SQL part 2. Advanced selection

1. Generate a login for each employee. Login should have following format: first two capital letters of employee surname plus employee identifier.

```
 surname  | emp_id | login
----------+--------+-------
 Bell     |    230 | BE230
 Clark    |    180 | CL180
 Edwards  |    160 | ED160
 Green    |    170 | GR170
 Jackson  |    210 | JA210
 Johnson  |    140 | JO140
 Jones    |    110 | JO110
 Lewis    |    190 | LE190
 Smith    |    100 | SM100
 White    |    150 | WH150
 Williams |    120 | WI120
 Wilson   |    130 | WI130
 Wood     |    200 | WO200
 Young    |    220 | YO220
```

2. Display the surname of employees who have letters "L" or "l" in their surnames.

```
 surname
----------
 Bell
 Clark
 Lewis
 Williams
 Wilson
```

3. Modify previous query and display the surnames of employees who have letters "L" or "l" in the first half of surname.

```
 surname
----------
 Clark
 Lewis
 Williams
 Wilson
```

4. Calculate employees' salaries increased by 15% and rounded.

```
 surname  | original_salary | increased_salary
----------+-----------------+------------------
 Bell     |         1850.00 |             2128
 Clark    |         2610.20 |             3002
 Edwards  |         1590.00 |             1829
 Green    |         1839.70 |             2116
 Jackson  |          900.00 |             1035
 Johnson  |         3230.00 |             3715
 Jones    |         3350.00 |             3853
 Lewis    |         1971.00 |             2267
 Smith    |         4730.00 |             5440
 White    |         2845.50 |             3272
 Williams |         3070.00 |             3531
 Wilson   |         3960.00 |             4554
 Wood     |          900.00 |             1035
 Young    |         1889.00 |             2172
```

5. Display current day's name.

```
 Today is
 -----------
 Tuesday
```

6. Display the name of the day on which you were born.

```
 I was born on
 ---------------
 Monday
```

7. Display hire dates of employees in a form shown below.

```
 surname   |            hire_date
 ----------+----------------------------
 Bell      | 1 September 1992, Tuesday
 Clark     | 20 February 1985, Wednesday
 Edwards   | 1 March 1985, Friday
 Green     | 1 October 1992, Thursday
 Jackson   | 15 October 1993, Friday
 Johnson   | 15 September 1975, Monday
 Jones     | 1 May 1973, Tuesday
 Lewis     | 1 September 1993, Wednesday
 Smith     | 1 January 1968, Monday
 White     | 1 September 1977, Thursday
 Williams  | 1 September 1977, Thursday
 Wilson    | 1 July 1968, Monday
 Wood      | 15 July 1994, Friday
 Young     | 1 October 1993, Friday
```

8. For each professor, lecturer and assistant calculate his or her work experience on January 1st, 2000. Sort the result by work experience in descending order (employees with longest experience at the beginning). If two or more employees have the same work experience, sort them by their surnames.

```
SURNAME          JOB                  EXPERIENCE_IN_2000
---------------  -------------------- ------------------
Wilson           PROFESSOR            +31-06
Jones            PROFESSOR            +26-08
Johnson          PROFESSOR            +24-04
White            LECTURER             +22-04
Williams         PROFESSOR            +22-04
Clark            LECTURER             +14-10
Bell             ASSISTANT            +07-04
Green            ASSISTANT            +07-03
Lewis            ASSISTANT            +06-04
Young            ASSISTANT            +06-03
```

9. Change previous query to display employees whose experience on January 1st, 2000, was longer than 10 years.

```
SURNAME          JOB                  EXPERIENCE_IN_2000
---------------  -------------------- ------------------
Wilson           PROFESSOR            +31-06
Jones            PROFESSOR            +26-08
Johnson          PROFESSOR            +24-04
White            LECTURER             +22-04
Williams         PROFESSOR            +22-04
Clark            LECTURER             +14-10
```

10. Get rid of months from result of previous query.

```
SURNAME          JOB                   EXPERIENCE_IN_2000
---------------  --------------------  ------------------
Wilson           PROFESSOR                             31
Jones            PROFESSOR                             26
Johnson          PROFESSOR                             24
White            LECTURER                              22
Williams         PROFESSOR                             22
Clark            LECTURER                              14
```

```
SURNAME          JOB                   EXPERIENCE_IN_2000
---------------  --------------------  ------------------
Wilson           PROFESSOR                             31
Jones            PROFESSOR                             26
Johnson          PROFESSOR                             24
White            LECTURER                              22
Williams         PROFESSOR                             22
Clark            LECTURER                              14
```