Revoke

[What is RAID and what are different types of RAID configurations?](http://www.dotnetfunda.com/interview/exam461-what-is-raid-and-what-are-different-types-of-raid-configurations.aspx" \o "What is RAID and what are different types of RAID configurations?)

Posted by: [BABU\_AKKANDI](http://www.dotnetfunda.com/profile/BABU_AKKANDI.aspx) | [Show/Hide Answer](javascript:void(0))

RAID stands for Redundant Array of Inexpensive Disks, used to provide fault tolerance to database servers. There are six RAID levels 0 through 5 offering different levels of performance, fault tolerance

[What is the purpose of UPDATE STATISTICS?](http://www.dotnetfunda.com/interview/exam460-what-is-the-purpose-of-update-statistics.aspx" \o "What is the purpose of UPDATE STATISTICS?)

Posted by: [BABU\_AKKANDI](http://www.dotnetfunda.com/profile/BABU_AKKANDI.aspx) | [Show/Hide Answer](javascript:void(0))

Updates information about the distribution of key values for one or more statistics groups (collections) in the specified table or indexed view.

[What is a tuple?](http://www.dotnetfunda.com/interview/exam459-what-is-a-tuple.aspx" \o "What is a tuple?)

Posted by: [BABU\_AKKANDI](http://www.dotnetfunda.com/profile/BABU_AKKANDI.aspx) | [Show/Hide Answer](javascript:void(0))

A tuple is an instance of data within a relational database.

[What are sequence diagrams? What you will get out of this sequence diagrams?](http://www.dotnetfunda.com/interview/exam458-what-are-sequence-diagrams-what-you-will-get-out-of-this-sequence-dia.aspx" \o "What are sequence diagrams? What you will get out of this sequence diagrams?)

Posted by: [BABU\_AKKANDI](http://www.dotnetfunda.com/profile/BABU_AKKANDI.aspx) | [Show/Hide Answer](javascript:void(0))

Sequence diagrams document the interactions between classes to achieve a result, such as a use case. Because UML is designed for object-oriented programming, these communications between classes are known as messages. The sequence diagram lists objects horizontally, and time vertically, and models these messages over time.

[What is Log Shipping?](http://www.dotnetfunda.com/interview/exam457-what-is-log-shipping.aspx" \o "What is Log Shipping?)

Posted by: [BABU\_AKKANDI](http://www.dotnetfunda.com/profile/BABU_AKKANDI.aspx) | [Show/Hide Answer](javascript:void(0))

In Microsoft SQL Server, you can use log shipping to feed transaction logs from one database to another on a constant basis. Continually backing up the transaction logs from a source database and then copying and restoring the logs to a destination database keeps the destination database synchronized with the source database. This allows you to have a backup server and also provides a way to offload query processing from the main computer (the source server) to read-only destination servers.

[What Is DTS?](http://www.dotnetfunda.com/interview/exam451-what-is-dts.aspx" \o "What Is DTS?)

Posted by: [Sudhak](http://www.dotnetfunda.com/profile/Sudhak.aspx) | [Show/Hide Answer](javascript:void(0))

DTS is a set of tools you can use to import, export, and transform heterogeneous data between one or more data sources, such as Microsoft SQL Server, Microsoft Excel, or Microsoft Access. Connectivity is provided through OLE DB, an open-standard for data access. ODBC (Open Database Connectivity) data sources are supported through the OLE DB Provider for ODBC.

[what is ACID?](http://www.dotnetfunda.com/interview/exam450-what-is-acid.aspx" \o "what is ACID?)

Posted by: [Sudhak](http://www.dotnetfunda.com/profile/Sudhak.aspx) | [Show/Hide Answer](javascript:void(0))

ACID (an acronymn for Atomicity Consistency Isolation Durability) is a concept that Database Professionals generally look for when evaluating databases and application architectures. For a reliable database all this four attributes should be achieved.   
  
Atomicity is an all-or-none proposition.   
  
