

Jabalpur Engineering College, Jabalpur

CSE Department

Assignment-1 (DBMS)

Note:

Marks:05

- (i) Attempt all questions
 - (ii) Submit Assignment on 07/10/2024
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- 1. What is meant by instance of the database and database schema? Explain with suitable example.
 - 2. With the block diagram explain the architecture of a DBMS.
 - 3. Explain different types of data models.
 - 4. Consider the relational database as shown below;

Employee (employee_name, street, city)

Work (employee_name, company_name, salary)

Company (company_name, city)

Manager (employee_name, manager_name)

Given an expression in SQL and relational algebra for each of the following Queries:-

- i) Find all employees in the database who do not work for SBI.
- ii) Find the company that has the smallest payroll.
- iii) Find the company that has the most employees.
- iv) Give all managers of SBI a 10 percent raise.