

## University of Engineering & Management, Kolkata

Course: B.Tech in CSE

Semester: 5th

Paper Name: Data Base Management System Lab

Paper Code: PCCCS591

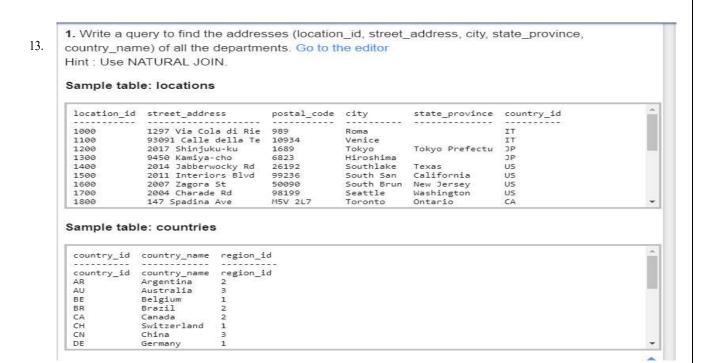
## Assignment No 4

- 1. Show the use of upper and lower function.
- 2. Show the use of concat, instr and length function
- 3. Show the use of the following functions on numeric values:
  - a. Sqrt()
  - b. Power()
  - c. Ceil()
  - d. Substr()
  - e. Max()
  - f. min()
  - g. Round()
  - h. avg()
  - i. count()
  - j. Exp()
  - k. mod()

- 4. Solve the following queries
  - a. Find the ceiling and floor value of 14.887.
  - b. Find out the round-off 17.49989.
  - c. Calculate 8<sup>7</sup>.
- 5. Show the current date
- 6. Find the total experience of the employees in weeks who works in Sales department
- 7. Display the use of the following functions on date
  - a. Months between
  - b. Add months
  - c. Next day
  - d. Last day
  - e. Round
  - f. Trunc
  - g. To char
- 8. Show the employee details with a revised salary. The salary is incremented in the following way:
  - a. 10% for sales department
  - b. 20% for marketing department
  - c. No increment for others
- 9. Determine the tax for each employee in production department based on the monthly salary. The tax rate are as per the following data:

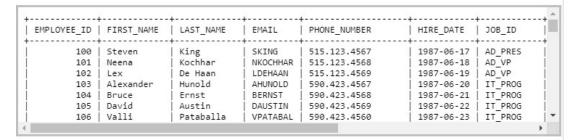
Monthly Salary Range	Rate	
0 – 19,999	0%	
20,000 – 39,999	9%	
40,000 – 59,999	20%	
60,000 – 79,999	30%	
80,000 or more	45%	

- 10. Find the Cartesian product between Employee and Department table.
- 11. Show the employee names and the respective department location.
- 12. Give an example of the following joins considering employee and department tables.
  - k. Natural join
  - 1. Inner join
  - m. Left outer join
  - n. Right outer join
  - o. Full outer join



 Write a query to find the name (first\_name, last name), department ID and name of all the employees. Go to the editor

## Sample table: employees



## Sample table: departments

