Dot Net - SQL Server - DQ - S1 - Day 1

 Q. The two spatial data types in SQL Server are 1). Geometry 2). Geography 3). HierarchyID 4). Alias
 Q. Which of the following are Referential integrity? 1). Foreign Key 2). Check 3). Default 4). Unique is a property
 Q contains information on all granted, converting, and waiting lock requests. 1). Syslogin 2). Sysdatabase 3). SyslockInfo 4). Syscacheobjects
 Q.In model Data and the relationships among them are represented in the form of record s and links. 1). Network 2). Hierarchical 3). Flat 4). Relational
 Q. Which of the following are the tables from MSDB database? 1). Sysjobs 2). Sysalerts 3). Sysobjects 4). Sysnotification 5). Systypes
Q. The gender column can accept only 3 values - M,F and T.What integrity enforcement is this ?1). Referential

2). Entity

3). Required
4). Domain
 Q is a userdefined schema bound object that generates a steps of numeric values according to the specification with which the steps were created. 1). Identity 2). Sequence 3). Trigger 4). Stored Procedure
 Q is a graphical user interface to SQL Trace for monitoring an instance of the SQL Serv er Database Engine or Analysis Services. 1). SQL Profiler 2). Database Tuning Advisor 3). SQL Server Configuration Manager 4). Reporting Service Configuration Manager
4). Reporting Service Configuration Manager
 Q. Which of the following is not a system database? 1). Master 2). msdb 3). tempdb 4). northwind 5). model
 Q. Sonali has a products dimension table which consists of information about the products. She needs to sync-up this table with the latest information about the products from the source table. Which SQL Server command/statement she should use? 1). Insert 2). Update 3). Delete 4). Merge

Dot Net - SQL Server - DQ - S1 - Day 2

- Q. Which of the following query will give an error?
- 1). select deptno, job, sum(sal)

from emp

group by job, deptno;

2). select sum(sal), deptno, job from emp

group by job, deptno;

3). select deptno, job, sum(sal) from emp group by job;

4). select sum(sal), job from emp group by job, deptno

- Q. Give in which order following statements will be executed:
- 1. Where
- 2. Order by
- 3. Group by
- 4. From
- **1)**. 1,2,4,3
- **2)**. 1,4,3,2
- 3). 2,4,3,1
- 4). 4,1,3,2
- **Q.** Create table item (itemno int primary key, item_name nvarchar(15)) Which of the following statement is true?
- 1). Item number can be NULL
- 2). Item name can be NULL
- 3). Both item number and item name cannot be NULL
- 4). This is an example of DML statement
- Q. Can a default constraint be defined for a column which has identity property?
- 1). No
- 2). Yes
- 3). Identity cannot be bound to a column

- **Q.** All development centres of ABC company has always given a four character code. What would be the appropriate data type for the field storing centre code?
- 1). varchar
- 2). nvarchar
- **3)**. text
- 4). Char
- Q. Given the StudentPerformance table:

Stud_code int Year int subject_code char(3) score int

Which query will list the following report?

year subject Average
1). SELECT YEAR, SUBJECT_CODE, AVG(SCORE)
FROM StudentPerformance

GROUP BY YEAR, SUBJECT_CODE

2). SELECT YEAR, SUBJECT_CODE, AVG(SCORE) FROM StudentPerformance GROUP BY SUBJECT CODE

3). SELECT YEAR, SUBJECT_CODE, SCORE FROM StudentPerformance WHERE subject_code ORDER BY SUBJECT_CODE, YEAR COMPUTE AVG(score)

4). SELECT YEAR, SUBJECT_CODE, SUM(SCORE) FROM StudentPerformance GROUP BY YEAR, SUBJECT_CODE

Q. What will be the output of below query?

SELECT REPLACE('abcdefghicde','cde','xxx');

- 1). abxxxfghixxx
- 2). abdexfghixxx
- 3). abedcxxfghixxx
- 4). abxxfghixxx
- **Q.** Meena would like to display all the books having "The" anywhere in the title. What would be the query?
- 1). Select book_code, book_name from book_master where book_name like 'The%'

