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|  | Finolex Academy of Management and Technology, Ratnagiri | | | |
| **Department of Information Technology** | | | |
| **Subject:** | **SQL LAB L303** | | | |
| **Class:** | **SE IT / Semester – III (CBGS) / Academic year: 2017-18** | | | |
| **Name of Student:** |  | | | |
| **Roll No:** |  | | **Date of performance (DOP) :** |  |
| **Assignment/Experiment No:** | | **06** | **Date of checking (DOC) :** |  |
| **Title: Complex Queries using Joins** | | | | |
| **Marks:** | |  | **Teacher’s Signature:** |  |

**1. Aim**: Develop Complex Queries using Joins

**2. Prerequisites**:

1. Knowledge of Relational model.
2. Knowledge of Joins in Relational Algebra.
3. Knowledge of DDL DML Queries

**3. Hardware Requirements**:

1. PC with minimum 2GB RAM

**4. Software Requirements:**

1. Ubuntu / Windows installed
2. MySQL

**5. Learning Objectives:**

1. To give a good formal foundation on the relational model of data.
2. Learning multiple data retrieval techniques.
3. Learning Retrieval of data from Multiple Relations.

**6.Course Objectives Applicable:** CO 4

**7. Program Outcomes Applicable: PO5**

**8. Program Education Objectives Applicable: PEO2,PEO3**

**9. Theory: <Preferably given as handwritten work for students>**

**10. Results:**

<Source code and screenshots of the output to be added here.>

**11. Learning Outcomes Achieved <Handwritten>**

**12. Conclusion: <Handwritten>**

1. **Applications of the studied technique in industry –**
2. **Engineering Relevance –**
3. **Skills Developed –**

**13. Experiment/Assignment Evaluation**

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| **SR** | **Parameters** | **Weight** | **Excellent** | **Good** | **Average** | **Poor** | **Not as per requirement** |
| **Scale Factor ->** | 5 | 4 | 3 | 2 | 0 |
| 1 | Technical Understanding | 25 |  |  |  |  |  |
| 2 | Performance / Execution | 25 |  |  |  |  |  |
| 3 | Question Answers | 20 |  |  |  |  |  |
| 4 | Punctuality | 20 |  |  |  |  |  |
| 5 | Presentation | 10 |  |  |  |  |  |
|  | Total out of 100 -->  #(to be converted as per term-work evaluation applicable to the subject) | | **∑ (Weight \* Scale Factor)/5 = \_\_\_\_\_\_\_\_** | | | | |

**References**:

[1] Elmasri and Navathe, “ Fundamentals of Database Systems”, 6th Edition, PEARSON Education

[2] G. K. Gupta :”Database Management Systems”, McGraw – Hill

[3] Korth, Slberchatz,Sudarshan, :”Database System Concepts”, 6th Edition, McGraw – Hill

[4] SQL The Complete Reference, 3rd Edition , James R Groff, Paul N. Weinberg, Andy Oppel, McGraw Hill.

**Viva Questions**

1. What is subquery?
2. What is Referential Integrity Constraint?
3. What is Unique Constraint?