

CS5363: DBMS 2
Lab 1 Question Paper

Instructions:

- There are two sets of questions (Set-1 and Set-2). Answer Set-1 if your first digit (right most digit) of roll number is odd. Answer Set-2 if your first digit (right most digit) of roll number is even.
- Write all the correctly executed queries in a text file and upload as assignment submission within 8.30 PM. Write your name, roll and the question set at the top of the text file.

Total Marks: 20 Time: 6PM to 8.30 PM

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Set-1:

Q-1:[10 Marks] Consider the following database:

EMPLOYEES (Employee_Id, First_Name, Last_Name, Email, Phone_Number, Hire_Date, Job_Id, Salary, Commission_Pct, Manager_Id, Department_Id)

Write SQL queries to answer the following:

- a) Create a table named EMPLOYEES and Insert the five records given below in the table created
- b) Find the names of the employees who have a salary greater than or equal to 50000
- c) Find the average salary of the employees department-wise
- d) Find the number of employees working under each manager

Employee_Id	First_Name	Last_Name	Email	Phone_Number	Hire_Date	Job_Id	Salary	Commission_Pct	Manager_Id	Department_Id
4523	Rama	Rao	rao@gmail.com	1234567890	22-Jan-2000	213	30000	60	543	12
4102	Prasad	Rao	prasad@gmail.com	5678909012	26-Jul-1997	214	70000	40	543	12
5123	Raja	Shekhar	Raja@gmail	9999999921	21-May-1999	213	55000	35	999	10

			.com							
3213	Ranga	Reddy	reddy@gmail.com	3421398763	22-Sep-1990	199	95000	45	213	11
4213	Ravi	Kumar	kumar@gmail.com	3421298754	22-Jan-2000	213	50000	60	213	09

Q2:[10 Marks] These questions are based on the university database.

- I. Assume the salary mentioned in the instructor table is monthly salary. Write an SQL to display the name, department and annual salary of each instructor.
- II. Obtain Roll No. and Name of Students concurrently enrolled in more than five courses.
- III. Find all the instructors earning the highest salary.

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Set 2 in the next page.

Set 2:

Q1[10 Marks]: Consider the following database:

Sales_Table (Sales No, Salesname, Branch, Sales_Amount, Sales_Date)

Write SQL queries to answer the following:

- a) Create the Sales_Table table and Insert the following five records in the table:

Sales No	Sales_Name	Branch	Sales_Amount	Sales_Date
1020	Automobile	Hyderabad	68452	28-JUL-1985
1021	Electronics	Secunderabad	47850	22-DEC-1995
1022	Electronics	Secunderabad	44500	03-JUN-1986
1023	Automobile	Hyderabad	74200	28-SEP-1996
1024	Automobile	Hyderabad	54500	28-OCT-1984

- b) Display the total Sales_Amount in each branch
c) Display all the Branch whose Sales_Date is in the month of December as the day is given in the character format, i.e. 21-Dec-09
d) Display the list of all branches where average **sales_amount** is more than 60000.

Q2[10 Marks]: These questions are related to the university database as discussed in class.

- I. Select all records from the course table where *course_id* must be **CS-101**, **CS-190**, **CS-315** or **BIO-101**. You cannot use “and/or” operators in the where clause of your SQL.
- II. Display a list of all course sections offered by the Physics department in the Fall 2009 semester, with the building and room number of each section.
- III. Display the names of all students who have taken at least one CSE course. Make sure that no duplicate name should be displayed.