Te Hoe Rorohiko

Department of Business and Digital Technologies

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New Zealand Diploma in Information Technology Technical Support (Level 5) New Zealand Diploma in Web Development and Design (Level 5)

Database Design

DTEC502

Practical Assessment – SQL Test

Semester 1 2021

Date: **Friday, 11th June 2021**

Time: **8.00am – 10.00am**

Time Allowed: 2 hours 00 minutes Students are encouraged to read through the exam in the first ten (10) minutes and ask any questions.

Instructions:

Answer **ALL** questions.

This is an **OPEN** resources test.

Students are allowed to use their **OWN** resources.

All required files located on the DTEC502 Moodle site under the “FINAL SQL Practical Tests” tab.

**TOTAL MARKS:** 50

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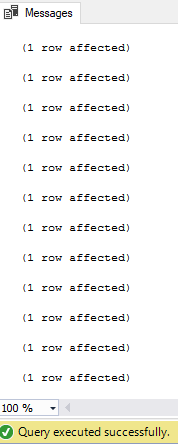
This test worth **25%** of the total marks for this course.

This assignment has eight (8) pages including the cover sheet.

--Q1

USE Clientorders

GO



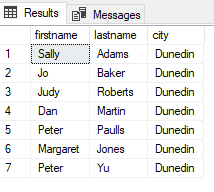
--Q2

SELECT [firstname], [lastname], [city]

FROM [dbo].[client]

WHERE [city]='DUNEDIN';

GO



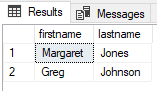
--Q3

SELECT [firstname], [lastname]

FROM [dbo].[client]

WHERE [lastname] LIKE 'J%';

GO



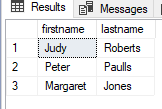
--Q4

SELECT [firstname], [lastname]

FROM [dbo].[client]

WHERE 50 <= [balance] AND [balance] <=150;

GO



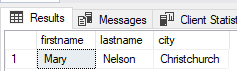
--Q5

SELECT [firstname], [lastname],[city]

FROM [dbo].[client]

WHERE [firstname]='Mary' AND [lastname]='Nelson';

GO



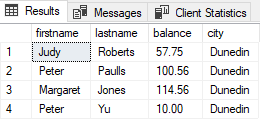
--Q6

SELECT [firstname], [lastname], [balance], [city]

FROM [dbo].[client]

WHERE [city]='DUNEDIN' AND [balance]<200;

GO

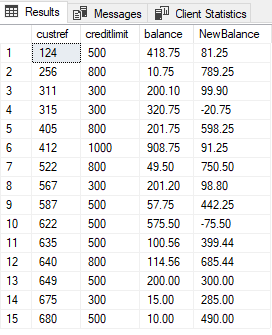


--Q7

SELECT [custref], [creditlimit], [balance], [creditlimit]-[balance] AS NewBalance

FROM [dbo].[client]

GO

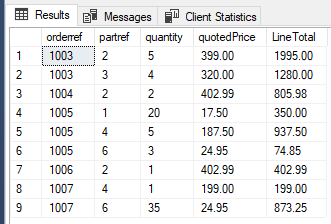


--Q8

SELECT [orderref], [partref], [quantity], [quotedPrice], [quantity]\*[quotedPrice] AS 'LineTotal'

FROM [dbo].[orderline]

GO



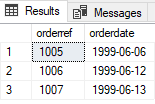
--Q9

SELECT [orderref], [orderdate]

FROM [dbo].[custorder]

WHERE [orderdate]>'1999-06-01';

GO



--Q10

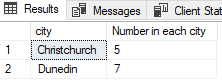
SELECT [city], COUNT([custref]) AS 'Number in each city'

FROM [dbo].[client]

GROUP BY [city]

HAVING COUNT([custref])>3;

GO



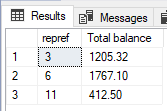
--Q11

SELECT [repref], SUM([balance]) AS 'Total balance'

FROM [dbo].[client]

GROUP BY [repref];

GO



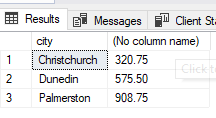
--Q12

SELECT [city], MAX([balance])

FROM [dbo].[client]

GROUP BY [city];

