



Practical Activity 6

Functions, group queries and search conditions (12 marks)

Important Notes:

- Make use that you log into the PC as **.user**
- Make sure that you log in SQL Server Management Studio under “Windows Authentication” mode
- All homework should be uploaded to ClickUP before the designated cutoff time.
- Homework is marked in class - SQL scripts are what is marked
- Scripts which run and perform what they are supposed to do get full marks
- Scripts which do not run will be marked on their own merit.
- For additional assistance, please refer to <https://www.w3schools.com/sql/>

CONTEXT:

The practical exercise is based on the GotchaSystems database. Download the **GotchaSystems.sql** database script from ClickUP and then run the **GotchaSystems.sql** script to create and populate the database.

Queries – GotchaSystems

1. Write a query to show a list of all the members names and surnames in one column called 'Members' using the **CONCAT** function. **N.B** There must be a space between the name and surname

[1]

	Members
1	Naeem Ismail
2	Hiten Naran
3	Kaushal Jethva
4	Dean Johnson

2. Write a query to show order number, supplier invoice number and the total price of the supplier order. N.B Please add the 'R' in the 'Total Price' records. The output should be as follows:

[4]

	Order_Number	Supplier_Invoice_Number	Total Price
1	1	1	R6891.62
2	2	2	R1206.18
3	3	3	R2689.20
4	4	4	R5171.62
5	6	5	R1136.12
6	6	6	R1136.12
7	5	7	R516.65
8	7	8	R26000.00
9	7	9	R26000.00

3. Write a query to show employees name, surname, commencement date (in words). Order by the month of the employees commencement date.

[4]

	Employee_Name	Employee_Surname	Commencement Date
1	Jacques	Cloete	2 January 2004
2	Johan	Stapelberg	10 January 2004
3	Christopher	Mertz	1 February 2004
4	Joseph	De Klerk	20 March 2004
5	Jacob	Nkosi	20 July 2005
6	Phillippe	De Souza	12 August 2010
7	Monickh	Mostart	5 September 2006
8	Jan	Hendrik	1 September 2011
9	Paul	Daniels	2 September 2011

4. Write a query to show a list employees over the age of 40 with their names and surnames, date of birth which can be extracted from the **employee ID number**, lastly calculate the 'Age' of the employee using the first 6 **digits** of the employees ID number. Order by the employee name.

[3]

	Employee_Name	Employee_Surname	DOB	Age
1	Christopher	Mertz	790422	44
2	Jacob	Nkosi	810222	42
3	Jacques	Cloete	810222	42
4	Jan	Hendrik	610430	62
5	Johan	Stapelberg	821222	41
6	Monickh	Mostart	771003	46
7	Phillippe	De Souza	800516	43

TOTAL [12]



RUBRIC

Practical Activity 6

(____ / 12 marks)

Student NR	Surname	Initials

MARK ALLOCATED FOR	OBTAINED	MAX
--------------------	----------	-----

1	Query using Concat Function		1
2	Query that shows order number, supplier order number and the total price of the supplier order.		4
3	Query that shows employees name and the commencement date (in words). Ordered by the month of the employees commencement date		4
4	Query that shows the employees over the age of 40 and uses the ID number to calculate age		3

TOTAL		12
-------	--	----