



Exercise – Common Functions

Objectives

The primary objective of this lab is to gain familiarisation with some of the Common functions in SQL.

Reference material

This practical is based on material in the *Common Functions* chapter.

Overview

In this exercise you will use the QASore database and write SQL SELECT statements to query the contents of its tables using some common functions.

Estimated duration

The estimated duration for this lab is 20 minutes.

Step by step

Please follow the instructions below, reading CAREFULLY at all times as the questions have been thoughtfully worded.

1. Start SQL Server Management studio from the Windows Start button.
2. Enter .\SQLEXPRESS as the Server name in the Connect to Server dialog box.
3. Choose QASore from the drop down list of available databases located on the standard toolbar to ensure that it is selected as the current database.
4. Click the New Query button on the standard toolbar.
5. Enter the following code into the query window:

```
SELECT * FROM salesperson
```

6. Execute the query and note that the entire content of the table appears in the results pane.



Query 1

Write a query that selects all the salespeople who meet the following conditions:

- We would like you to display the emp_no for each sales person.
- We want to display the first character of the sales persons first name.
- We want to concatenate the two names together with a space between them.
- If you do it right then the results should look like the following:

emp_no	name
10	A Brick
20	B Custard
30	C Digger
40	D Ernst
50	E Flipper
60	F Goalie

Query 2

Write a query that adds another column to your previous query which shows the county name in UPPERCASE.

If you do it right then the results should look like.

emp_no	name	county
10	A Brick	SURREY
20	B Custard	HAMPSHIRE
30	C Digger	HAMPSHIRE
40	D Ernst	LONDON
50	E Flipper	SURREY
60	F Goalie	SURREY

Query 3

Write a query that lists the year, month and day of month of each sale (from the sale table).

If you do it right then the results should look like the following:

order_no	order_year	order_moth	order_day
100	2000	6	24
200	2000	5	1
300	2000	7	14
400	2000	8	9
500	2000	7	23
600	2000	5	23
700	2000	1	23
800	2000	12	15



Query 4

Write a query to return a new calculated sales_target for each department. The new sales_target to calculate will be increased by 63.8%.

dept_no	new_target
1	8.1900000
2	24.5700000
3	40.9500000
4	8.1900000
5	73.7100000

Query 5

Amend this query so that the target is **rounded** to one decimal place. Before doing this – write down what you think the answers will be.

If you do it right then the results should look like the following:

dept_no	new_target
1	8.2000000
2	24.6000000
3	41.0000000
4	8.2000000
5	73.7000000

Query 6

Amend this query so that the target is **rounded** to no decimal places. Before doing this – write down what you think the answers will be.

If you do it right then the results should look like the following:

dept_no	new_target
1	8.0000000
2	25.0000000
3	41.0000000
4	8.0000000
5	74.0000000



Query 7

Amend this query so that the target is **displayed** with no decimal places and no rounding. Before doing this – write down what you think the answers will be.

If you do it right then the results should look like the following:

dept_no	new_target
1	8
2	24
3	40
4	8
5	73