



Practical Activity 5

Multi-Table Queries (16 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 Daspoort Clinic 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. Show all the suppliers who have supplied the company with 2 or more products per order number. Display the suppliers name(company), supplier representative name and surname in one column, order number and lastly the number of products supplied in that order with the column name as 'Products'. **N.B** When referring to the Order table, place the table name in square brackets because SQL order as a system operator so it will give errors. i.e. **[Order]**.

[8]

Query result

	Supplier_Name	Supplier Representative	Order_Number	Products
1	Airsoft Rangers	Larry White	4	3
2	Fox & Hound CC	Joost Botes	5	2
3	Midrand Wholesalers	Jack Phillips	6	4
4	Modor Guns CC	Dominick Peterson	1	2
5	Paintball Cash & Carry	Kagiso Mashilwane	3	2
6	Sharpshooters Pty(Ltd)	Hendrick Pienaar	2	3

2. Show all payment types, the total amount received from that payment type as 'Total received' and the number of payments made with that payment type. Sort the results by the payment description in descending order of the total received. Make use of the **right outer join** which result in the **NULL** attributes under the total received column as some of the payment types were not used, use the **ISNULL** method to replace the **NULL** with '0'. **HINT:** use the **SUM** function wrapped in the **ISNULL** function.

[8]

Query result

	Payment_Type_Description	Total received	No. of payments
1	CreditCard	1506.18	3
2	Debit Card	450.00	3
3	Cash	200.00	1
4	Cheque	0.00	0
5	EFT	0.00	0

TOTAL [16]



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Practical Activity 5

(____ / 16 marks)

Student NR	Surname	Initials

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1	Show all the suppliers who have supplied the company with 2 or more products per order number.		8
2	Show all payment types, the total amount received from that payment type as 'Total received' and the number of payments made with that payment type. Sort the results by the payment description in descending order of the total received using a right outer join and an ISNULL, SUM and count functions.		8

	TOTAL		16
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