



Exercise Three

3.1 Using SQL created in ex2_3, output the Member names and titles in lowercase, order by oldest first (save as ex3_1.sql)

```
+-----+-----+-----+-----+
| Title | First Name | Surname   | Date of Birth |
+-----+-----+-----+-----+
| ms    | pat        | hunter    | 1917-09-19    |
| mr    | colin      | warren    | 1919-01-01    |
| mrs   | florence   | morrell   | 1919-11-14    |
| mr    | richard    | baker     | 1921-10-02    |
| mr    | paul       | morgan    | 1921-11-10    |
| mr    | david      | reece     | 1922-04-15    |
| mr    | keith      | western   | 1923-03-03    |
| ms    | deniece    | crawford | 1924-03-28    |
| mrs   | tracey     | peters    | 1925-10-15    |
| mrs   | pam        | green     | 1925-12-19    |
| mrs   | eunice     | ford      | 1926-01-11    |
| ms    | doris      | howard    | 1926-02-02    |
| mrs   | doreen     | barker    | 1926-02-24    |
| mr    | matthew    | johnson   | 1926-05-02    |
```



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3.2 MySQL does not have a function to convert string to 'capitalized' therefore using ex3_1, convert the output to have mixed case, this will require the use of the substr, ucase, lcase and concat functions (save as ex3_2.sql)

```
+-----+-----+-----+-----+
| Title | First Name | Surname   | Date of Birth |
+-----+-----+-----+-----+
| Ms    | Pat       | Hunter    | 1917-09-19    |
| Mr    | Colin    | Warren    | 1919-01-01    |
| Mrs   | Florence | Morrell   | 1919-11-14    |
| Mr    | Richard  | Baker     | 1921-10-02    |
| Mr    | Paul     | Morgan    | 1921-11-10    |
| Mr    | David    | Reece     | 1922-04-15    |
| Mr    | Keith    | Western   | 1923-03-03    |
| Ms    | Deniece  | Crawford  | 1924-03-28    |
| Mrs   | Tracey   | Peters    | 1925-10-15    |
| Mrs   | Pam      | Green     | 1925-12-19    |
| Mrs   | Eunice   | Ford      | 1926-01-11    |
```

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3.3 Return to ex2_7 and change to the following output (save as ex3_3.sql)

```
+-----+-----+-----+-----+-----+
| Stock Number | Order Date | Qty | Price | Value |
+-----+-----+-----+-----+-----+
|          1 | 09-Jan-2001 | 1 | £ 22.00 | £ 22.00 |
|          1 | 25-Jan-2001 | 1 | £ 13.00 | £ 13.00 |
|          1 | 25-Jan-2001 | 1 | £ 13.00 | £ 13.00 |
|          2 | 09-Jan-2001 | 3 | £ 11.00 | £ 33.00 |
|          3 | 12-Jan-2001 | 1 | £ 16.00 | £ 16.00 |
|          4 | 12-Jan-2001 | 5 | £ 2.00 | £ 10.00 |
|         13 | 02-Jan-2001 | 3 | £ 7.00 | £ 21.00 |
|         14 | 01-Jan-2001 | 1 | £ 80.00 | £ 80.00 |
|         15 | 01-Jan-2001 | 3 | £ 15.00 | £ 45.00 |
|         15 | 12-Jan-2001 | 1 | £ 15.00 | £ 15.00 |
|         17 | 13-Jan-2001 | 1 | £ 9.00 | £ 9.00 |
|         21 | 08-Jan-2001 | 1 | £ 5.00 | £ 5.00 |
|         23 | 08-Jan-2001 | 10 | £ 3.00 | £ 30.00 |
|         24 | 07-Jan-2001 | 1 | £ 17.00 | £ 17.00 |
|         25 | 04-Jan-2001 | 5 | £ 7.00 | £ 35.00 |
|         26 | 04-Jan-2001 | 10 | £ 7.00 | £ 70.00 |
+-----+-----+-----+-----+-----+
```

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3.4 Using the share_index table, produce the following output (save as ex3_4.sql)

```
+-----+-----+-----+-----+-----+
| Average   | Highest   | Lowest    | Earliest  | Latest    |
+-----+-----+-----+-----+-----+
| 5,561.3889 | 6,930.0000 | 3,287.0000 | 01-Jun-1998 | 24-Apr-2003 |
+-----+-----+-----+-----+-----+
```

3.5 Amend ex3_2.sql, concat the names together and calculate the date of their 60th birthday (save as ex3_5.sql)

```
+-----+-----+-----+
| Name                | Date of Birth | 60th        |
+-----+-----+-----+
| Ms Pat Hunter       | 19-Sep-1917   | 19-Sep-1977 |
| Mr Colin Warren     | 01-Jan-1919   | 01-Jan-1979 |
| Mrs Florence Morrell | 14-Nov-1919   | 14-Nov-1979 |
| Mr Richard Baker    | 02-Oct-1921   | 02-Oct-1981 |
| Mr Paul Morgan      | 10-Nov-1921   | 10-Nov-1981 |
| Mr David Reece      | 15-Apr-1922   | 15-Apr-1982 |
| Mr Keith Western    | 03-Mar-1923   | 03-Mar-1983 |
| Ms Deniece Crawford | 28-Mar-1924   | 28-Mar-1984 |
```

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If there is sufficient time ...

3.6 The record for a transatlantic crossing is 3 days, 15 hours, 25 minutes and 48 seconds.

Assuming a ship leaves New York on 25th June 2012 at 8:14:14 (local time), what time would the ship reach the Lizard if it is to equal the record (save as ex3_6.sql) ...

```
+-----+
| Record |
+-----+
| The ship started at 08:14:14 25-Jun-2012 and got to the Lizard at 23:40:02 28-Jun-2012 |
+-----+
```