Islamic University of Gaza
Faculty of Engineering
Computer Department

Advanced DataBase ECOM 5054
Instructor: Eng. Husam Alzaq
T.A: Eng. Doaa KH. Abu Jabal

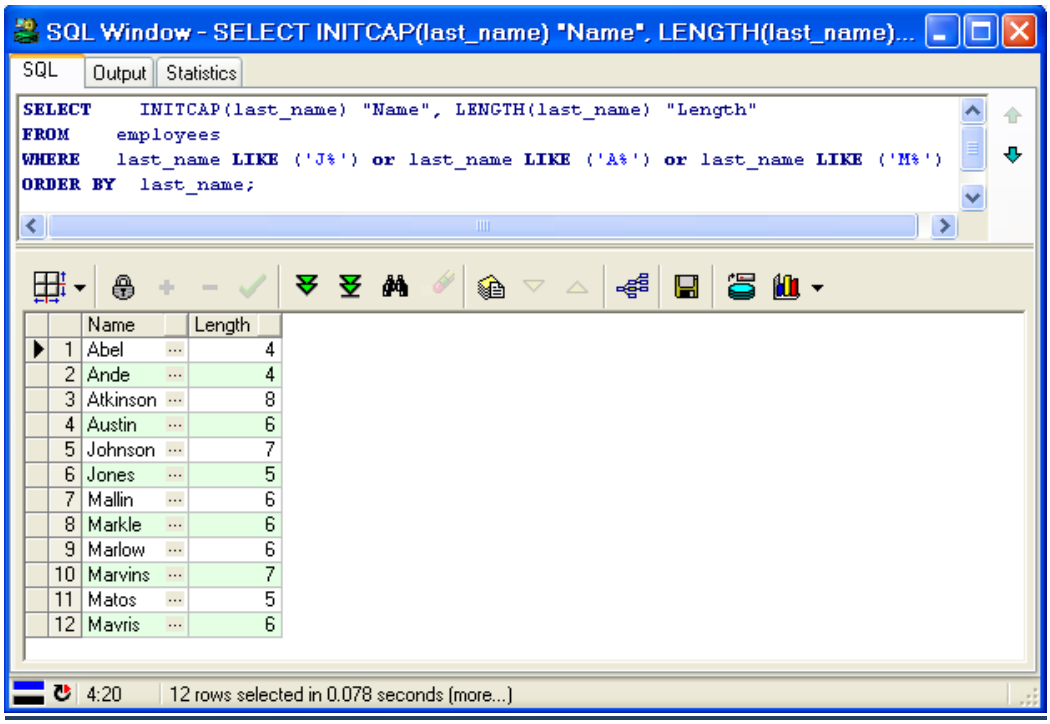
# Oracle LAB 5

# Part 1

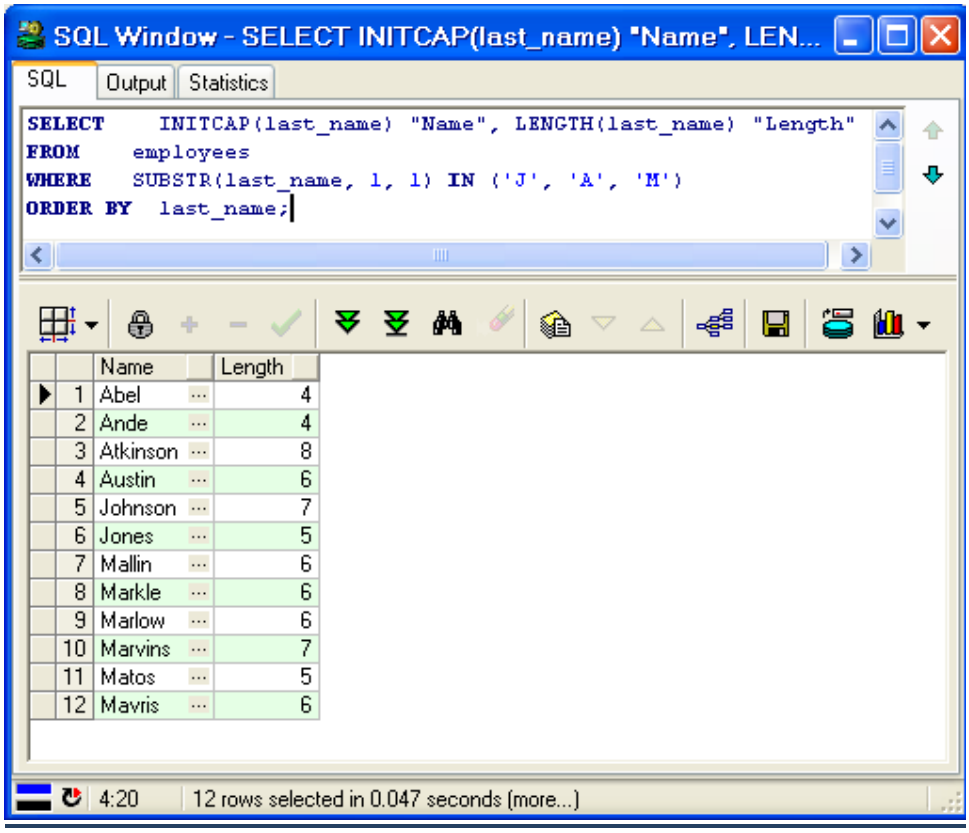
## *Exercise 1:*

A) Write a query that displays the last name (with the first letter uppercase and all other letters lowercase) and the length of the last name for all employees whose name starts with the letters *J, A,* or *M.* Give each column an appropriate label. Sort the results by the employees' last names.