Consistency guarantees that a transaction never leaves your database in a half-finished state.   
  
Isolation keeps transactions separated from each other until they’re finished.   
  
Durability guarantees that the database will keep track of pending changes in such a way that the server can recover from an abnormal termination.   
  
Above four rules are very important for any developers dealing with databases

[What is a deadlock?](http://www.dotnetfunda.com/interview/exam449-what-is-a-deadlock.aspx" \o "What is a deadlock?)

Posted by: [Sudhak](http://www.dotnetfunda.com/profile/Sudhak.aspx) | [Show/Hide Answer](javascript:void(0))

Deadlock is a situation when two processes, each having a lock on one piece of data, attempt to acquire a lock on the other’s piece. Each process would wait indefinitely for the other to release the lock, unless one of the user processes is terminated.   
SQL Server detects deadlocks and terminates one user’s process

[Where do you think the users names and passwords will be stored in sql server?](http://www.dotnetfunda.com/interview/exam432-where-do-you-think-the-users-names-and-passwords-will-be-stored-in-sql.aspx" \o "Where do you think the users names and passwords will be stored in sql server?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

They get stored in master db in the sysxlogins table.

[What is log shipping?](http://www.dotnetfunda.com/interview/exam431-what-is-log-shipping.aspx" \o "What is log shipping?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

Logshipping is a new feature of SQL Server 2000. We should have two SQL Server - Enterprise Editions. From Enterprise Manager we can configure the logshipping. In logshipping the transactional log file from one server is automatically updated into the backup database on the other server. If one server fails, the other server will have the same db and we can use this as the DR (disaster recovery) plan.

[What are the OS services that the SQL Server installation adds?](http://www.dotnetfunda.com/interview/exam430-what-are-the-os-services-that-the-sql-server-installation-adds.aspx" \o "What are the OS services that the SQL Server installation adds?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

MS SQL SERVER SERVICE, SQL AGENT SERVICE, DTC (Distribution transac co-ordinator)

[What do you mean by COLLATION?](http://www.dotnetfunda.com/interview/exam429-what-do-you-mean-by-collation.aspx" \o "What do you mean by COLLATION?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

Collation is basically the sort order. There are three types of sort order Dictionary case sensitive, Dictonary - case insensitive and Binary.

[What command do we use to rename a db?](http://www.dotnetfunda.com/interview/exam428-what-command-do-we-use-to-rename-a-db.aspx" \o "What command do we use to rename a db?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

sp\_renamedb ‘oldname’ , ‘newname’

[What is an Index?](http://www.dotnetfunda.com/interview/exam427-what-is-an-index.aspx" \o "What is an Index?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

When queries are run against a db, an index on that db basically helps in the way the data is sorted to process the query for faster and data retrievals are much faster when we have an index.

[What is a Stored Procedure?](http://www.dotnetfunda.com/interview/exam426-what-is-a-stored-procedure.aspx" \o "What is a Stored Procedure?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

Its nothing but a set of T-SQL statements combined to perform a single task of several tasks. Its basically like a Macro so when you invoke the Stored procedure, you actually run a set of statements.

[What is the maximum limit for Primary Key?](http://www.dotnetfunda.com/interview/exam418-what-is-the-maximum-limit-for-primary-key.aspx" \o "What is the maximum limit for Primary Key?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

10 fields in MS Acces   
900 Bytes in SQL Server

[What is the use of @@TRANCOUNT in SQL Server?](http://www.dotnetfunda.com/interview/exam413-what-is-the-use-of-trancount-in-sql-server.aspx" \o "What is the use of @@TRANCOUNT in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

Returns the number of active transactions for the current connection.

PRINT @@TRANCOUNT

-- The BEGIN TRAN statement will increment the transaction count by 1.

BEGIN TRAN

PRINT @@TRANCOUNT

-- The COMMIT statement will decrement the transaction count by 1.

