



BABU MADHAV INSTITUTE OF INFORMATION TECHNOLOGY, UTU

Integrated M.Sc.(IT) / B.Sc.(IT)

Semester-VI

IT5017 | Database Administration Essentials

Practice List: 02 | **Enrollment No.:** | **Name:**

Problem Definition

After the activation of database “UTU”, create following tables and insert following data in the tables as described below:

Table Name: City

ID	NAME
1	Surat
2	Vapi
3	Valsad
4	Navsari
5	Baroda
6	Mumbai
7	Bardoli
8	Goa
9	Ahmadabad
10	Pune

Table Name: Department

DID	DNAME
D01	Research and development
D02	Quality Assurance
D03	Sales and Marketing
D04	Technical Publications and Training
D05	Technical Support
D06	Human Resource Management
D07	Accounting and Finance

Table Name: Employee

ID	FNAME	LNAME	Cityid	Gender	Designation	Salary	Departmentid
201401	Nehal	Patel	4	M	Software Engineer	45000	D04
201505	Pooja	Naik	1	F	System Analyst	58000	D02
201509	Dhruvin	Modi	1	M	Project Lead	89500	D06
201602	Kakshil	Shah	7	M	Trainee Engineer	38000	D03
201603	Nirav	Savani	10	M	System Analyst	60000	D02
201702	Dhruvi	Patel	8	F	Programmer Analyst	72000	D04
201704	Anjali	Surati	6	F	Tester	70000	D01
201706	Nimesh	Katariya	1	M	Software Engineer	43000	D05
201807	Urja	Naik	3	F	Project Manager	96000	D02
201808	Sumit	Chothani	2	M	Senior Software Engineer	62000	D01

Consider the above tables and perform the following operations:

1. Display all the details of employees in alphabetic order, who are from ‘Surat’.
2. Display only the employee’s names and their salary who is not having salary between 50000 to 60000.
3. Show employee first name, last name along with designation who are from Quality Assurance, Technical Support and Human Resource Management department.
4. Count number of females coming from ‘Mumbai’ and ‘Goa’.
5. Display all the designations of employees.



BABU MADHAV INSTITUTE OF INFORMATION TECHNOLOGY, UTU
Integrated M.Sc.(IT) / B.Sc.(IT)

6. Display the maximum salary among Software Engineers, System Analysts and Programmer Analysts.
7. Display the list of employees working in 'Technical Publications and Training' department and coming from 'Navsari'.
8. Calculate the average salary of employees who are in 'Research and development' department and coming from 'Vapi' and 'Mumbai'.
9. Assign new designations of employees as 'Software Engineer', who are 'Trainee Engineer' and also increase their salary by 10%.
10. Remove all the information of those employees, who are coming from 'Baroda'.
11. Show the list of employees having highest salary.
12. Find who is having second highest salary.
13. List only the employee's names with salary and department's name having more salary than 'Senior Software Engineer'.
14. Display list of those cities from where, there are no employees.
15. Show the list of employee's names with department's name having two or more employees.

Objective(s)

To specify conditions in an SQL statement and serve as conjunctions for multiple conditions in a statement and create a result that uses descriptive values using **Joins and Sub-Query**.