Practical 07 – Grouped Query

Objectives of this practical

- Learn to provide summary (aggregate functions) based on specific attributes (Group By)
- Learn to differentiate specification of individual rows or groups for output (Where/ Having)

1. (a) Write the SQL statement to list the mean pay, total pay and the number of staff in each department. Include only full-time staff. Sort the result in ascending order of the number of staff.

   (b) Include only the department with more than 2 staff.

2. (a) Write the SQL statement to list the mean pay, total pay and the number of staff by grade. Include only full-time staff. Sort the result in ascending order of the number of staff.

   (b) Include only the grade with more than 2 staff.

3. Write the SQL statement to list the highest and lowest pay and highest and lowest allowance of each department in ascending order of department code.

4. Write the SQL statement to verify that staff names in the staff relation are unique. You should display any staff names that are not unique.

5. (a) Write the SQL statement to compute the total manpower cost by department, displayed n descending. Exclude the cost due to Principal and Deputy Principal's Office (PO and DPO) by the using the IN set membership operator. Total manpower cost is computed a sum(isnull(pay,0) + isnull(allowance,0)). List the No of Staff for each department as well.

   (b) Exclude those departments with one or two staff.

   (c) Exclude those departments with one or two staff and total manpower cost less than $20,000.

6. Write the SQL statement to list first alphabet of staff number, number of staff and mean age of staff ordered by descending order of number of staff. .