Module ICT3715

Year 2020

INFORMATION AND COMMUNICATION TECHNOLOGY

ASSIGNMENT 2

DUE DATE: 30 APRIL 2020

STUDENT NUMBER (Student completes)									
5	8	2	3		1	6	7		6

IDENTITY NUMBER (Student completes)												
9	6	0	9	1	3	5	2	6	7	0	8	5

No handwritten assignments will be accepted.

INSTRUCTIONS:

Instructions for the student:

Complete this front page (page 1).

Complete the Plagiarism Pledge (page 3). Your assignment will not be assessed without this.

After you've completed the front page with your information, the plagiarism pledge and section A, save the document as a PDF. Keep a copy of the original should there be problem with the upload.

Instructions for the marker:

Marker indicate the marks obtained by the student for each component of the assignment on page 2. Refer to the Criteria Document that you've received for the detailed description and requirement for each component. Comments are made in the document itself and/or page 2.

System component (Marker completes)	Marks Markers		
			Comments From Marker
	Max	Stud	
SECTION A Exporting and importing of data [20 marks]			
Exporting and importing of data from spreadsheets to tables. (Refer to Section A in the Assignment and follow the process. You are required to export the database, tables and imported data to a SQL file. Combine the SQL file with this document (in PDF) format and ZIP it together as one file)	20		
SECTION B – Creating of Reports [30 marks]			
Day-to-day Report 1 Unpaid Invoices	5		
Day-to-day Report 2 Birthdays	5		
Day-to-day Report 3 Supplements below stock level	5		
MIS Report 1 Top 10 clients (frequency)	5		
MIS Report 2 Month report	5		
MIS Report 3 Client Contact report	5		
MARKER (SIGNATURE)			

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1. I have read Unisa's plagiarism policy.

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7. All academic work, written or otherwise, that I submit is expected to be the result of my own skill and labour.

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9. The marker has the right to refuse to assess the assignment and the system if plagiarism is detected.

Student name and Surname: John-Jacques Malan

Student number: 58231676

Student signature:

Date: 14/04/2020

SECTION A

Please see the attached SQL-file as requested.

SECTION B

Day-to-day Report 1   Unpaid Invoices

SQL:

SELECT tblClientInfo.Client_id AS "CLIENT ID", tblClientInfo.C_name||tblClientInfo.C_surname AS "CLIENT", tblInv_Info.Inv_Num AS "INVOICE NUMBER", tblInv_Info.Inv_date AS "INVOICE DATE"

FROM tblClientInfo, tblInv_Info

WHERE tblClientInfo.Client_id = tblInv_Info.Client_id AND tblInv_Info.Inv_Paid != 'Y' OR tblClientInfo.Client_id = tblInv_Info.Client_id AND tblInv_Info.Inv_Paid IS NULL AND tblInv_Info.Inv_date < '12/31/2019'

ORDER BY tblInv_Info.Inv_date;

Day-to-day Report 1   Unpaid Invoices

Report (complete – all the data returned by your SQL must be displayed. Either make a screen dump or copy and paste from the query results)

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☑ Autocommit   Rows [100 ▼] ✎ ✐   (Save) (Run)

```
SELECT tblClientInfo.Client_id AS "CLIENT ID", tblClientInfo.C_name||tblClientInfo.C_surname AS "CLIENT",
tblInv_Info.Inv_Num AS "INVOICE NUMBER", tblInv_Info.Inv_date AS "INVOICE DATE"
FROM tblClientInfo, tblInv_Info
WHERE tblClientInfo.Client_id = tblInv_Info.Client_id AND tblInv_Info.Inv_Paid != 'Y' OR
tblClientInfo.Client_id = tblInv_Info.Client_id AND tblInv_Info.Inv_Paid IS NULL AND tblInv_Info.Inv_date < '12/31/2019'
ORDER BY tblInv_Info.Inv_date;
```
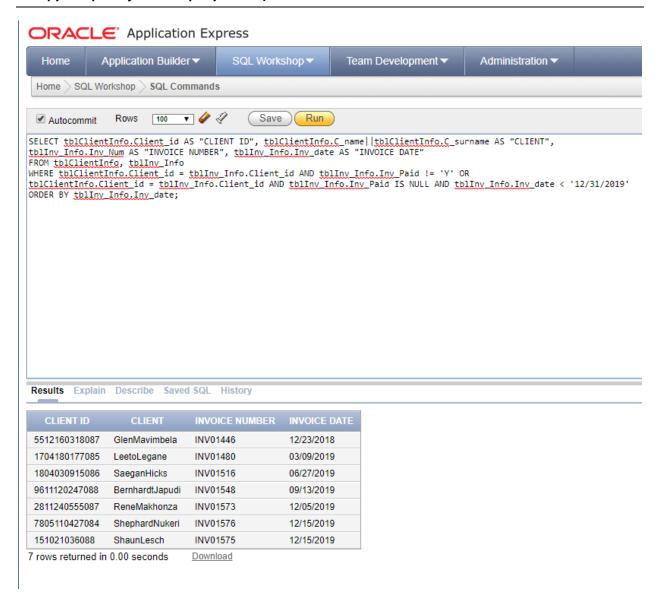
Results Explain Describe Saved SQL History