COMMIT

PRINT @@TRANCOUNT

--Results

--0

--1

--0

[how you can rename a database ?](http://www.dotnetfunda.com/interview/exam407-how-you-can-rename-a-database-.aspx" \o "how you can rename a database ?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

o rename a database first get the database into Single user mode . by using the query below ( run these query in query analyzer)   
  
ALTER DATABASE DBMydb SET SINGLE\_USER WITH ROLLBACK IMMEDIATE   
  
then rename the database using sp\_rename   
  
sp\_renamedb 'DBMydb', 'DBmydb\_new'   
  
then change the access mode of the database to multiuser   
  
ALTER DATABASE DBmydb\_new SET MULTI\_USER

[What are the extensions of these three type of file in above question.](http://www.dotnetfunda.com/interview/exam406-what-are-the-extensions-of-these-three-type-of-file-in-above-question.aspx" \o "What are the extensions of these three type of file in above question.)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

Primary data files --->> .mdf.   
Secondary data files --->> .ndf.   
log files --->> .ldf

[how many database can be created on MSSQL Server 2000](http://www.dotnetfunda.com/interview/exam405-how-many-database-can-be-created-on-mssql-server-2000.aspx" \o "how many database can be created on MSSQL Server 2000)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[What is the maximum size of an SQL Server 2000 Database?](http://www.dotnetfunda.com/interview/exam404-what-is-the-maximum-size-of-an-sql-server-2000-database.aspx" \o "What is the maximum size of an SQL Server 2000 Database?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

The maximum size for SQL Server 2000 databases is 1,048,516 TB. Each database can contain up to 32,767 files, and the maximum size of each file is 32TB

[How you can get the last identity value inserted in any table ?](http://www.dotnetfunda.com/interview/exam403-how-you-can-get-the-last-identity-value-inserted-in-any-table-.aspx" \o "How you can get the last identity value inserted in any table ?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

SQL Server 2000 has a System Variable @@IDENTITY which gives the last identity element value inserted in any table

[What are the limits of Sql Server 2000?](http://www.dotnetfunda.com/interview/exam402-what-are-the-limits-of-sql-server-2000.aspx" \o "What are the limits of Sql Server 2000?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

When you are creating or changing a stored procedure,please keep in mind that   
The name of the procedure is a standard Transact-SQL identifier. The maximum length of any identifier is 128 characters.   
Stored procedures may contain up to 1,024 input and output parameters.   
The body of the stored procedure consists of one or more   
Transact-SQL statements. The maximum size of the body of the stored procedure is 128MB.

[What is the Maximum number of input and output parameters in Stored procedure in SQL Server 2000 ?](http://www.dotnetfunda.com/interview/exam401-what-is-the-maximum-number-of-input-and-output-parameters-in-stored-pr.aspx" \o "What is the Maximum number of input and output parameters in Stored procedure in SQL Server 2000 ?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

1024

[What is DESCRIBE command in SQL Server 2005? What is its purpose? How to use it?](http://www.dotnetfunda.com/interview/exam373-what-is-describe-command-in-sql-server-2005-what-is-its-purpose-how.aspx" \o "What is DESCRIBE command in SQL Server 2005? What is its purpose? How to use it?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

DESCRIBE is used to see table structure. In SQL server 2005 we can use sp\_columns, sp\_tables or sp\_help.   
  
sp\_columns   
will show list of columns and its details in table.   
sp\_tables will show list of tables in the database

[How do you optimize stored procedures in SQL Server 2005](http://www.dotnetfunda.com/interview/exam372-how-do-you-optimize-stored-procedures-in-sql-server-2005.aspx" \o "How do you optimize stored procedures in SQL Server 2005)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

1. Use as much as possible WHERE clause filters. Where Clause is the most important part for optimization   
2. Select only those fields which really require.   
3. Joins are expensive in terms of time. Make sure that use all the keys that relate the two tables together and don't join to unused tables, always try to join on indexed fields. The join type is important as well (INNER, OUTER).

