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- 3 Design a 'Generalization specialization hierarchy for following :
 - (a) A college runs courses like BCA, BBA, B.Com. B.Ed. B.Sc. Each course has its own attributes, staff. Staff for English and Mathematics are common. The administrative staff is common for all the courses. Certain employees are permanent and adhoc. Permanent employees are given salaries at the end of the month whereas weekly wages are paid to temporary staff depending on their number of hours.
 - (b) Explain the distinction among various types of keys like primary key, candidate key, super key, unique key and foreign key along with example.
- Explain in detail : (any two)
 - (a) Explain the various kinds of integrity constraints and how can you implement them in database.
 - (b) Discuss the advantages and disadvantages of DBMS. What is good criteria of performing decomposition with example ?
 - (c) Explain in detail how data are abstracted in DBMS.
- $\mathbf{5}$ Consider the following tables and answer the queries :
 - List the employees whose name starts with 'A' (a)
 - List all the employees whose Hiredate is 1st June 1995. (b)
 - List the employees whose salary is maximum in each (c) department
 - (d)Count the number of employees working in 'System department of Bombay.
 - List the employees whose salary is > Rs. 5000 and (e)< Rs./12,000.
 - (f) Calculate average, minimum, maximum salaries of employees for the employees who are programmer.

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