## *The Result:*



***Or:***

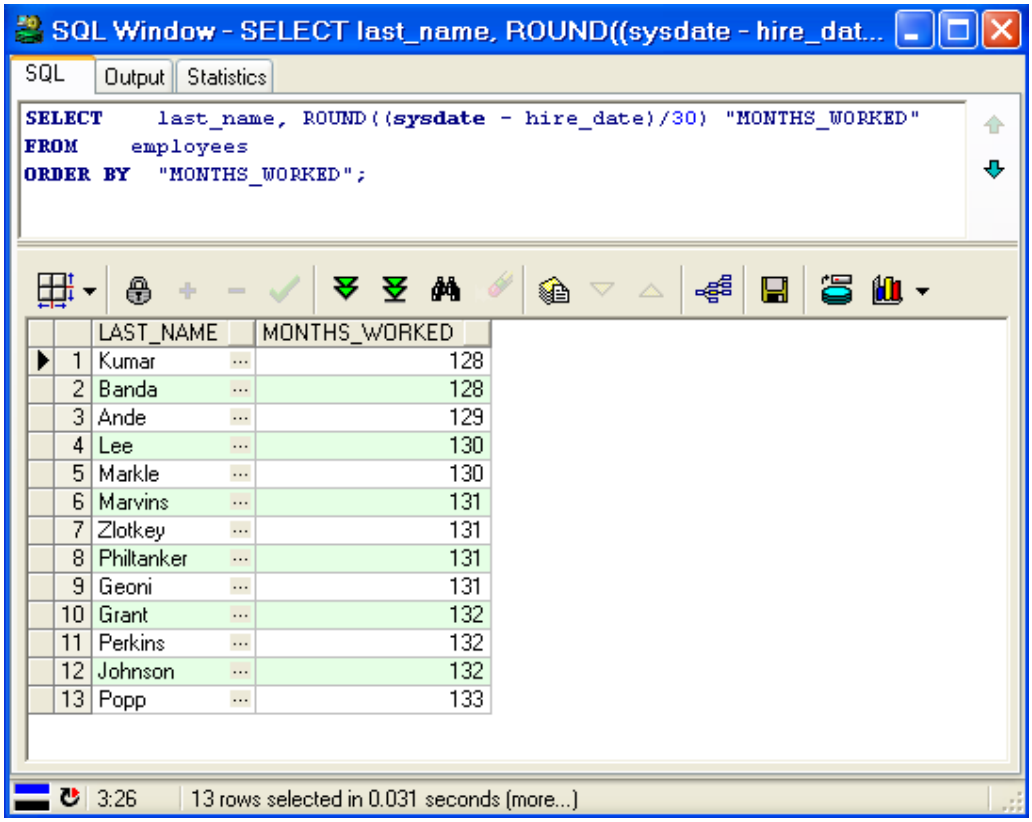



| | Name | Length |
|---|---|---|
| 1 | Abel | 4 |
| 2 | Ande | 4 |
| 3 | Atkinson | 8 |
| 4 | Austin | 6 |
| 5 | Johnson | 7 |
| 6 | Jones | 5 |
| 7 | Mallin | 6 |
| 8 | Markle | 6 |
| 9 | Marlow | 6 |
| 10 | Marvins | 7 |
| 11 | Matos | 5 |
| 12 | Mavris | 6 |

## *Exercise 2:*

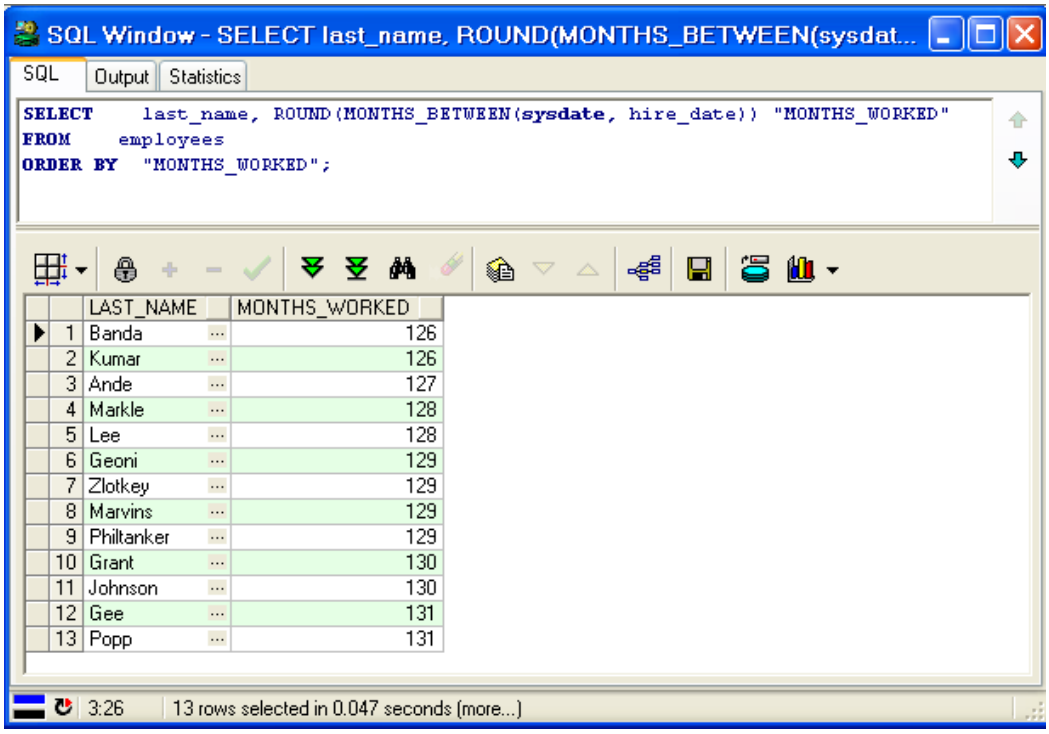
The HR department wants to find the length of employment for each employee. For each employee, display the last name and calculate the number of months between today and the date on which the employee was hired. Label the column `MONTHS_WORKED`. Order your results by the number of months employed. Round the number of months up to the closest whole number.

