**C#**

1. Predict the output

using (con = new SqlConnection(GetConnectionString()));

{​​​​​

using (SqlCommand com = new SqlCommand("InsertEmployee", con))

{​​​​​

com.CommandType = System.Data.CommandType.StoredProcedure;

SqlParameter p1 = new SqlParameter("@id", id);

con.Open();

com.ExecuteNonQuery();

con.Close();

}​​​​​

}

1. It will run successfully
2. Compile Time Error
3. Run Time Error
4. It will execute, but will not insert Record
5. Predict the output

using (con = new SqlConnection(GetConnectionString()))

{​​​​​

using (SqlCommand com = new SqlCommand("InsertEmployee", con))

{​​​​​

com.CommandType = System.Data.CommandType.StoredProcedure;

SqlParameter p1 = new SqlParameter("@id", id);

com.ExecuteNonQuery();

con.Close();

}​​​​​

}

1. It will run successfully
2. Compile Time Error
3. Run Time Error
4. It will execute, but will not insert Record

3. What is the return type of ExecuteNonQuery() method

a. object

b.int

c. Nothing

d. Collection

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4. What is the output if we enter 12 in id

Int id;

String name;

Console.WriteLine("Enter id");

id = Convert.ToInt32(Console.Read);

Console.WriteLine("Enter Name");

name = Console.ReadLine();

1. It will work properly
2. It will give ASCII value of 1
3. Run time Error
4. Compile Time Error

5. What is a Solution in Visual Studio

a. Container for projects

b. Container for WebApi

c. Container for Forms

d. All of the above

6. What will be the output of the following

static void Main(string[] args)

{

int x, y;

x = 10;

y = 20;

Console.WriteLine("Sum of {0} and {1} is {2} ", x,y,x+y);

}

1. Sum of 10 and 20 is 30
2. Sum of 10 and 20 is 1020
3. Run time Error
4. Compile Time Error

7.

What is the output if the choice is 8

static void Main(string[] args)

{

int x, y;

x = 10;

y = 20;

int ch;

if(ch==1)

Console.WriteLine("Sum of {0} and {1} is {2} ", x,y,(x+y));

else if(ch==2)

Console.WriteLine("Difference of {0} and {1} is {2}",x,y,(x - y));

else if(ch==3)

Console.WriteLine("Product of {0} and {1} and {2} " , x,y ,x \* y);

else if(ch==4)

Console.WriteLine("Quotient of " + x + " and " + y + " is " + x / y);

else

Console.WriteLine("Invalid Statement");

1. Run time Error
2. Compile Time Error
3. Invalid Statement
4. We will get Message : There is no option

8. What will be the output of the following:

static void Main(string[] args)

{

int x = 10;

if(x%2=0)

Console.WriteLine("No is even");

else

Console.WriteLine("No id odd");

}

1. Compile Time Error
2. Run time Error
3. No is even
4. No is odd

9. What will be the output of the following

int x, y;

x = 10;

y = 20;

int ch = 3;

switch (ch)

{

case 1:

{

Console.WriteLine("Sum of {0} and {1} is {2} ", x, y, (x + y));

break;

}

case 2:

{

Console.WriteLine("Difference of {0} and {1} is {2}", x, y, (x - y));

}

case 3:

{

Console.WriteLine("Product of {0} and {1} and {2} ", x, y, x \* y);

break;

}

case 4:

{

Console.WriteLine("Quotient of " + x + " and " + y + " is " + x / y);

break;

}

default:

{

Console.WriteLine("Invalid choice");

break;

}

}

1. Run time Error
2. Compile Time Error
3. Product of 10 and 20 and 200
4. Invalid choice

10. What will be the output of the following

for(x=1;x>=10;x++)

Console.WriteLine(x);

1. Run time Error
2. Compile Time Error
3. Program is correct in syntax, There is logical error
4. It will print numbers from 1 to 10