[What are the properties of the Relational tables?](http://www.dotnetfunda.com/interview/exam371-what-are-the-properties-of-the-relational-tables.aspx" \o "What are the properties of the Relational tables?)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

Relational tables have six properties   
1. Values are atomic.   
2. Column values are of the same kind.   
3. Each row is unique.   
4. The sequence of columns is insignificant.   
5. The sequence of rows is insignificant.   
6. Each column must have a unique name.   
  
  
**Values Are Atomic**   
Columns in a relational table are not repeating group or arrays. Such tables are referred to as being in the "first normal form" (1NF). The atomic value property of relational tables is important because it is one of the cornerstones of the relational model.   
The key benefit of the one value property is that it simplifies data manipulation logic.   
  
  
**Column Values Are of the Same Kind**   
All values in a column come from the same set of values or domain. For example, a Product\_Price column contains only specific to product price. It never contains other information such as comments, status flags, or even weekly salary.   
It simplifies data access because developers and users can be certain of the type of data contained in a given column. It also simplifies data validation. Because all values are from the same domain, the domain can be defined and enforced with the Data Definition Language (DDL) of the database software.   
  
  
**Each Row is Unique**   
Each unique row ensures that no two rows in a relational table are identical; there is at least one column, or set of columns, the values of which uniquely identify each row in the table. Such columns are called primary keys.   
This property guarantees that every row in a relational table is meaningful and that a specific row can be identified by specifying the primary key value.   
  
  
**The Sequence of Columns is Insignificant**   
Ordering of the columns in the relational table has no meaning. Columns can be retrieved in any order and in various sequences. The benefit of this property is that it enables many users to share the same table without concern of how the table is organized. It also permits the physical structure of the database to change without affecting the relational tables.   
  
  
**The Sequence of Rows is Insignificant**   
This property is analogous the one above but applies to rows instead of columns. The main benefit is that the rows of a relational table can be retrieved in different order and sequences. Adding information to a relational table is simplified and does not affect existing queries.   
  
  
**Each Column Has a Unique Name**   
Because the sequence of columns is insignificant, columns must be referenced by name and not by position. In general, a column name need not be unique within an entire database but only within the table to which it belongs.

[An automatic commit ocurrs under the following circumstances](http://www.dotnetfunda.com/interview/exam361-an-automatic-commit-ocurrs-under-the-following-circumstances.aspx" \o "An automatic commit ocurrs under the following circumstances)

Posted by: [Syedshakeer](http://www.dotnetfunda.com/profile/Syedshakeer.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[Some more differences related to Truncate and Delete](http://www.dotnetfunda.com/interview/exam353-some-more-differences-related-to-truncate-and-delete.aspx" \o "Some more differences related to Truncate and Delete)

Posted by: [Neeks](http://www.dotnetfunda.com/profile/Neeks.aspx) | [Show/Hide Answer](javascript:void(0))

1) Delete keep the lock over each row where Truncate keps the lock on table not on all the row   
  
2) Counter of the Identity column is reset in Truncate where it is not reset in Delete.   
  
3) Trigger is not fired in Truncate where as trigger is fired in Delete.

[What is the difference between DELETE and TRUNCATE?](http://www.dotnetfunda.com/interview/exam349-what-is-the-difference-between-delete-and-truncate.aspx" \o "What is the difference between DELETE and TRUNCATE?)

Posted by: [Deepak](http://www.dotnetfunda.com/profile/Deepak.aspx) | [Show/Hide Answer](javascript:void(0))

In TRUNCATE we can not rollback..   
In DELETE we can rollback

[What are the types of triggers and how the sequence of firing in text item?](http://www.dotnetfunda.com/interview/exam336-what-are-the-types-of-triggers-and-how-the-sequence-of-firing-in-text.aspx" \o "What are the types of triggers and how the sequence of firing in text item?)