## *The Result:*




| | LAST_NAME | MONTHS_WORKED |
|---|---|---|
| 1 | Kumar | 128 |
| 2 | Banda | 128 |
| 3 | Ande | 129 |
| 4 | Lee | 130 |
| 5 | Markle | 130 |
| 6 | Marvins | 131 |
| 7 | Zlotkey | 131 |
| 8 | Philtanker | 131 |
| 9 | Geoni | 131 |
| 10 | Grant | 132 |
| 11 | Perkins | 132 |
| 12 | Johnson | 132 |
| 13 | Popp | 133 |

Or:




| | LAST_NAME | MONTHS_WORKED |
|---|---|---|
| 1 | Banda | 126 |
| 2 | Kumar | 126 |
| 3 | Ande | 127 |
| 4 | Markle | 128 |
| 5 | Lee | 128 |
| 6 | Geoni | 129 |
| 7 | Zlotkey | 129 |
| 8 | Marvins | 129 |
| 9 | Philtanker | 129 |
| 10 | Grant | 130 |
| 11 | Johnson | 130 |
| 12 | Gee | 131 |
| 13 | Popp | 131 |

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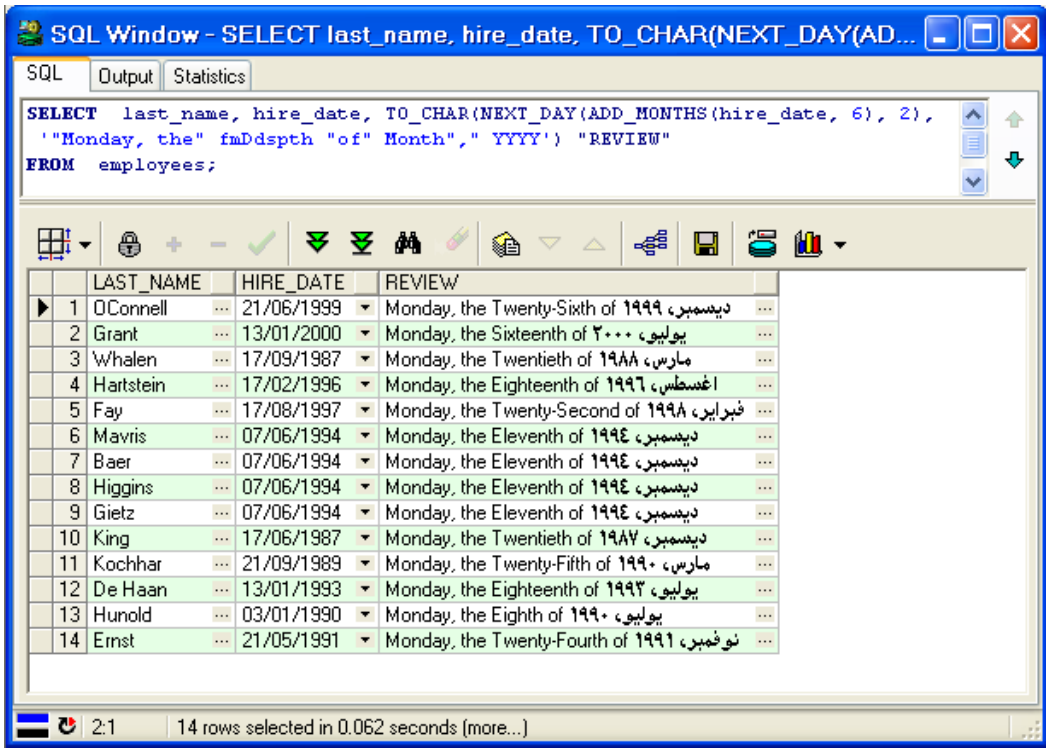
## *Exercise 3:*

Display each employee's last name, hire date, and salary review date, which is the first Monday after six months of service. Label the column `REVIEW`. Format the dates to appear in the format similar to "Monday, the Thirty-First of July, 2000."