- **2)**. Select book_code, book_name from book_master where book_name like '%The'
- **3)**. Select book_code, book_name from book_master where book_name like 'The'
- 4). Select book_code, book_name from book_master where book_name like '%The%'
- Q. Given a Table Structure and records:

EmpName	Phone
Abcd	123456
Efgh	NULL
Mnop	NULL
XYZ	234566
AAAA	NULL
	Abcd Efgh Mnop XYZ

What would be the output if Rahul says? SELECT Empno

FROM EMP

FROIVI EIVIF

WHERE Phone=NULL

- 1). 3 records
- 2). 0 records
- 3). Error
- 4). 2 records
- **Q.**Rahul have an employee table, containing 5000 records. Rahul want to add a Primary key constra int on Emp code.

How can Rahul achieve this?

- 1). Copy all the records to a temp table, Recreate the employee table with Primary Key and add the r ecords back
- 2). Create a rule for Primary key and bind it to the employee table
- 3). Using alter table add constraint
- 4). Cannot be done if table has records

Dot Net - SQL Server - DQ - S1 - Day 3

- **Q.** Subqueries can be nested inside the _____ clause.
- 1). Where
- 2). Group by

```
3). having
4). select
          takes the data from both result sets which are in common.
1). Intersect
2). Union
3). Union All
4). Except
Q. What is the output of the query?
SELECT BOOK_CODE, BOOK_NAME
FROM BOOK_MASTER
WHERE AUTHOR =
(SELECT AUTHOR
FROM BOOK_MASTER
WHERE BOOK_CATEGORY IN ('FIC','HIS')
1). Book Codes of all authors who have written books of fiction and History
2). Book Codes of all authors who have written books of fiction or History
3). Error: You cannot have a main query and subquery referring to the same table
4). Error: Subquery is returning more than 1 row
Q. Which two queries are indentical?
1). SELECT customer, NULL as year, SUM(sales)
FROM T
GROUP BY customer
UNION ALL
SELECT NULL as
customer, year, SUM(sales)
FROM T
GROUP BY year
2). SELECT customer, NULL as year, SUM(sales)
FROM T
GROUP BY customer
UNION
SELECT NULL as
customer, year, SUM(sales)
FROM T
GROUP BY year
3). SELECT customer, year, SUM(sales)
```

FROM T

GROUP BY GROUPING SETS ((customer), (year))

4). SELECT customer, year, SUM(sales)

FROM T

GROUP BY GROUPIBy ((customer), (year))

Solution:

option [1,3] are correct

Attempted:

option [1,3] are attempted

Q.Consider a join SalesTerritory table and the SalesPerson table on their TerritoryID columns. The results show any territory that has been assigned to a sales person.

To include all sales persons in the results, regardless of whether they are

To include all sales persons in the results, regardless of whether they are assigned a territory, Which query would be more appropriate?

1). SELECT st.Name AS Territory, sp.BusinessEntityID

FROM Sales.SalesTerritory st

LEFT OUTER JOIN Sales. Sales Person sp

ON st.TerritoryID = sp.TerritoryID;

2). SELECT st.Name AS Territory, sp.BusinessEntityID

FROM Sales.SalesTerritory st

RIGHT OUTER JOIN Sales.SalesPerson sp

ON st.TerritoryID = sp.TerritoryID;

3). SELECT st.Name AS Territory, sp.BusinessEntityID

FROM Sales.SalesTerritory st

FULL OUTER JOIN Sales. Sales Person sp

ON st.TerritoryID = sp.TerritoryID;

4). SELECT st.Name AS Territory, sp.BusinessEntityID

FROM Sales.SalesTerritory st

INNER JOIN Sales. Sales Person sp

ON st.TerritoryID = sp.TerritoryID;

Q. Given the following tables:

Customers

Cust Code

Cust name

Cust_city

Orders

=======

Ord no

Ord date

Cust Code

Order_Value

Query to find out all those customers who have placed an order larger than Rs 10,000 last year?