Posted by: [Charugoel](http://www.dotnetfunda.com/profile/Charugoel.aspx) | [Show/Hide Answer](javascript:void(0))

Triggers can be classified as Key Triggers, Mouse Triggers ,Navigational Triggers.   
Key Triggers :: Key Triggers are fired as a result of Key action.e.g :: Key-next-field, Key-up,Key-Down   
Mouse Triggers :: Mouse Triggers are fired as a result of the mouse navigation.e.g. When-mouse-button-presed,when-mouse-doubleclicked,etc   
Navigational Triggers :: These Triggers are fired as a result of Navigation. E.g : Post-Text-item,Pre-text-item.   
We also have event triggers like when ?Vnew-form-instance and when-new-block-instance.   
We cannot call restricted procedures like go\_to(??my\_block.first\_item??) in the Navigational triggers   
But can use them in the Key-next-item.   
The Difference between Key-next and Post-Text is an very important question. The key-next is fired as a result of the key action while the post text is fired as a result of the mouse movement. Key next will not fire unless there is a key event.   
The sequence of firing in a text item are as follows ::   
a) pre - text   
b) when new item   
c) key-next   
d) when validate   
e) post text

[which Caluse returns only one copy of each set of duplicate rows selected](http://www.dotnetfunda.com/interview/exam319-which-caluse-returns-only-one-copy-of-each-set-of-duplicate-rows-selec.aspx" \o "which Caluse returns only one copy of each set of duplicate rows selected)

Posted by: [Vijay20delhi](http://www.dotnetfunda.com/profile/Vijay20delhi.aspx) | [Show/Hide Answer](javascript:void(0))

NOTE: This is objective type question, Please click question title for correct answer.

[What is cursor in SQL Server?](http://www.dotnetfunda.com/interview/exam296-what-is-cursor-in-sql-server.aspx" \o "What is cursor in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

A cursor is a set of rows together with a pointer that identifies a current row.   
  
In other word, Cursor is a database object used by applications to manipulate data in a set on a row-by-row basis, its like recordset in the ASP and visual basic.   
  
Typical syntax of cursor is

DECLARE @fName varchar(50), @lName varchar(50)

DECLARE cursorName CURSOR -- Declare cursor

LOCAL SCROLL STATIC

FOR

Select firstName, lastName FROM myTable

OPEN cursorName -- open the cursor

FETCH NEXT FROM cursorName

INTO @fName, @lName

PRINT @fName + ' ' + @lName -- print the name

WHILE @@FETCH\_STATUS = 0

BEGIN

FETCH NEXT FROM cursorName

INTO @fName, @lName

PRINT @fName + ' ' + @lName -- print the name

END

CLOSE cursorName -- close the cursor

DEALLOCATE cursorName -- Deallocate the cursor

To know more about cursor, see   
http://www.mssqlcity.com/Articles/General/UseCursor.htm

[What are joins in SQL Server?](http://www.dotnetfunda.com/interview/exam301-what-are-joins-in-sql-server.aspx" \o "What are joins in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

Using joins, we can get the data from two or more tables based on logical condition between the tables.   
  
Use following article to know about all types of joins   
  
http://www.techbubbles.com/sql-server/joins-in-sql-server/

[What is the use of COALESCE in SQL Server?](http://www.dotnetfunda.com/interview/exam300-what-is-the-use-of-coalesce-in-sql-server.aspx" \o "What is the use of COALESCE in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

Coalesce returns the first non-null expression among its arguments.   
  
Lets say we have to return a non-null from more than one column, then we can use COALESCE function.

SELECT COALESCE(hourly\_wage, salary, commission) AS 'Total Salary' FROM wages

In this case,   
  
If hourly\_wage is not null and other two columns are null then hourly\_wage will be returned.   
If hourly\_wage, commission are null and salary is not null then salary will be returned.   
If commission is non-null and other two columns are null then commission will be returned.

