**Synechron T-SQL Assignment**

Please select the correct result:

**1) SELECT 15**

Output of this query would be.

A). Throw error

B). 15

C). 0

D). 1

**2) SELECT COUNT(\*)**

output of this query would be.

A). Throw error

B). 0

C). 1

D). \*

**3) SELECT COUNT('7')**

output of this query would be.

A). Throw error

B). 7

C). 0

D). 1

SCENARIO

Below is the EMP table structure with data:

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **MGRID** | **DOB** |
| 1 | Dave | NULL | 1982-01-12 |
| 2 | Scott | 1 | 1985-05-22 |
| 3 | Mike | 1 | 1990-09-10 |
| 4 | Nick | 3 | 1978-02-02 |
| 5 | Jack | 1 | 1995-05-22 |
| 6 | Tim | 3 | 1964-03-23 |
| 7 | Chris | 6 | 1985-07-29 |

**Question 4:** You need to find out the ManagerID and ManagerName for all the employees in the below format

**Output:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **ManagerID** | **ManagerName** |
| 1 | Dave | NULL | NULL |
| 2 | Scott | 1 | Dave |
| 3 | Mike | 1 | Dave |
| 4 | Nick | 3 | Mike |
| 5 | Jack | 1 | Dave |
| 6 | Tim | 3 | Mike |
| 7 | Chris | 6 | Tim |

**Question 5:** Also need to find out those employees who are more than 35 years of age in the below Format

**Output:**

**Age** **Name**

36 Nick

50 Tim

SCENARIO

Below is the table Data with only one row

|  |  |
| --- | --- |
| **ID** | **Name** |
| 1 | One |

**Question 6:** You need to select 2 rows from this table and display in below format

**Output:**

|  |  |
| --- | --- |
| **ID** | **Name** |
| 1 | One |
| 1 | One |

SCENARIO

Please find the data for below 2 tables

|  |  |
| --- | --- |
| **ID** | **Name** |
| 1 | Sam |
| 2 | Joe |
| 3 | Mike |
| 4 | Nick |
| 5 | Tom |

|  |  |
| --- | --- |
| **ID** | **Name** |
| 1 | Joe |
| 2 | Nick |
| 3 | Mike |
| 4 | Thomas |
| 5 | Tom |
| 6 | Stuart |

Please answer the number of rows it will return for the below queries running on above tables

**Question 7:**

SELECT \* From Data

UNION

SELECT \* From NewData

A). Throw error

B). 0

C). 9

D). 11

**Question 8:**

SELECT \* From Data

UNION ALL

SELECT \* From NewData

A). Throw error

B). 1

C). 9

D). 11

**Question 9:**

SELECT \* From Data

EXCEPT

SELECT \* From NewData

A). 4

B). 11

C). 3

D). 9

**Question 10:**

SELECT \* From Data

INTERSECT

SELECT \* From NewData

A). 9

B). 3

C). 1

D). 2

SCENARIO

Below is a table which has some duplicate records

|  |  |  |
| --- | --- | --- |
| **ID** | **Name** | **City** |
| 1 | Jack | NewYork |
| 2 | Toad | NewJercy |
| 3 | Perry | London |
| 4 | Joe | NewYork |
| 5 | Jack | NewYork |
| 6 | Perry | London |
| 7 | Scott | NewJercy |

**Question 11:**

Write a query to Delete Duplicate Records from table employee where employee name and city should not be repeated. i.e if employee name and city are same are same, it should be considered as duplicate.

SCENARIO

Below is the EmpSalary structure with data:

|  |  |
| --- | --- |
| **Name** | **Salary** |
| Susan | 5200 |
| Mike | 2000 |
| Jordan | 3500 |
| Maria | 2800 |
| Sunny | 5000 |
| Tom | 1800 |
| Adam | 3400 |
| Sam | 4500 |

**Question 12:**

Find out the 3rd highest salary from the above table and the output should be like below:

Output:

|  |  |
| --- | --- |
| **Name** | **Salary** |
| Sam | 4500 |

SCENARIO

Below is the table data with some negative and positive values in a column

|  |
| --- |
| **Value** |
| 10 |
| -15 |
| -33 |
| -58 |
| 32 |
| -8 |
| -62 |
| 69 |
| 78 |
| -81 |

**Question 13:** You need to write a query to find the sum of negative numbers and the sum of the positive numbers in two separate columns.

**Output:**

|  |  |
| --- | --- |
| **NEGATIVE** | **POSITIVE** |
| -257 | 189 |

SCENARIO

Below is the table data with only 1 column and 7 rows

|  |
| --- |
| **COL1** |
| 2344AW |
| 9585QA |
| 554VBNGT |
| 123GT |
| 8457 |
| 239 |
| 239A |

**Question 14:** You need to split the numbers in one column and characters in separate column like shown below

**Output:**

|  |  |
| --- | --- |
| **Numeric** | **Character** |
| 2344 | AW |
| 9585 | QA |
| 554 | VBNGT |
| 123 | GT |
| 8457 |  |
| 239 |  |
| 239 | A |

**Question 15:** Write a query to select only those rows which contains numeric values.

**Output:**

|  |
| --- |
| **COL1** |
| 8457 |
| 239 |