GO



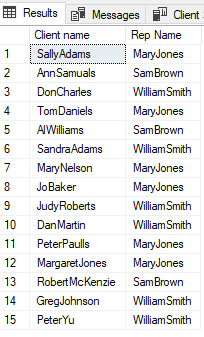
--Q13

SELECT [firstname]+[lastname] AS 'Client name', [RepFirstname]+[RepLastName] AS 'Rep Name'

FROM [dbo].[client],[dbo].[rep]

WHERE CLIENT.repref=REP.repref;

GO



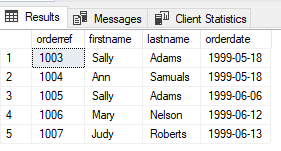
--Q14

SELECT [orderref], [firstname], [lastname], [orderdate]

FROM [dbo].[custorder], [dbo].[client]

WHERE custorder.custref=client.custref;

GO



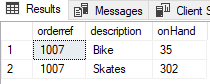
--Q15

SELECT [orderref], [description], [onHand]

FROM [dbo].[orderline], [dbo].[part]

WHERE orderline.partref=part.partref AND orderref='1007';

GO



--Q16

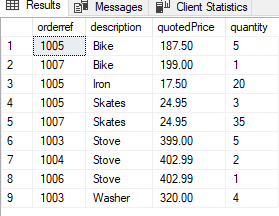
SELECT [orderref], [description],[quotedPrice],[quantity]

FROM [dbo].[orderline], [dbo].[part]

WHERE orderline.partref=part.partref

ORDER BY [description];

GO



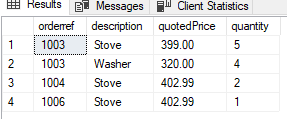
--Q17

SELECT [orderref], [description],[quotedPrice],[quantity]

FROM [dbo].[orderline], [dbo].[part]

WHERE orderline.partref=part.partref AND quotedPrice > 200

GO



--Q18

SELECT orderline.orderref,[firstname],[lastname],[description],[unitPrice]

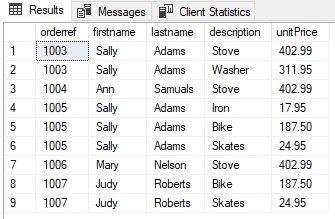
FROM [dbo].[custorder],[dbo].[client],[dbo].[part],[dbo].[orderline]

WHERE orderline.partref=part.partref

AND custorder.orderref=orderline.orderref

AND custorder.custref=client.custref;

GO



--Q19

SELECT orderline.orderref, [orderdate], [firstname],[lastname],[unitPrice]

FROM [dbo].[custorder],[dbo].[client],[dbo].[part], [dbo].[orderline]

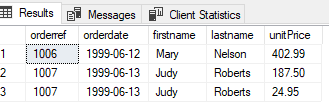
WHERE orderline.partref=part.partref

AND custorder.orderref=orderline.orderref

AND custorder.custref=client.custref

AND [orderdate] > '1999-06-10';

GO



--20

SELECT orderline.orderref, [orderdate], [firstname],[lastname],[RepFirstname],[RepLastName],[description]

FROM [dbo].[custorder],[dbo].[client],[dbo].[part], [dbo].[orderline],[dbo].[rep]

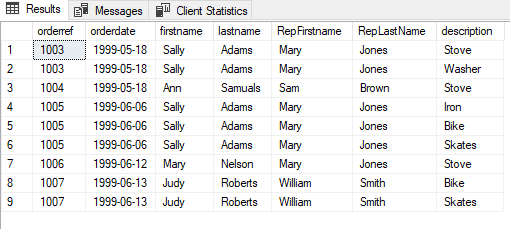
WHERE orderline.partref=part.partref

AND custorder.orderref=orderline.orderref

AND custorder.custref=client.custref

AND CLIENT.repref=REP.repref;

GO



--Q21

SELECT [RepFirstname]+' '+[RepLastName] AS 'Rep Name', SUM([balance]) AS 'Total Blance'

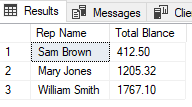
FROM [dbo].[rep],[dbo].[client]

WHERE CLIENT.repref=REP.repref

GROUP BY [RepFirstname]+' '+[RepLastName]

ORDER BY SUM([balance])

GO



--Q22

SELECT [orderref], SUM([quantity]\*[quotedPrice]) AS 'Total LineTotal'

FROM [dbo].[orderline]

GROUP BY [orderref]

GO