11. How do we tell that a particular parameter will be returned from a stored procedure as an output parameter

a. System.Data.ParameterDirection

b. System.Data.Type

c. System.Data.Direction

d. None of these

12. What is not true about foreach loop

a. It is used to iterate through records of a collection

b. We can modify records inside this loop

c. We can not modify records inside this loop

d. It is more time consuming as compared to for loop

13. What will be output of the following

sealed class A

{

int a;

}

class B : A

{

int b;

}

B B1 = new B();

Console.WriteLine(B1.b);

1. Compile Time Error
2. Run Time Error
3. It will display value of b
4. It will display value of a

------------------------------------------

14. What will be the output of following

static void Main(string[] args)

{

int[] num = new int[10]{1,1,2,-1,-2,-3,-9,-9,0,-1};

int sum = 0;

for(int i=0;i<10;i++)

{

if (num[i] < 0) continue;

sum += num[i];

}

Console.WriteLine("Sum is " + sum);

}

1. Sum is 4
2. Sum is -21
3. Sum is 29
4. Sum is 0

15. What will be the output of following

static void Main(string[] args)

{

int[] num = new int[10]{0,1,1,2,-1,-2,-3,-9,0,-1};

int sum = 0;

for(int i=0;i<10;i++)

{

if (num[i] == 0) break;

sum += num[i];

}

Console.WriteLine("Sum is " + sum);

}

a.Sum is 4

b.Sum is -21

c.Sum is 29

d.Sum is 0

16. Which one is not a collection

a. Array

b. ArrayList

c. Stack

d. HashTable

17. What will be the output of the following

ArrayList list = new ArrayList();

list.Add(1);

list.Add(2);

list.Add(3);

list.Add(4);

list.Add(“5”);

foreach(int temp in list)

Console.WriteLine(temp);

1. Compile Time Error
2. Run Time Error
3. It will print 1 2 3 4 5
4. It will print 1 2 3 4

18. What will be output of the following

ArrayList list = new ArrayList();

list.Add(1);

list.Add(2);

list.Add(3);

list.Add(4);

list.Add(5);

list.Insert(1, 10);

list.RemoveAt(2);

list.Remove(5);

foreach(int temp in list)

Console.WriteLine(temp);

1. 1 10 3 4
2. 1 2 3 4 5
3. 1 10 2 3 4
4. 1 10 2 4

19. What will be the output of the following

Hashtable ht = new Hashtable();

ht[1] = 20;

ht[2] = 30;

ht[3] = 89;

foreach(int temp in ht.Keys)

{

Console.WriteLine(temp);

}

1. 1 2 3
2. 3 2 1
3. 20 30 89
4. 89 30 20

20. What will be the output of the following

Console.WriteLine("Enter RollNo");

rn = Convert.ToByte(Console.ReadLine());

Console.WriteLine("Enter Name");

name = Console.ReadLine();

If we enter 300, what will be the output

1. Exception
2. Compile Time Error
3. It will execute
4. Method ToByte is not there in C#

21.

**Sql Server**

1. What is not true about SQL

a. This is a language used to work with RDBMS

b. Easy to learn , syntax is same as english language

c. Case Sensitive

d. All of the above

2. What is the output of the following query

Select \* from Employee where name LIKE '%g%'

1. It will display all records where name contains g
2. It will display all records where name starts with g
3. It will display all records where name ends with g
4. All of the above

3. What will be the output of following

Table Employee with following structure

id int, name varchar(20) , address varchar(20), salary int

insert into Employee values(1,'Ajay','Delhi',12000)

1. It will insert data successfully
2. Run time Error
3. Will not execute
4. This Query is not correct

4. What will be the output of following

Table Employee with following structure

id int, name varchar , address varchar(20), salary int

insert into Employee values(1,'Ajay','Delhi',12000)

1. It will insert data successfully
2. Run time Error
3. Will not execute
4. It will execute, but record will not be inserted properly

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5. What will be the output of following

Table Employee with following structure

id int, address varchar(20) , address varchar(20), salary int

insert into Employee values(1,'Delhi',12000)

1. It will insert data successfully
2. Run time Error
3. It will put NULL implicitly in name column
4. This Query is not correct

