Practical Activity 4

Multi-Table Queries (14 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. Use a left outer join to show all stock items regardless of whether a stock item has been written off. If a stock item has been written off, show the Stock write off date, stock write off quantity, stock write off reason. **[4]**

Query Result

	Stock_Item_Name	Stock_Write_Off_Date	Stock_Write_Off_Quantity	Stock_Write_Off_Reason
1	Multi Coloured Paintballs	2011-09-05 16:25:38.813	200	Damaged
2	Multi Coloured Paintballs	2011-10-03 16:25:38.813	60	Damaged
3	Multi Coloured Paintballs	2011-11-08 16:25:38.813	3000	Incorrect Colour
4	Multi Coloured Paintballs	2012-01-01 16:25:38.813	506	Moisture Loss
5	123 Shooter ASD	NULL	NULL	NULL
6	Blaster RTY 566	2011-09-03 16:25:38.813	2	Faulty Trigger
7	Killer 566 UIO	NULL	NULL	NULL
8	Barretta 345	NULL	NULL	NULL
9	M Guard 300	NULL	NULL	NULL
10	Protect 9000	2011-11-16 16:25:38.813	1	Bluetooth Connectivity Poor
11	Cheap Pluggy	NULL	NULL	NULL

2. Use a right outer join to all suppliers with their title description. Do not show title descriptions that have not been assigned to a supplier. Display the results under one column named 'Supplier Representatives' **[4]**

	Supplier Representatives
1	Mr. Dominick Peterson
2	Mr. Hendrick Pienaar
3	Mr. Kagiso Mashilwane
4	Mr. Larry White
5	Mr. Joost Botes
6	Mrs. Jack Phillips
7	Mr. Justin Peach
8	Ms. Peter Welch
9	Rev. Camy Steyn
10	Mr. Greg White

3. Use an inner join to show booking numbers, booking calendar dates, booking session time and lastly the booking session guests attending. The booking session time column contains the date and time which is ambiguous so using a convert method remove the 'date part' from the attribute and name it as 'Time'. Display only the confirmed booking records **HINT:** the booking status for 'confirmed' is '1'. **N.B** Google is your friend for the conversion **[6]**

Query Result

	Booking_Number	Booking_Calendar_Date	Time	Booking_Session_Guests_Attending
1	1002	2011-09-03 00:00:00.000	14:30:00.0000000	130
2	1003	2011-09-05 00:00:00.000	11:30:00.0000000	70
3	1005	2011-09-10 00:00:00.000	08:30:00.0000000	55
4	1006	2011-09-10 00:00:00.000	14:30:00.0000000	50
5	1007	2011-09-10 00:00:00.000	11:30:00.0000000	95
6	1008	2011-09-12 00:00:00.000	08:30:00.0000000	20
7	1009	2011-09-12 00:00:00.000	11:30:00.0000000	100
8	1010	2011-09-12 00:00:00.000	14:30:00.0000000	50
9	1011	2011-09-13 00:00:00.000	08:30:00.0000000	55
10	1012	2011-09-13 00:00:00.000	11:30:00.0000000	55
11	1013	2011-09-13 00:00:00.000	14:30:00.0000000	80
12	1014	2011-09-14 00:00:00.000	08:30:00.0000000	80
13	1015	2011-09-10 00:00:00.000	11:30:00.0000000	95
14	1016	2011-09-14 00:00:00.000	11:30:00.0000000	125
15	1017	2011-09-14 00:00:00.000	14:30:00.0000000	20
16	1018	2011-09-15 00:00:00.000	08:30:00.0000000	80
17	1019	2011-09-16 00:00:00.000	11:30:00.0000000	65
18	1020	2011-09-15 00:00:00.000	14:30:00.0000000	150

TOTAL [14]

RUBRIC
Practical Activity 4
(____ / 14 marks)

Student NR	Surname	Initials

MARK ALLOCATED FOR		OBTAINED	MAX
1	Left Outer Join		**4**
2	Right Outer Join		**4**
3	Inner Join, convert and where operator		**6**

	TOTAL		14