Practical Activity 9

Revision (20 marks)

Information Systems

Important Notes:

- 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 DaspoortClinic. Download the **DaspoortClinic.sql** database script from ClickUP and then run the **DaspoortClinic.sql** script to create and populate the database.

No new theory will be presented. From this activity onwards students will only be completing activities and tasks of increasing complexity.

Queries – DaspoortClinic.sql

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1. Write a query to show all the consultations that took place in 2012. Order the results by the consultation date. **[3]**
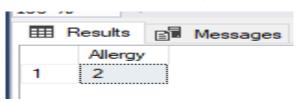
QUERY RESULT: Please note that the first few columns are not displayed in the results below as you can just check the con_consult_date to see if the order by worked and is correct.!

	_Hist_HeartRate	Con_Hist_Waist	Con_Hist_BloodPressure	Con_Hist_BloodGlucose	Con_Hist_Oedema	Con_Hist_EpilepsyBloods	Con_Consult_Date	Con_Note	User_ID	Patient_No
1		32	60	0	N/A	0	02-02-2012 11:48 AM	N/A	2	1200001
2		34	63	0	N/A	0	09-06-2012 11:48 AM	N/A	2	1200002
3		41	70	0	N/A	0	19-06-2012 3:12 PM	N/A	2	1200009
4		30	67	0	N/A	0	12-12-2012 1:32 PM	N/A	2	1200007

2. Write a query to show the number of patients who are allergic to 'local anesthetic'. Name the column 'Allergy'. **[3]**

QUERY RESULT:

	Allergy
1	2

3. Write a query to show all instances of the Audit Log where the user inserted data into the system. Display the User name and surname in one column, audit log date and lastly Audit log Description. **[4]**

QUERY RESULT:

	User	LogDate	Description
1	Kagisho Shai	1899-12-30 01:09:00.000	Insert New Disease No. 5
2	Hogan Prince	1899-12-30 01:05:00.000	Insert New Injury No. 3
3	Hogan Prince	1899-12-30 00:57:00.000	Insert New Injury No. 7
4	Hogan Prince	1899-12-30 00:57:00.000	Insert New Consultation No. 1
5	Hogan Prince	1899-12-30 00:57:00.000	Insert New Consultation No. 2
6	Kagisho Shai	1899-12-30 00:57:00.000	Insert New Medication No. 2
7	Hogan Prince	1899-12-30 00:57:00.000	Insert New Medication No. 4

4. Write a query to show all the consultations which had a patients consultation weight greater than the Average patient consultation weight. Display the Consultation number and consultation weight. **[4]**

QUERY RESULT:

	Consult_No	Con_Weight
1	4	88
2	6	76
3	7	77

5. Using a Select **Case** statement, display the Condition ID, condition name and chronic boolean. For the chronic boolean, whenever the Con_Chronic boolean is 'true' - display 'Chronic'. When the Con_Chronic boolean is 'false' - display 'Acute'. See results below: **[6]**

	Con_ID	Con_Name	Con_Chronic
1	1	Chronic kidney disease	Chronic
2	2	Broken tibia	Acute
3	3	Pregnant	Acute
4	4	Asthma	Chronic
5	5	Diabetes mellitus type 1, in adults	Acute
6	6	Fever	Acute
7	7	Stroke	Acute
8	8	Malaria	Acute

TOTAL **[20]**

RUBRIC
Practical Activity 9
(____ / 20 marks)

Student NR	Surname	Initials

MARK ALLOCATED FOR		OBTAINED	MAX
1	Query to show all the consultations that took place in 2012 and ordered by consultation date		3
2	Query to show the number of patients who are allergic to 'local anesthetic'		3
3	Query to show all instances of the Audit Log where the user inserted data into the system.		4
4	Query to show all the consultations which had a patients consultation weight greater than the Average patient consultation weight		4
5	Select **Case** statement, For the chronic boolean, whenever the Con_Chronic boolean is 'true' - display 'Chronic' and for false it must display 'Acute'		6

	TOTAL		20