

## Lab Guide for RDBMS Essentials



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## 1 Background

This document contains assignments to be completed as part of the hands on for the subject RDBMS Essentials (Course code: DB91).

**Note:** In order to complete the course, assignments in this document must be completed in the sequence mentioned.

## 1 Assignments for Day 1 of RDBMS Essentials

All the assignments in this section must be completed on Day 1 of your RDBMS Essentials course.

### 1.1 Assignment 1: Solve the following Queries

**Objective:** To test the ability of writing SQL queries

**Platform:** Use devsquare platform to solve the following queries. Make use of the URL shared by the educator or Batch Owner to login to devsquare.

#### Important Instructions

- All the necessary tables are implicitly created for you, by default in devsquare platform
- Write the solutions for the respective queries in the appropriate files. For example, the answer or solution for query (1) should be present in rdbms\_sol1.sql, the answer or solution for query (2) should be present in rdbms\_sol2.sql and so on.
- Do not copy the solution in a different .sql file. Queries would not be properly evaluated if you submit the queries in different files
- Only syntactically correct queries alone will be evaluated. Queries submitted with syntax errors would be awarded 0 marks
- Do not add any additional records in any of the tables
- Display only the required columns as asked in the query. Do not display any additional columns which are not explicitly asked in the problem statement

- Order of display of columns does not matter. But all the expected columns should be present. Even if anyone column is missed, the query would be considered as wrong and 0 marks would be awarded. For example, if you have been asked to display three columns (studentid, studentname, overallpercentage), these columns can be displayed in any order.

Solve the following queries.

1. Display the studentid, name and overall percentage of all students

Note: Submit the solution for this query in rdbms\_sol1.sql

2. Display the applicantid, applicantname, emailid, optedbranch, overallpercentage, admissionstatus, hostelrequired and gender of the applicants who has opted for hostel and has been allocated.

Note: Submit the solution for this query in rdbms\_sol2.sql

3. Display the studentid, studentname and total number of courses registered by that student.

Note: Submit the solution for this query in rdbms\_sol3.sql

4. Display the instructorid, instructorname, dateofjoining, departmentid and remaininghours, who have been allocated two or more courses.

Note: Submit the solution for this query in rdbms\_sol4.sql

5. Display the instructorid, instructorname, dateofjoining, departmentid and remaininghours, who has not completed the total number of lecture hours.

Note: Submit the solution for this query in rdbms\_sol5.sql

6. Display the departmentname and total number of instructors in each department. If no instructor is available display 0 in place of total number of instructors.

Note: Submit the solution for this query in rdbms\_sol6.sql

7. Display the departmentid, departmentname, headofdepartment and hodname of all the departments.

Note: Submit the solution for this query in rdbms\_sol7.sql

8. Display the hostelid, roomsavailable, hosteltype and hostelfee of the hostel which has maximum allocation.

Note: Submit the solution for this query in rdbms\_sol8.sql

9. Display the hostelid, roomsavailable, hosteltype, hostelfee and totalfeescollected from the hostel which has collected the maximum hostel fee as on date based the current hostel allocations

Note: Submit the solution for this query in rdbms\_sol9.sql

10. Display the branchname and total number of students present in each branch.

Note: Submit the solution for this query in rdbms\_sol10.sql