[What is OPENXML in SQL Server?](http://www.dotnetfunda.com/interview/exam299-what-is-openxml-in-sql-server.aspx" \o "What is OPENXML in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

OPENXML can parse the xml data in SQL server very efficiently in SQL Server. OpenXML primarily gives the ability to insert XML data to the relational database, however we can query the data too using OpenXML. We need to specify the path of the xml element using xpath.   
  
Syntax:

DECLARE @index int

DECLARE @xmlString varchar(8000)

SET @xmlString ='<Persons>

<Person id="1">

<Name>Mohan</Name>

<PhoneNo>34343</PhoneNo>

</Person>

<Person id="2">

<Name>Sita</Name>

<PhoneNo>23432</PhoneNo>

</Person>

</Persons>'

EXEC sp\_xml\_preparedocument @index OUTPUT, @xmlString

SELECT \*

FROM OPENXML (@index, 'Persons/Person')

WITH (id Varchar(10), Name varchar(100) 'Name' , PhoneNo Varchar(50) 'PhoneNo')

EXEC sp\_xml\_removedocument @index

The above code snippet will give following result.   
---------------------------------   
1 Mohan 34343   
2 Sita 23432   
---------------------------------

[How to return XML in SQL Server?](http://www.dotnetfunda.com/interview/exam298-how-to-return-xml-in-sql-server.aspx" \o "How to return XML in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

We can use FOR XML statement at the end of the query to return xml data from the SQL Server.

select \* from mytable for xml auto

There are three mode of returning XML and they are auto, raw and explicit   
  
For more details see http://www.sqljunkies.ddj.com/Article/296D1B56-8BDD-4236-808F-E62CC1908C4E.scuk

[What is #temp table and @table variable in SQL Server?](http://www.dotnetfunda.com/interview/exam297-what-is-temp-table-and-table-variable-in-sql-server.aspx" \o "What is #temp table and @table variable in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

**#temp Table (Temporary Table)**   
  
temp table is a temporary table that is generally created to store session specific data. Its kind of normal table but it is created and populated on disk, in the system database tempdb — with a session-specific identifier packed onto the name, to differentiate between similarly-named #temp tables created from other sessions.   
  
The data in this #temp table (in fact, the table itself) is visible only to the current scope. Generally, the table gets cleared up automatically when the current procedure goes out of scope, however, we should manually clean up the data when we are done with it.   
  
Syntax:

-- create temporary table

CREATE TABLE #myTempTable (

AutoID int,

MyName char(50) )

-- populate temporary table

INSERT INTO #myTempTable (AutoID, MyName )

SELECT AutoID, MyName

FROM myOriginalTable

WHERE AutoID <= 50000

-- Drop temporary table

drop table #myTempTable

**@table variable**   
table variable is similar to temporary table except with more flexibility. It is not physically stored in the hard disk, it is stored in the memory. We should choose this when we need to store less 100 records.   
  
Syntax:

DECLARE @myTable TABLE (

AutoID int,

myName char(50) )

INSERT INTO @myTable (AutoID, myName )

SELECT YakID, YakName

FROM myTable

WHERE AutoID <= 50

We don't need to drop the @temp variable as this is created inside the memory and automatically disposed when scope finishes.

[Difference between Primary key Constraint and Unique key Constraint in SQL Server.](http://www.dotnetfunda.com/interview/exam277-difference-between-primary-key-constraint-and-unique-key-constraint-in.aspx" \o "Difference between Primary key Constraint and Unique key Constraint in SQL Server.)

Posted by: [Anitha](http://www.dotnetfunda.com/profile/Anitha.aspx) | [Show/Hide Answer](javascript:void(0))

**Unique Key Constraint:**   
The column values should retain uniqueness.   
It allows null values in the column.   
It will create non-clustered index by default.   
Any number of unique constraints can be added to a table.   
  
**Primary Key Constraint:**   
Primary key will create column data uniqueness in the table.   
It Wont allow Null values.   
By default Primary key will create clustered index.   
Only one Primary key can be created for a table.   
Multiple columns can be consolidated to form a single primary key.   
  
