**Rajagiri School of Engineering and Technology, Kakkanad**

**Department of Computer Science and Engineering**

**CS010507: Database Lab cycle - 2016**

**Day 1**

1. Study of Entity – Relationship diagrams using software tools.

**Day 2**

1. To implement basic SQL Data Definition Language (DDL) commands and constraints.
2. Create the following tables with the appropriate integrity constraints details.
   * 1. **Table Name:** Employee

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Size | Constraints |
| EmpNo | Number | 6 |  |
| EName | Varchar2 | 20 | Not Null |
| Job | Varchar2 | 10 | Unique |
| Manager | Number | 4 |  |
| Dept\_No | Number | 3 |  |
| HireDate | Date |  |  |
| Salary | Number | Precision-7,scale-2 |  |

* + 1. **Table Name**: Dept

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Size | Constraints |
| DeptNo | Number | 2 | Primary Key |
| Dname | Varchar2 | 10 |  |
| Loc | Varchar2 | 10 |  |

1. Add a column Commission to the Employee table. The data type is numeric and null value is allowed.
2. Modify the column width of the job field of Employee table.
3. Add constraints to the Employee table by giving that EmpNo as the primary key and DeptNo as the foreign key.
4. Add constraints to the Employee table to check the EmpNo value. EmpNo > 1000.
5. Set Salary value by default as 5000, otherwise as the user enters.
6. Add column DOB to the Employee table.
7. Remove the constraints from the column Job in Employee table.
8. Delete the table Dept.
9. Rename the column name Salary to Sal in Employee table.

**Day 3**

1. To study the Data Manipulation Language (DML) commands and implement them.