## *The Result:*

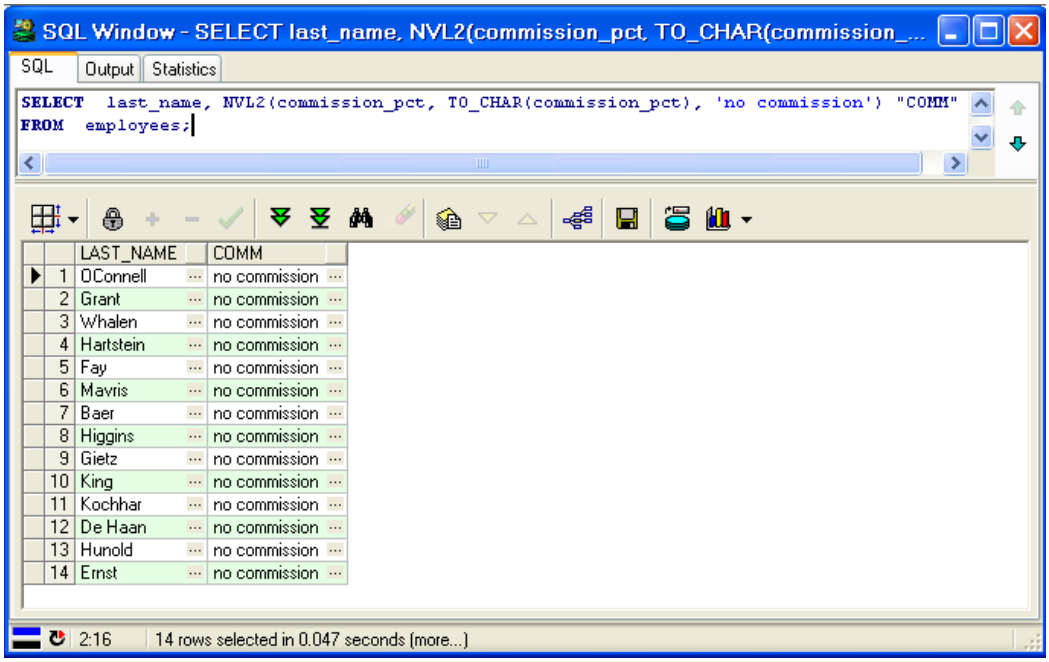



| | LAST_NAME | HIRE_DATE | REVIEW |
|---|---|---|---|
| 1 | OConnell | 21/06/1999 | Monday, the Twenty-Sixth of ١٩٩٩ ديسمبر، |
| 2 | Grant | 13/01/2000 | Monday, the Sixteenth of ٢٠٠٠ يوليو، |
| 3 | Whalen | 17/09/1987 | Monday, the Twentieth of ١٩٨٨ مارس، |
| 4 | Hartstein | 17/02/1996 | Monday, the Eighteenth of ١٩٩٦ اغسطس، |
| 5 | Fay | 17/08/1997 | Monday, the Twenty-Second of ١٩٩٨ فبراير، |
| 6 | Mavris | 07/06/1994 | Monday, the Eleventh of ١٩٩٤ ديسمبر، |
| 7 | Baer | 07/06/1994 | Monday, the Eleventh of ١٩٩٤ ديسمبر، |
| 8 | Higgins | 07/06/1994 | Monday, the Eleventh of ١٩٩٤ ديسمبر، |
| 9 | Gietz | 07/06/1994 | Monday, the Eleventh of ١٩٩٤ ديسمبر، |
| 10 | King | 17/06/1987 | Monday, the Twentieth of ١٩٨٧ ديسمبر، |
| 11 | Kochhar | 21/09/1989 | Monday, the Twenty-Fifth of ١٩٩٠ مارس، |
| 12 | De Haan | 13/01/1993 | Monday, the Eighteenth of ١٩٩٣ يوليو، |
| 13 | Hunold | 03/01/1990 | Monday, the Eighth of ١٩٩٠ يوليو، |
| 14 | Ernst | 21/05/1991 | Monday, the Twenty-Fourth of ١٩٩١ نوفمبر، |

## *Exercise 4:*

Create a query that displays the employees' last names and commission amounts. If an employee does not earn commission, show "No Commission." Label the column COMM.

## *The Result:*



## *Exercise 5:*

Using the `DECODE` function, write a query that displays the grade of all employees based on the value of the column `JOB_ID`, using the following data:

***Job Grade***

AD_PRES A
ST_MAN B
IT_PROG C
SA_REP D
ST_CLERK E
None of the above 0

## *The Result:*