

DBMS Question Bank Unit-I

- Q.1 write the difference between DBMS & file processing system.
- Q.2 what is Data abstraction in DBMS, Also write their levels of abstraction.
- Q.3 what are the various Data models available in DBMS system, write about brief in anyone.

- Q) 7 Explain DBL with their types?
- Q) 4 What is E-R diagram? Write the various keywords used in ER diagram with an example.
- Q) 5 Define attributes with their various types.
- Q) 6 Make an ER diagram of Hospital Management System.

Unit - II

- Q) 1 What is integrity constraint? Write the various constraint available in DBMS system.
- Q) 2 Why we use key in DBMS. Write the various key available, in brief.
- Q) 3 Define Relational Algebra ^{in DBMS} with their various operations.

Hint:- Unary, Binary,

- Q) 4 Write the Relational algebraic expression for the following questions:- (Employee table given in question)
- ① Display the employee name, department who has salary greater than 25000.
 - ② Retrieve the first name, last name & salary of all employees who work in the department no. 5.
 - ③ Retrieve the social security numbers of all employees who either work in department no. 5 or directly supervise an employee who works in department no. 5.
 - ④ Retrieve the names of female employees and their dependents.
- Q) 5 What are the various aggregate functions used/available in DBMS? Explain with an example.
- Hint:- SUM, AVERAGE, MAXIMUM, MINIMUM, COUNT with example.

- Q>6 why we use JOIN operation in DBMS. write the various join operations with an example.
- Q>7 write about Relational calculus in DBMS with their types and example.
- Q>8 write the relational calculus expression for the following questions.

- ① Retrieve the name and address of all employees who work for the research department.
- ② Find the names of employees who work on all the projects controlled by department number 5.
- ③ Retrieve the birthdate and address of the employee whose name is 'John B. Smith'.

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Language which is based on tuple calculus is relational