

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
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
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
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
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

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

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

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
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
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
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
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
*****	*****			-----
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
*****	*****			-----
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
*****	*****			-----
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
*****	*****			-----
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
*****	*****			-----

Store Total

\$210.78

Grand Total

\$2939.72

SQL> spool off