Source: **http://interviews.dotnetthread.com/**

[How to change Database name in SQL Server?](http://www.dotnetfunda.com/interview/exam226-how-to-change-database-name-in-sql-server.aspx" \o "How to change Database name in SQL Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

Use following code   
  
Supported in SQL Server 2000 and 2005   
exec sp\_renamedb "test", "test1"   
  
Supported in SQL Server 2005 and later version   
ALTER Database "test1" Modify Name="test"

[what is the diff between a HAVING CLAUSE and a WHERE CLAUSE?](http://www.dotnetfunda.com/interview/exam219-what-is-the-diff-between-a-having-clause-and-a-where-clause.aspx" \o "what is the diff between a HAVING CLAUSE and a WHERE CLAUSE?)

Posted by: [Majith](http://www.dotnetfunda.com/profile/Majith.aspx) | [Show/Hide Answer](javascript:void(0))

You can use Having Clause with the GROUP BY function in query and WHERE Clause is applied to each row before they are part of the GROUP BY function in a query.

[Difference Between Implict Transaction And Explict Transaction](http://www.dotnetfunda.com/interview/exam205-difference-between-implict-transaction-and-explict-transaction.aspx" \o "Difference Between Implict Transaction And Explict Transaction)

Posted by: [Majith](http://www.dotnetfunda.com/profile/Majith.aspx) | [Show/Hide Answer](javascript:void(0))

Implicit Transaction is the auto commit. There is no beginning or ending of the transaction.   
  
Explicit Transaction has the beginning, ending and rollback of transactions with the command   
Begin Transaction   
Commit Transaction and   
Rollback Transation   
In the explicit transaction, if an error occurs in between we can rollback to the begining of the transaction which cannot be done in implicit transaction.

[What's the maximum size of a row?](http://www.dotnetfunda.com/interview/exam203-whats-the-maximum-size-of-a-row.aspx" \o "What's the maximum size of a row?)

Posted by: [Majith](http://www.dotnetfunda.com/profile/Majith.aspx) | [Show/Hide Answer](javascript:void(0))

8060 bytes. Don't be surprised with questions like 'what is the maximum number of columns per table'. Check out SQL Server books online for the page titled: "Maximum Capacity Specifications".

[What's the difference between DELETE TABLE and TRUNCATE TABLE commands?](http://www.dotnetfunda.com/interview/exam201-whats-the-difference-between-delete-table-and-truncate-table-commands.aspx" \o "What's the difference between DELETE TABLE and TRUNCATE TABLE commands?)

Posted by: [Majith](http://www.dotnetfunda.com/profile/Majith.aspx) | [Show/Hide Answer](javascript:void(0))

DELETE TABLE is a logged operation, so the deletion of each row gets logged in the transaction log, which makes it slow. TRUNCATE TABLE also deletes all the rows in a table, but it won't log the deletion of each row, instead it logs the deallocation of the data pages of the table, which makes it faster. Of course.

[What is trigger?](http://www.dotnetfunda.com/interview/exam24-what-is-trigger.aspx" \o "What is trigger?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

Triggers allows us to execute a batch of SQL code when either an insert, update or delete command is executed against a specific table.   
  
Triggers are special types of stored procedures that are defined to execute automatically in place of or after data modifications. They can be executed automatically on the insert, delete and update operation.

[What is a transaction and what are ACID properties?](http://www.dotnetfunda.com/interview/exam202-what-is-a-transaction-and-what-are-acid-properties.aspx" \o "What is a transaction and what are ACID properties?)

Posted by: [Majith](http://www.dotnetfunda.com/profile/Majith.aspx) | [Show/Hide Answer](javascript:void(0))

A transaction is a logical unit of work in which, all the steps must be performed or none. ACID stands for Atomicity, Consistency, Isolation, Durability. These are the properties of a transaction. For more information and explanation of these properties, see SQL Server books online or any RDBMS fundamentals text book.

