Assignment questions of DBMS 2025 (1)

1. Discuss the main characteristics of DBMS approach. How it is different from traditional file system?
2. What are different database languages? Which types of actions are provided by them?
3. Describe the database life cycle with diagram.
4. Explain Codd's 12 rules.
5. Consider the table STUDENT (R\_NO, Name, Age, Marks, Course). Write an SQL query to:

(i) Show the name and roll number of students having maximum marks in each course.

(ii)Count the total number of student

(iii) Display roll number of students having marks >80 and age>25

1. Explain Different types of keys in DBMS with examples.
2. Explain Hierarchical Model, Network Model, Relational Model in DBMS.
3. What is data independence? Discuss briefly the two types of data independence.
4. What is relational algebra? Explain the different types of operators with example.
5. What do mean by Data, Information and knowledge? Explain the different types of knowledge with examples.
6. Consider the following tables : Account( customer\_name, account\_no, branch\_name, balance)

Give SQL statements for the following queries

(a) Find the customer name and their account number if their account balance is greater than or equal to 50,000.

(b) Find the names of all account holders who have an account in 'Civil Lines' branch.

(c) Show the names of different branches along with their average balance.

12. Create the table name employee (Emp-Id, Name, Job, Salary and Department)

(a) insert five records.

(b) Ad the three attributes-HRA, DA and "Total.

(c) update all employee record increasing 2000 salary for all.