CLIENT ID	CLIENT	INVOICE NUMBER	INVOICE DATE
5512160318087	GlenMavimbela	INV01446	12/23/2018
1704180177085	LeetoLegane	INV01480	03/09/2019
1804030915086	SaeganHicks	INV01516	06/27/2019
9611120247088	BernhardtJapudi	INV01548	09/13/2019
2811240555087	ReneMakhonza	INV01573	12/05/2019
7805110427084	ShephardNukeri	INV01576	12/15/2019
151021036088	ShaunLesch	INV01575	12/15/2019

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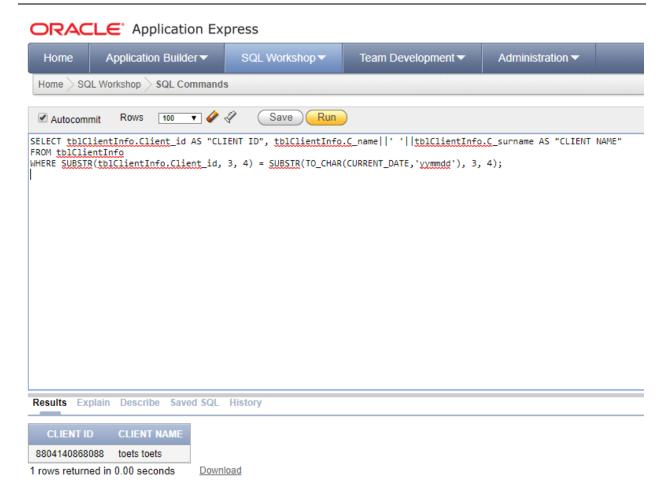***Day-to-day Report 2   Birthdays***

SQL:

SELECT tblClientInfo.Client_id AS "CLIENT ID", tblClientInfo.C_name||' '||tblClientInfo.C_surname AS "CLIENT NAME"

FROM tblClientInfo

WHERE SUBSTR(tblClientInfo.Client_id, 3, 4) = SUBSTR(TO_CHAR(CURRENT_DATE,'yymmdd'), 3, 4);

Day-to-day Report 2   Birthdays

Day-to-day Report 2   Birthdays

Report (complete – all the data returned by your SQL must be displayed. Either make a screen dump or copy and paste from the query results)

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☑ Autocommit   Rows [100 ▼] 🖍 ✎   (Save) (Run)

```
SELECT tblClientInfo.Client_id AS "CLIENT ID", tblClientInfo.C_name||' '||tblClientInfo.C_surname AS "CLIENT NAME"
FROM tblClientInfo
WHERE SUBSTR(tblClientInfo.Client_id, 3, 4) = SUBSTR(TO_CHAR(CURRENT_DATE,'yymmdd'), 3, 4);
```

Results Explain Describe Saved SQL History

CLIENT ID	CLIENT NAME
8804140868088	toets toets

1 rows returned in 0.00 seconds   Download

Day-to-day Report 3   Supplements below stock level

SQL

SELECT tblSupplements.Supplement_id AS "Supplement",
tblSupplier_Info.Supplier_ID||' '||tblSupplier_Info.Contact_Person||' '||tblSupplier_Info.Supplier_Tel
AS "Supplier Information",
tblSupplements.Min_levels AS "Min Levels", tblSupplements.Current_stock_levels AS "Current Stock"
FROM tblSupplements, tblSupplier_Info
WHERE tblSupplier_Info.Supplier_ID = tblSupplements.Supplier_ID AND tblSupplements.Min_levels >
tblSupplements.Current_stock_levels
ORDER BY tblSupplier_Info.Supplier_ID;

Day-to-day Report 3   Supplements below stock level

Day-to-day Report 3   Supplements below stock level

Report (complete – all the data returned by your SQL must be displayed. Either make a screen dump or copy and paste from the query results)

