[Lab no. 05]

[Data Base Management System] [Set Operations in SQL]

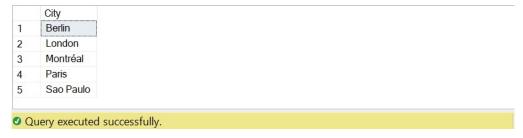
Exercise:

a) Write query that retrieve those cities of Customers where any supplier belongs to.

Solution:

```
use Northwind
SELECT DISTINCT c.City
FROM Customers c
WHERE EXISTS (
    SELECT 1
    FROM Suppliers s
    WHERE s.City = c.City
);
```

Output:



b) Write query that retrieve those cities of Customers where no single supplier belongs to.

Solution:

```
use Northwind
SELECT DISTINCT c.City FROM Customers c WHERE NOT EXISTS (SELECT 1 FROM Suppliers s
WHERE s.City = c.City );
```

Output:



c) Write query that retrieve the regions of Employees and Suppliers.

Solution:

```
use Northwind
SELECT DISTINCT E.Region AS Employee_Region, S.Region AS Supplier_Region
FROM Employees E
JOIN Suppliers S ON E.Region = S.Region;
```

Output:

```
Employee_Region Supplier_Region

Ouery executed successfully.
```

ABDULLAH 02-131222-099

[Lab no. 05]

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d) List distinct cities from of customers and suppliers, country must be Germany.

Solution:

```
use Northwind
SELECT DISTINCT City
FROM (
        SELECT City, Country
        FROM Customers
        UNION
        SELECT City, Country
        FROM Suppliers
) AS Combined
WHERE Country = 'Germany';
```

Output:



e) List all customers and suppliers (ContactName, City, and Country).

Solution:

```
use Northwind
SELECT ContactName, City, Country
FROM (
    SELECT ContactName, City, Country
    FROM Customers
    UNION ALL
    SELECT ContactName, City, Country
    FROM Suppliers
) AS Combined;
```

Output:



ABDULLAH 02-131222-099