6. What is the output of following query

select \* from Employee where salary BETWEEN 12000 and 20000

a.It will give all records where salary is in between 12000 and 20000 including these two values

b. It will give all records where salary is in between 12000 and 20000 excluding these two values

c. Will not give any output

d. Run time Error

7. What will be output of following

create table Trainer (trainerid int, trainername varchar(20), experience

int , qualification varchar(20))

alter table Trainer add constraint pk primary key (trainerid)

1. It will create TrainerID as the primary key
2. We can not create Primary Key after table is created
3. Exception
4. The Query is not correct

8. What is the query to remove a column from the table

a. remove column

b. drop column

c. delete column

d. Any of the above command will work

9. We created a table with column Empidd in table Employee, later we want to change its name to Empid. Which command shall we use

a. exec sp\_rename ‘Employee.Empidd', 'Empid' ,'COLUMN'

b. alter table Employee rename Empidd Empid

c. Drop table and create it again

d. exec rename column Empidd Empid

10. We have 100 records in a View. There are 50 records where id < 100 After We delete all records where id < 100, how many records will remain in the View

a. Data is never removed from View as it does not contain any data

b. There will be 50 records in the View

c. All the records will be available in the View as the records are removed from the table not from the view

d. We can not remove records from the View

11. What will be the output of following

create procedure usp\_GetDetails

AS

Begin

declarse @department varchar(20)

set @department =’HR’

print @department

end

exec usp\_ GetDetails

1. HR
2. Compile Time Error
3. Run Time Error
4. Will not execute but will not print anything

12. What will be the output of following

create proc InsertEmployee (@id int , @name varchar(20), @address varchar(20))

AS

Begin

insert into employee values(@id, @name,@address)

End

exec InsertEmployee 101,'Pradeep','Delhi'

declare @id int

declare @name varchar(20)

declare @address varchar(20)

set @id=12

set @name='Ajay'

set @address='Delhi'

exec InsertEmployee @id, @name, @address

1. Compile Time Error
2. Run Time Error
3. It will insert the record
4. Query is correct, but it will not insert Record

13.

What will be the output of the following

create proc InsertEmployee (@id int , @name varchar(20), @address varchar(20))

AS

Begin

if(exists(Select 1 from employee where id=@id))

return 0

else

begin

insert into employee values(@id, @name,@address)

return 1

end

End

1. It will not insert record where id is already existing
2. Compile Time Error
3. Run Time Error
4. Will insert records whatever id we pass

14. How do we relate two tables

a. Through Primary Key

b. Through Foreign Key

c. Through Joins

d. Through Unqiue Key

15.

Transaction can not be cancelled once they are initiated

1. True
2. false

16. Once we create constraint on a column, we cannot delete that column from table

a. We can not delete columns that have constraints

b. First remove the constraint than we can delete columns

c. Constraints can not be deleted.

d. Drop table

17.

Which statement is not correct about Trigger

1. Special Stored procedure which is automatically fired when we perform Select Query on a table
2. Special Stored procedure which is automatically fired when we perform Insert Query on a table
3. Special Stored procedure which is automatically fired when we create in Database
4. Special Stored procedure which is automatically fired when we perform Update/Delete/Insert Query on a table

18. What will be output of the following

DECLARE @Counter INT

SET @Counter=1

WHILE ( @Counter <= 10)

BEGIN

PRINT 'The counter value is = ' + CONVERT(VARCHAR,@Counter)

SET @Counter = @Counter + 1

END

1. It will print from 1 to 10
2. It will not print from 1 to 10
3. Compile Time Error
4. Run time Error

19. What is 2nd Normal Formal Form

a. A table is in 2nd NF if it contains atomic values in all cells

b. A table is in 2nd NF if it there is a dependency of non-key attributes on key attributes directly

c. A table is in 2nd NF if it there is dependency of non-key attributes on complete primary key and not subset of primary key

d. None of the above

20.

What will be output of the following

update emp set salary ='aaa'

where salary is an integer column

1. Exception
2. It will update the column
3. Compile Time Error
4. None of the above

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