Results   Explain   Describe   Saved SQL   History

Supplement	Supplier Information	Min Levels	Current Stock
Supplement-34	SUPPLIER A John Adams (011)-(863)-(0056)	6	3
Supplement-35	SUPPLIER A John Adams (011)-(863)-(0056)	10	4
Supplement-71	SUPPLIER A John Adams (011)-(863)-(0056)	5	3
Supplement-91	SUPPLIER A John Adams (011)-(863)-(0056)	6	3
Supplement-66	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	2	1
Supplement-186	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	5	4
Supplement-153	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	5	3
Supplement-143	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	10	5
Supplement-118	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	7	6
Supplement-108	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	6	1
Supplement-82	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	10	7
Supplement-46	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	10	3
Supplement-45	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	9	2
Supplement-5	SUPPLIER B Mary Nkosi (011)-(894)-(9004)	8	1
Supplement-40	SUPPLIER C Ben Brandt (012)-(456)-(2345)	10	5
Supplement-37	SUPPLIER C Ben Brandt (012)-(456)-(2345)	8	2
Supplement-10	SUPPLIER C Ben Brandt (012)-(456)-(2345)	4	2
Supplement-222	SUPPLIER G Matthew Nel (082)-(820)-(5123)	8	6
Supplement-96	SUPPLIER G Matthew Nel (082)-(820)-(5123)	10	6
Supplement-193	SUPPLIER G Matthew Nel (082)-(820)-(5123)	10	2
Supplement-109	SUPPLIER G Matthew Nel (082)-(820)-(5123)	6	3
Supplement-227	SUPPLIER G Matthew Nel (082)-(820)-(5123)	10	9
Supplement-207	SUPPLIER G Matthew Nel (082)-(820)-(5123)	4	1
Supplement-107	SUPPLIER G Matthew Nel (082)-(820)-(5123)	9	6
Supplement-124	SUPPLIER G Matthew Nel (082)-(820)-(5123)	8	5
Supplement-151	SUPPLIER H Frank Moepa (031)-(089)-(5612)	9	4
Supplement-180	SUPPLIER H Frank Moepa (031)-(089)-(5612)	6	4
Supplement-195	SUPPLIER I Mary Seopa (015)-(876)-(1234)	10	7
Supplement-217	SUPPLIER I Mary Seopa (015)-(876)-(1234)	8	5

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MIS Report 1   Top 10 clients (frequency)

SQL

SELECT DISTINCT TblClientInfo.Client_id||' '||TblClientInfo.C_name||' '||TblClientInfo.C_surname AS
"Client",COUNT(tblInv_Info.Client_id) AS "Frequency"
FROM TblClientInfo, tblInv_Info
WHERE TblClientInfo.Client_id = tblInv_Info.Client_id
GROUP BY tblInv_Info.Client_id, TblClientInfo.Client_id, TblClientInfo.C_name, TblClientInfo.C_surname
ORDER BY "Frequency" DESC;

MIS Report 1   Top 10 clients (frequency)

MIS Report 1   Top 10 clients (frequency)

Report (complete – all the data returned by your SQL must be displayed. Either make a screen dump or copy and paste from the query results)

Results   Explain   Describe   Saved SQL   History

Client	Frequency
491010022086 Kivan Dambuza	10
8610120779086 Promise Mdluli	10
1709280678088 Stephan Nyalungu	9
2007100717086 Warren Piroe	8
2706070629087 Victor Mgidi	8
3708100193088 Piet Mokgothu	8
8101060996085 Nkosinathi Laka	8
9503010970083 Dolly Mogano	8
9706130545082 Josaya Chauke	8
1011160807087 Donavan Mthunywa	7
More than 10 rows available. Increase rows selector to view more rows.	

10 rows returned in 0.00 seconds   Download

MIS Report 2　　Month Report

SQL

SELECT COUNT(tblInv_Info.Inv_Date) AS "NUM OF PURCHASES",
SUBSTR(TO_CHAR(tblInv_Info.Inv_Date,'yyMONTHdd'), 3, 3) AS "MONTH"
FROM tblInv_Info
GROUP BY SUBSTR(TO_CHAR(tblInv_Info.Inv_Date,'yyMONTHdd'), 3, 3)
ORDER BY "NUM OF PURCHASES" DESC;

MIS Report 2　　Month Report

MIS Report 2   Month Report

Report (complete – all the data returned by your SQL must be displayed. Either make a screen dump or copy and paste from the query results)

NUM OF PURCHASES	MONTH
143	JUL
142	SEP
138	MAY
137	FEB
136	NOV
135	APR
130	MAR
128	JUN
125	OCT
125	AUG
125	DEC
125	JAN

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MIS Report 3   Client Contact Report

SQL

SELECT TblClientInfo.Client_id AS "CLIENT", TblClientInfo.C_Tel_H AS "HOME", TblClientInfo.C_Tel_W AS "WORK", TblClientInfo.C_Tell_Cell AS "CELL", TblClientInfo.C_Email AS "E-MAIL"
FROM TblClientInfo
WHERE TblClientInfo.C_Tell_Cell IS NULL AND TblClientInfo.C_Email IS NULL
ORDER BY TblClientInfo.Client_id;

MIS Report 3   Client Contact Report

Report (complete – all the data returned by your SQL must be displayed. Either make a screen dump or copy and paste from the query results)

Results   Explain   Describe   Saved SQL   History

CLIENT	HOME	WORK	CELL	E-MAIL
2804070757085	(040)-(139)-(2394)	(082)-(568)-(0086)	-	-
4512220543086	(081)-(523)-(3053)	(067)-(698)-(6859)	-	-
510523033088	(028)-(662)-(6165)	(017)-(982)-(2477)	-	-
5608010370088	(015)-(632)-(5114)	(048)-(474)-(2514)	-	-
7902150410084	(012)-(377)-(3292)	(041)-(193)-(6531)	-	-
9210160769082	(089)-(394)-(7495)	(025)-(803)-(4678)	-	-

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