



BABU MADHAV INSTITUTE OF INFORMATION TECHNOLOGY, UTU

Integrated M.Sc.(IT)

Semester-I

060010110 | CC2 Database Management Systems

Practical List: 06	Enrollment No.:	Name:																																																																																								
Problem Definition																																																																																										
After the activation of database “UTU”, create following tables using appropriate constraints and Insert following data in the tables as described below:																																																																																										
Table Name: tblCity		Table Name: tblDepartment																																																																																								
<table><tr><th>ID</th><th>NAME</th></tr><tr><td>1</td><td>Surat</td></tr><tr><td>2</td><td>Vapi</td></tr><tr><td>3</td><td>Valsad</td></tr><tr><td>4</td><td>Navsari</td></tr><tr><td>5</td><td>Baroda</td></tr><tr><td>6</td><td>Mumbai</td></tr><tr><td>7</td><td>Bardoli</td></tr><tr><td>8</td><td>Goa</td></tr><tr><td>9</td><td>Ahmadabad</td></tr><tr><td>10</td><td>Pune</td></tr></table>	ID	NAME	1	Surat	2	Vapi	3	Valsad	4	Navsari	5	Baroda	6	Mumbai	7	Bardoli	8	Goa	9	Ahmadabad	10	Pune	<table><tr><th>DID</th><th>DNAME</th></tr><tr><td>D01</td><td>Research and development</td></tr><tr><td>D02</td><td>Quality Assurance</td></tr><tr><td>D03</td><td>Sales and Marketing</td></tr><tr><td>D04</td><td>Technical Publications and Training</td></tr><tr><td>D05</td><td>Technical Support</td></tr><tr><td>D06</td><td>Human Resource Management</td></tr><tr><td>D07</td><td>Accounting and Finance</td></tr></table>		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																																																		
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Consider the above tables and perform the following operations:																																																																																										
<div>1. Display all the details of employees in alphabetic order, who are from ‘Surat’.</div> <div>2. Display only the employee’s names and their salary who is not having salary between 50000 to 60000.</div> <div>3. Show employee first name, last name along with designation who are from Quality Assurance, Technical Support and Human Resource Management department.</div> <div>4. Count number of females coming from ‘Mumbai’ and ‘Goa’.</div> <div>5. Display all the designations of employees.</div>																																																																																										



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 .
Pre-requisites	Mathematics for Computer Applications
Duration for Completion	4 Hours
PEO(s) to be achieved	To provide quality practical skill of tools and technologies to solve industry problems.
PO(s) to be achieved	Ability to use the techniques, skills and modern tools as necessary for software development.
CO(s) to be achieved	CO7: Use data definition and manipulation statements over one or more tables using SQL to store and retrieve data.
Solution must contain	Query and output screen shots
Nature of submission	Handwritten
References for solving the problem	--
Assessment	
Faculty Signature and Date	