Database Systems: Coursework 2

C1646151- Charles Read

**Q1)**

SQL> Select StockNo, Description, Quantity

2 From Stocks

3 Where Quantity > 25

4 Order by Quantity;

STOCKNO DESCRIPTION QUANTITY

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103 Photocopying paper 30

117 5.25 in. floppy disks 32

121 Tipp-ex bottles 35

107 Drawing pins 37

105 Sticky labels 45

SQL> spool off

**Q2)**

SQL> Select SuppCode, SuppName

2 From Suppliers

3 Where Town = 'Cardiff' OR Town = 'Swansea';

SUPP SUPPNAME

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S1 TKG Tools Ltd.

S2 I.T. Supplies (Wales)

SQL> Spool off

**Q3)**

SQL> Select \* From Suppliers

2 Where TelNo like '081%' OR Street like '%Road%';

SUPP SUPPNAME STREET TOWN COUNTY POSTCODE TELNO FAXNO

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S5 Legal Services Ltd. Westway Road London N8 8PA 081 333 1246 081 333 5490

S6 Business Systems Ltd. 155 Stradleigh Place London E10 6LL 081 535 3535 081 535 3355

SQL> spool off

**Q4)**

SQL> Select StoreCode, Count(StockNo) As "No of Items", Round(AVG(Price), 2) As "Average Price"

2 From Stocks

3 Group by StoreCode;

STOREC No of Items Average Price

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TYP 5 9.75

WORK 8 1.76

CENT 11 1.63

IT 4 15.54

LEG 6 5.34

SQL> spool off

**Q5)**

SQL> Select StoreCode From Stocks

2 Group by StoreCode

3 Having Count (Distinct SuppCode) >=3;

STOREC

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TYP

IT

CENT

LEG

SQL> spool off

**Q6)**

SQL> Select SuppName AS "Supplier Name",

2 Replace (Street||','||Town||','||County||','||PostCode,',,',',')

3 As "Supplier Address"

4 From Suppliers;

Supplier Name Supplier Address

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TKG Tools Ltd. 7 High Street,Swansea,SA7 2WG

Office Matters 20 Berrick Street,Bridgend,Mid Glam.,CF38 3BB

Legal Services Ltd. Westway Road,London,N8 8PA

I.T. Supplies (Wales) 3 Marlborough Ave.,Cardiff,CF1 1IT

Fastorder Stationers Riverside View,Newport,Gwent,NP1 7XJ

Business Systems Ltd. 155 Stradleigh Place,London,E10 6LL

6 rows selected.

SQL> spool off

**Q7)**

SQL> Select Distinct StoreCode From Stocks

2 Minus Select Distinct StoreCode

3 From Stocks StocksA, Suppliers

4 Where Suppliers.SuppCode = StocksA.SuppCode

5 And Suppliers.Town = 'Cardiff';

STOREC

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LEG

WORK

SQL> spool off

**Q8)**

SQL> Select StockNo, Description, Price

2 From Stocks Where StoreCode = 'LEG'

3 AND Price > (Select AVG(Price) From Stocks);

STOCKNO DESCRIPTION PRICE

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126 Sealing wax 7.99

127 Red binding ribbon 6.47

128 A3 cream notary paper 7.85

SQL> Spool Off

**Q9)**

SQL> Select S.StockNo, S.Description, Count(OrderNo) AS "Number of Orders"

2 From Stocks S, Orderitems O

3 Where S.StockNo = O.StockNo(+)

4 Group By S.StockNo, S.Description;

STOCKNO DESCRIPTION Number of Orders

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110 Large envelopes 0

116 3.5 in. floppy disks 1

118 Toner cartridges 0

106 Sellotape 1

107 Drawing pins 0

111 Black ballpoints 1

123 Audio cassettes 0

130 8 x 1 inch wood screws 0

134 Electrical solder 0

109 Window envelopes 0

126 Sealing wax 0

131 10 x 1 inch wood screws 0

135 White spirit 0

104 Coloured paper 0

132 13 amp electrical wire 0

139 Angle brackets 0

119 FX-100 printer ribbon 0

122 Typewriter ribbons 0

102 A4 headed paper 0

114 Fluorescent markers 0

117 5.25 in. floppy disks 1

124 Anti-static wipes 0

127 Red binding ribbon 0

128 A3 cream notary paper 0

137 Masking tape 0

138 Door hinges 0

103 Photocopying paper 0

129 Coloured ink 0

105 Sticky labels 0

108 Staples 1

112 Coloured pens 0

113 HB pencils 0

115 12 inch rulers 0

121 Tipp-ex bottles 0

34 rows selected.

