**Data Querying and Manipulation using SQL**

**Single-row functions, Group functions**

Write appropriate SQL queries for following problems.

1. How many currency notes of 500, 200, 100 & 50 denominations each would be required to disburse salary for every employee in department 30?
2. How many cartons would be required to store 12345 gift boxes (that need to be disbursed to employees) if each carton capacity is 144 gift boxes? If only FULL cartons are to be shipped to another location, how many cartons are shippable? Write one single query to show these two values.
3. Show names of employees whose first name as well as last name ends with vowels. (5 rows)
4. Show emp id, salary & salary range of employees as 'Tier1', 'Tier2' or 'Tier3' as per the range <5000, 5000-10000, >10000 respectively, ordering the output by those tiers.
5. Get the job id-wise count of employees in the reverse order of the count (19 rows)
6. Display count, average (rounded to 2 decimals) & total salaries of all employees where the avg salary > 5000, under their respective manager ids, in the reverse order of total salaries. (11 + 1 rows)
7. Show no. of employees present in each department (exclude NULL dept.s, if any) (11 rows)
8. Show department-wise and job-id-wise total gross salaries of employees whose gross salary is more than 25000 (8 rows)
9. Show count of cities in all countries other than US & UK, with more than 1 city, in the reverse order of country id. (4 rows)
10. What is the average salary range (diff. between min & max salary) of all types 'Manager's and 'Clerk's? (2 rows)