T\_SQL Lab

Lab 3-3單列函數(Single-Row Functions)

1 For each employee, display the employee number, last\_name, salary, and salary increased by 15% and expressed as a whole number. Label the column New Salary. Place your SQL statement in a text file named lab33\_1.sql.

查詢 員工編號employee\_id, 員工姓名last\_name, 薪資salary, 及 薪資salary提升15%後取整數

取別名為 “New Salary” 將指令存成 lab33\_1.sql

Ans:

Select employee\_id,last\_name,salary,round(salary\*1.15,0) as 'New Salary'

from employees

or

Select employee\_id,last\_name,salary,floor(salary\*1.15) as 'New Salary'

from employees

2 Write a query that displays the employee’s last names with lowercase, and the length of the names, for all employees whose name starts with J, A, or M. Give each column an appropriate label. Sort the results by the employees’ last names.

找出員工姓名last\_name為 J,A,M 開頭者, 列出小寫員工姓名last\_name , 及 姓名長度 取別名, 並依姓名last\_name 排序

Ans:

Select last\_name ,len(last\_name)as name\_len

From employees

Where last\_name like '[JAM]%'

Order By last\_name

3. For each employee, display the employee’s last name, and calculate the number of months between today and the date 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.

列出員工姓名last\_name 及就職月數(現在日期 減去 到職日hire\_date), 取別名為 MONTHS\_WORKED, 並依就職月數 排序

Ans:

Select last\_name,datediff(month,hire\_date,GETDATE())as MONTHS\_WORKED

from employees

Order by MONTHS\_WORKED

4. Create a query that displays the employees’ last names and commission amounts. If an employee does not earn commission, put “No Commission.” Label the column COMM.

列出員工姓名last\_name 及傭金commission\_pct, 若沒有傭金commission\_pct之員工, 顯示為

“No Commission” 取別名為 COMM

Ans:

Select last\_name,commission\_pct,ISNULL(cast (commission\_pct as varchar(20)),'No Commission')as COMM

from employees

1. Using the CASE function, write a query that displays the grade of all employees based on the value of the

column JOB\_ID, as per the following data:

使用 CASE函數依員工 JOB\_ID 分級為下列等級, 顯示員工姓名last\_name, 職務job\_id及分級

***Job Grade***

AD\_PRES A

ST\_MAN B

IT\_PROG C

SA\_REP D

ST\_CLERK E

None of the above 0

Ans:

Select last\_name,job\_id,

Case job\_id when 'AD\_PRES' then 'A'

when 'ST\_MAN' then 'B'

when 'IT\_PROG' then 'C'

when 'SA\_REP' then 'D'

when 'ST\_CLERK' then 'E'

else '0'

End "Grade"

From Employees

Order by Grade