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Mahatma Gandhi Mission’s College of Engineering and Technology

Kamothe, Navi Mumbai

Assignment -4

Subject-DBMS Div-A & B Sem-V Class –TE

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| **Q.No** | **Question** | **Module** | **Bloom’s Taxanomy level** | **Program Indicator(PI)** | **CO** |
| **Q1.Fill in the blanks** | |  |  |  |  |
| **a)** | Full form of SQL is \_\_\_\_\_\_\_\_. | 4 | 1 | 1.4.1 | 4 |
| **b)** | \_\_\_\_\_\_\_\_ used to manage table and index structure. | 4 | 1 | 1.4.2 | 4 |
| **c)** | \_\_\_\_\_\_\_\_ Operator performs pattern matching. | 4 | 1 | 1.3.2 | 4 |
| **d)** | To change the structure of the table we use\_\_\_\_\_\_\_\_ command | 4 | 1 | 1.3.1 | 4 |
| **e)** | A command that lets you change one or more field in record is \_\_\_\_\_\_\_\_ | 4 | 1 | 1.3.3 | 4 |
| **Q2. Choose Correct Options** | |  |  |  |  |
| **1** | A table is in BCNF if it is in 3NF and if every determinant is a \_\_\_\_\_\_\_\_\_\_\_ key. a) Dependent b) Normal c) Candidate d) Both Normal and Candidate | 4 | 1 | 1.3.1 | 4 |
| **2** | 5A \_\_\_\_\_\_\_\_\_\_\_ is an indirect functional dependency, one in which X->Z only by virtue of X->Y and Y->Z. a) Multivalued Dependencies b) Join Dependency c) Trivial Functional Dependency d) Transitive Dependencies | 4 | 1 | 1.3.5 | 4 |
| **3** | Which of the following is not a valid SQL type?  a)FLOAT b. NUMERIC c)DECIMAL d)CHARACTER |  |  |  |  |
| **4** | Which of the following is not a DDL command?  a)TRUNCATE b) ALTER c)CREATE d)UPDATE |  |  |  |  |
| **5** | Which of the following are TCL commands?   1. COMMIT and ROLLBACK 2. UPDATE and TRUNCATE 3. SELECT and INSERT 4. GRANT and REVOKE |  |  |  |  |
| **6** | How many Primary keys can have in a table?   1. Only 1 2. Only 2 3. Depends on no of Columns 4. Depends on DBA |  |  |  |  |
| **7** | 9) Which of the following is not Constraint in SQL?   1. Primary Key 2. Not Null 3. Check 4. Union |  |  |  |  |
| **8** | 7. Anomalies are avoided by splitting the offending relation into multiple relations, is also known as a) Accupressure b) Decomposition  c) Precomposition d) Both Decomposition and Precomposition | 4 | 1 | 1.3.1 | 4 |
| **9** | Which of the following is used to denote the selection operation in relational algebra? a) Pi (Greek) b) Sigma (Greek) c) Lambda (Greek) d) Omega (Greek) | 4 | 1 | 1.3.3 | 4 |
| **10** | |  |  | | --- | --- | | 14. | The \_\_\_\_\_\_\_\_\_\_\_ operation, denoted by -, allows us to find tuples that are in one relation but are not in another. | | a. | Union | | b. | Set-difference | | c. | Difference | | d. | Intersection | |  | |  |  |  |
| **11** | |  |  | | --- | --- | | 20. | Which of the following is not valid unary operation in the relational algebra ? | | a. | select | | b. | min | | c. | project | | d. | rename | |  | |  |  |  |
| **Q3. state whether the following statements are true or false (Give Reasons)** | |  |  |  |  |
| **a)** | Semicolon at the end of each SQL Statement will terminate the SQL statement  a) True b) False | 4 | 1 | 1.3.1 | 4 |
| **b)** | SQL is NOT case insensitive. a) True b) False | 4 | 1 | 1.3.2 | 4 |
| **c)** | The SELECT command, with its various clauses, allows users to query the data contained in the tables. a) True b) False | 4 | 1 | 1.3.3 | 4 |
| **Q4. Answer the following questions in brief (20 to 30 words)** | |  |  |  |  |
| **a)** | Explain Integrity Constraints in detail. | 4 | 2 | 1.2.2 | 4 |
| **b)** | Explain String functions. | 4 | 2 | 1.2.1 | 4 |
| **c)** | Explain trigger in details. | 4 | 2 | 1.2.3 | 4 |
| **Q5. Answer the following questions in brief (20 to 30 words)** | |  |  |  |  |
| **a)** | What is Normalization, Explain 1NF and 2NF with example. | 4 | 2 | 1.2.1 | 4 |
| **b)** | Explain 3NF and BCNF in DBMS with example |  |  |  |  |
| **c)** | Explain views in detail | 4 | 2 | 1.2.1 | 4 |
| **d)** | Explain TCL Commands with example |  |  |  |  |
| **e)** | Explain Join operation in detail with example |  |  |  |  |