[What's the difference between a primary key and a unique key?](http://www.dotnetfunda.com/interview/exam200-whats-the-difference-between-a-primary-key-and-a-unique-key.aspx" \o "What's the difference between a primary key and a unique key?)

Posted by: [Majith](http://www.dotnetfunda.com/profile/Majith.aspx) | [Show/Hide Answer](javascript:void(0))

Both primary key and unique enforce uniqueness of the column on which they are defined. But by default primary key creates a clustered index on the column, where are unique creates a nonclustered index by default. Another major difference is that, primary key doesn't allow NULLs, but unique key allows one NULL only.

[How do you implement one-to-one, one-to-many and many-to-many relationships while designing tables?](http://www.dotnetfunda.com/interview/exam199-how-do-you-implement-onetoone-onetomany-and-manytomany-relation.aspx" \o "How do you implement one-to-one, one-to-many and many-to-many relationships while designing tables?)

Posted by: [Majith](http://www.dotnetfunda.com/profile/Majith.aspx) | [Show/Hide Answer](javascript:void(0))

One-to-One relationship can be implemented as a single table and rarely as two tables with primary and foreign key relationships.   
One-to-Many relationships are implemented by splitting the data into two tables with primary key and foreign key relationships.   
Many-to-Many relationships are implemented using a junction table with the keys from both the tables forming the composite primary key of the junction table.

[How to join two tables in Sql Server?](http://www.dotnetfunda.com/interview/exam125-how-to-join-two-tables-in-sql-server.aspx" \o "How to join two tables in Sql Server?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

you can write following sql statement   
  
select category.\*, categoryparent.categoryparent from category, categoryparent where category.categoryparentid = categoryparent.autoid   
  
I am assuming here that category.categoryparentid (foreign key) is the value of categoryparent.autoid (primary key).

[What Primary key and Unique key?](http://www.dotnetfunda.com/interview/exam77-what-primary-key-and-unique-key.aspx" \o "What Primary key and Unique key?)

Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))

Primary key are used with Foreign key to enforce referential integrity. Unique constraints allows nulls to be inserted into the field. But there can't be null in Primary key.

[What is the difference between Truncate and Delete?](http://www.dotnetfunda.com/interview/exam76-what-is-the-difference-between-truncate-and-delete.aspx" \o "What is the difference between Truncate and Delete?)

Posted by: [Poster](http://www.dotnetfunda.com/profile/Poster.aspx) | [Show/Hide Answer](javascript:void(0))

Delete statement removes rows of a table one by one & delete triggers on that table fires. But Truncate removes all rows by deallocating the data pages assigned to the table & only these deallocation are recorded in the transaction log.

[What is constraints?](http://www.dotnetfunda.com/interview/exam48-what-is-constraints.aspx" \o "What is constraints?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

SQL Server users constraints to enforce limitations on the data that can be entered into a particular column in table. There are following types of constraints.   
  
Unique, Default, Check, Primary Key, Foreign Key, Not Null.

[How many types of triggers are there?](http://www.dotnetfunda.com/interview/exam47-how-many-types-of-triggers-are-there.aspx" \o "How many types of triggers are there?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

There are four types of triggers.   
  
1. Insert   
2. Delete   
3. Update   
4. Instead of

[What is Clustered & Non-Clustered Index?](http://www.dotnetfunda.com/interview/exam46-what-is-clustered--nonclustered-index.aspx" \o "What is Clustered & Non-Clustered Index?)

Posted by: [Raja](http://www.dotnetfunda.com/profile/Raja.aspx) | [Show/Hide Answer](javascript:void(0))

**Clustered Index:** Clustered index physically rearrange the data that users inserts in your tables. It is nothing but a dictionary type data where actual data remains.   
  
  
**Non-Clustered Index:** It Non-Clustered Index contains pointers to the data that is stored in the data page. It is a kind of index backside of the book where you see only the reference of a kind of data.