1). SELECT CUST NAME

FROM CUSTOMERS

WHERE EXISTS

(SELECT ORD_NO

FROM ORDERS

```
WHERE YEAR(ORD DATE) = YEAR(getdate())-1
AND Order value >= 10000
2). SELECT CUST NAME
FROM CUSTOMERS
WHERE CUST_CODE IN
(SELECT ORD_NO
FROM ORDERS
WHERE YEAR(ORD_DATE) = YEAR(getdate())-1
AND Order_value >= 10000
3). SELECT CUST NAME
FROM CUSTOMERS
WHERE CUST_CODE IN
(SELECT CUST CODE
FROM ORDERS
WHERE YEAR(ORD_DATE) = YEAR(getdate())-1
AND Order_value >= 10000
)
4). SELECT CUST_NAME
FROM CUSTOMERS
LEFT OUTER JOIN ORDERS
ON CUSTOMERS.CUST CODE = ORDERS,CUST CODE
WHERE YEAR(ORD_DATE) = YEAR(getdate())-1
AND Order_value >= 10000
Q.Meena need to find out all the staff 's along with joining date who work in ROBOTICS department
Which of the following query will give the required output?
1). SELECT STAFF CODE, STAFF NAME, Hire date
FROM STAFF_MASTER
WHERE DEPT_CODE =
 SELECT DEPT CODE
 FROM DEPARTMENT MASTER
 WHERE DEPT NAME='ROBOTICS'
2). SELECT STAFF CODE, STAFF NAME, HIRE DATE
FROM STAFF_MASTER,
INNER JOIN DEPARTMENT_MASTER
ON DEPARTMENT_MASTER.DEPT_CODE = STAFF_MASTER.DEPT_CODE
WHERE DEPT_NAME='ROBOTICS'
3). SELECT STAFF CODE
FROM DEPARTMENT MASTER
INNER JOIN STAFF_MASTER
ON STAFF MASTER.DEPT CODE =DEPARTMENT MASTER.DEPT CODE
WHERE DEPT NAME='ROBOTICS'
4). SELECT STAFF_CODE, STAFF_NAME
FROM STAFF MASTER
WHERE DEPT_CODE IN
```

```
SELECT DEPT_CODE
FROM DEPARTMENT_MASTER
WHERE DEPT_NAME = 'ROBOTICS'
```

- **Q.**A type of join which always returns the same number of rows, irrespective of the joining sequence of table
- 1). Natural Join
- 2). Inner Join
- 3). Outer Join
- 4). Self join
- **Q.** Rahul gives the following query:

SELECT DEPARTMENT.DEPT_CODE, DEPT_NAME, STAFF_CODE, STAFF_NAME FROM STAF, DEPARTMENT

- 1). Error: Where clause missing
- 2). All staff details along with department details
- 3). A cross join between staff and department
- 4). A natural join between Department and Staff

Q.Which of the following query will give correct result to find all the courses taught in the Odd semes ter 2014

but not in the Even semester 2015?

1). SELECT DISTINCT Course ID

FROM Course

WHERE Semester = 'Odd' AND

Year= 2014 AND

Course_ID NOT IN (SELECT Course_ID

FROM CourseWHERE Semester = 'Even' AND Year= 2015);

2). SELECT DISTINCT Course_ID

FROM Course

WHERE CourseName NOT IN ('Odd', 'Even');

3). SELECT DISTINCT Course ID

FROM Course

WHERE Semester = 'Odd' AND

Year= 2014 AND

Course ID EXISTS (SELECT Course ID

FROM CourseWHERE Semester = 'Even' AND Year= 2015);

4). SELECT DISTINCT Course_ID

FROM Course

WHERE Course_ID NOT IN (SELECT Course_ID

FROM CourseWHERE Semester = 'Even' AND Year= 2015);