SQL> spool off

**Q10)**

SQL> Select StoreCode, Description, Price

2 From Stocks

3 Join (Select Max(Price) As M From Stocks

4 Group by StoreCode) Max

5 On Stocks.Price = Max.M;

STOREC DESCRIPTION PRICE

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CENT A4 headed paper 4.11

IT Toner cartridges 32.99

TYP FX-100 printer ribbon 23.99

LEG Sealing wax 7.99

WORK 8 x 1 inch wood screws 2.85

WORK Angle brackets 2.85

6 rows selected.

SQL> spool off

**Q11)**

SQL> column StoreCode format A11 heading 'Store Code';

SQL> column Description format A23 heading 'Item Description';

SQL> column Price format $999999.99 heading 'Price';

SQL> column Quantity format 99999 heading 'Quantity';

SQL> column (Price\*Quantity) format $99999.99 heading 'Value';

SQL>

SQL> set pause off;

SQL> set feedback off;

SQL> set space 6;

SQL> set newpage 2;

SQL> set pagesize 100;

SQL> set linesize 100;

SQL> set underline =;

SQL>

SQL>

SQL> ttitle center 'Current Stock Value By Store' skip 2 center 'prepared by Charles Read' skip 2 center '10-Nov-2017' skip 2;

SQL> btitle center format 999 SQL.PNO;

SQL>

SQL> break on StoreCode skip 1 on Description skip 1 on Report;

SQL>

SQL> compute sum label 'Store Total' of (Price\*Quantity) on StoreCode;

SQL> compute sum label 'Grand Total' of (Price\*Quantity) on Report;

SQL>

SQL> Select StoreCode, Description, Price, Quantity, (Price\*Quantity)

2 From Stocks

3 Order by StoreCode, SuppCode;

Current Stock Value By Store

prepared by Charles Read

10-Nov-2017

Store Code Item Description Price Quantity Value

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CENT Photocopying paper $2.98 30 $89.40

A4 headed paper $4.11 17 $69.87

HB pencils $1.97 22 $43.34

Tipp-ex bottles $.81 35 $28.35

Fluorescent markers $1.89 2 $3.78

Black ballpoints $2.42 6 $14.52

Window envelopes $2.15 22 $47.30

12 inch rulers $.22 23 $5.06

Drawing pins $.47 37 $17.39

Sellotape $.45 21 $9.45

Staples $.42 11 $4.62

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Store Total $333.08

IT 5.25 in. floppy disks $11.38 32 $364.16

3.5 in. floppy disks $12.85 14 $179.90

Anti-static wipes $4.95 18 $89.10

Toner cartridges $32.99 7 $230.93

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Store Total $864.09

LEG Coloured pens $3.65 17 $62.05

Large envelopes $2.57 8 $20.56

Coloured ink $3.48 22 $76.56

A3 cream notary paper $7.85 21 $164.85

Red binding ribbon $6.47 13 $84.11

Sealing wax $7.99 9 $71.91

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Store Total $480.04

TYP Coloured paper $5.15 13 $66.95

Audio cassettes $8.58 8 $68.64

Typewriter ribbons $6.19 16 $99.04

Sticky labels $4.83 45 $217.35

FX-100 printer ribbon $23.99 25 $599.75

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Store Total $1051.73

WORK Door hinges $2.14 24 $51.36

Masking tape $.49 8 $3.92

White spirit $.98 6 $5.88

Electrical solder $1.59 11 $17.49

13 amp electrical wire $1.84 22 $40.48

10 x 1 inch wood screws $1.35 13 $17.55

8 x 1 inch wood screws $2.85 8 $22.80

Angle brackets $2.85 18 $51.30

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Store Total $210.78

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Grand Total $2939.72

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SQL> spool off