 *DEPARTMENT OF COMPUTER ENGINEERING* Experiment No: 1

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| Semester | S.E. Semester IV – Computer Engineering |
| Subject | Database Management Systems Laboratory. |
| Lectures Professor In-charge | Prof. Suja Jayachandran |
| Practicals Professor In-Charge | Prof. Suja Jayachandran |
| Laboratory number | M312 |

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| Roll Number | 21102A0014 | | |
| Grade |  | Teacher’s Signature |  |

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| Experiment No: | 3 | |
| Experiment Title | Integrity constraints | |
| Resources / Apparatus Required | Hardware:  PC | Software:  PostgreSQL |
| Objectives  (Skill Set / Knowledge Tested / Imparted) | 1)To Study integrity constrain | |
| Historical Profile |  | |
| Theory | DBMS (Database Management System) integrity constraints are used to ensure the accuracy, consistency, and validity of data in a database. Some of the commonly used integrity constraints include:   1. Default Constraint: This constraint is used to specify a default value for a column when no value is explicitly provided during data insertion. 2. Check Constraint: This constraint is used to restrict the values that can be inserted into a column based on a specified condition. For example, a check constraint can be used to ensure that a date column only accepts dates after a certain date. 3. Not Null Constraint: This constraint is used to ensure that a column must have a value and cannot be left empty or null. 4. Unique Constraint: This constraint is used to ensure that the values in a column or a set of columns must be unique across all rows in a table. 5. Primary Key Constraint: This constraint is used to uniquely identify each row in a table. A primary key is a column or a set of columns that uniquely identifies each row in a table and ensures that the table has no duplicate rows.   By using these constraints, a DBMS ensures that data in the database remains accurate and consistent, and also helps to prevent errors and data inconsistencies.Top of Form | |
| Implementation | Graphical user interface, text  Description automatically generatedText  Description automatically generatedText  Description automatically generatedGraphical user interface, text, application, email  Description automatically generatedText  Description automatically generated | |
| Conclusion | DBMS (Database Management System) integrity constraints are used to ensure the accuracy, consistency, and validity of data in a database | |
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