Dot Net - SQL Server - DQ - S1 - Day 4

Q. What Type of Index is the below query? CREATE NONCLUSTERED INDEX FIBIIIOfMaterialsWithEndDate ON Production.BillOfMaterials (ComponentID, StartDate) WHERE EndDate IS NOT NULL; 1). NonClustered 2). ColumStore 3). Unique 4). Filtered Q. Given a procedure code: create procedure calculate_grade(@i_studentcode int,@o_grade char OUT) begin select @o_grade = case when (subject1+subject2+subject3) >= 80 then 'A' when (subject1+subject2+subject3) >= 60 then 'B' else 'F' **END** FROM student_marks Where student_code = @i_studentcode end What will be the output if the user enters null as student code? **1)**. A **2)**. B 3). F 4). Null **5)**. 0 Q. Meena creates a view: CREATE VIEW BOOK_INVENTORY_vw SELECT CATEGORY, COUNT(BOOK_CODE) as "No_Books" FROM BOOK MASTER **GROUP BY CATEGORY** Is the view updatable?

1). Yes updatable

- 2). Non Updatable
- 3). The view cannot be created as it has a group by clause
- 4). The view cannot be created as it is not including the primary key of the base table
- **Q.** Meena want to create an index which will satisfy the following criteria:
- 1)Faster query performance for common data warehouse queries
- 2)Data is stored in a highly compressed form to reduce the storage space
- 1). Create a Unique Index
- 2). Create a Non Clustered Index
- 3). Create a Clustered Index
- 4). Create a Column Store Index

Q.Given a procedure code. I need to add a validation that if the student code is null or less than 0, then it should raise an exception:

```
create procedure calculate_grade(@i_studentcode int,@o_grade char OUT)
begin
  select @o_grade =
  case
    when (subject1+subject2+subject3) >= 80 then 'A'
    when (subject1+subject2+subject3) >= 60 then 'B'
  else 'F'
  END
  FROM student marks
  Where student code = @i studentcode
1). create procedure calculate_grade(@i_studentcode int,@o_grade char OUT)
  as
  begin
    if @i_studentcodeis null or @i_studentcode < 0
      print 'invalid code'
2). create procedure calculate grade(@i studentcode int,@o grade char OUT)
  as
  begin
    if @i_studentcode = null or @i_studentcode < 0
      raiserror 'Invalid code'
3). create procedure calculate grade(@i studentcode int,@o grade char OUT)
  begin
    if @i studentcode is null or @i studentcode < 0
      raiserror('Invalid code',1,1)
```

```
4). create procedure calculate_grade(@i_studentcode int,@o_grade char OUT)
  as
  begin
    if @i_studentcodeis null or @i_studentcode < 0
      return 'Invalid code'
Q. Which of the following statements are true for clustered index?
1). On a table with more than one clustered index can be created.
2). The records are logically sorted on key value.
3). The records in the table are physically sorted on key value.
4). None of the above
Q. To get output from procedure ______ types of parameters can be used.
1). OUT
2). OUTPUT
3). INOUT
4). None of the above
Q. Given a prototype of a procedure:
create procedure proc1 (@var1 int, @var2 int OUT)
as
 begin
 end
How can the procedure be executed?
1). begin
    declare @var1 int
    set @var1= proc1(10)
    print @var1
end
2). begin
    declare @var1 int
     exec proc1(10,@var1)
    print @var1
end
3). begin
    declare @var1 int
     exec proc1(10,@var1 out)
    print @var1
end
4). begin
    declare @@var1 int
     exec proc1(10)
```

```
end
Q. A Unique non clustered index is created for _____ constraint.
1). Primary Key
2). Foreign Key
3). Unique
4). Default
Q. create table sample
  number int check (number > 10)
 GO
 insert into sample values(2)
 GO
 IF @@error = 0
  print 'success'
 else
  print 'error'
What will be the output of above code snippet?
1). success
2). error
```

print @@var1

3). invalid: