DBms

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0406

Second Year B. C. A. (Sem. III) Examination

October/November – 2005

302 - Database Mgt. Sys.

Time : 2 Hours]   [Total Marks : 70

Instructions :
(1)

नीचे दर्शावेलनिशानीवाणीविगतोउेमर्चवणी पर अवश्यधमवी. Fill up the details of ☞ signs given in answer book	Seat No. : 0 0 0 3 0 0
Name of the Examination : **B. C. A. - 3**	
Name of the Subject : **Database Management Systems**	Student's Signature
Subject Code No. : **0 4 0 6** ☞ Section No. (1, 2....) : **Nil**	

(2)   All questions are **compulsory** and carry **equal** marks.

(3)   Draw **diagrams** and give illustrations whenever required.

1   (a)   Explain about major dis-advantages of a file   7
          processing system.

    (b)   Explain the concept term Aggregation.   4
          Use appropriate example to explain it.

OR

    (b)   Explain the steps to setup a database for an   4
          enterprise. Discuss various related issues.

    (c)   Explain database language. Discuss various terms   3
          related to it.

OR

    (c)   Write difference between DML and DCL   3

MP-0406]   1   [Contd...

2 (a) Write note on Generalization. What is difference between generalization and specialization ? Provide appropriate example. **8**

OR

(a) Describe various keys and their usage. Explain difference between primary key, candidate key, super key, unique key and foreign key. Provide appropriate example. **8**

(b) A travel agency book tickets for various destination for their clients. They book tickets for railway and airlines. Draw E/R diagram and design tables providing required constraints. **6**

OR

(b) Students study in a art college which provide various courses related to music, drawing and dance etc. Teachers are related to various courses. A student can opt maximum 3 subjects. One teacher look after every course. Draw E/R diagram and design tables providing required constraints. **6**

3 (a) List out various disadvantages and limitations of RDBMS. Explain the measures required to overcome them. **8**

(b) Explain the term database abstraction. Discuss functional dependency giving appropriate example. **6**

OR

(c) What is Normalization ? Discuss steps to perform normalization. **6**

4 (a) A medical shop sells various medicines to their customers. The customer is referred by doctors. The shop keeper prepares bill for the patient. Design appropriate tables and associate them. Follow normalization procedure. Also list out the functional dependencies. **10**

OR

(a) Consider the following relation.   10

Order_master (order_no, order_date, custonmer_no, order_amount)

Order_details (order_no, item_no, quantity, cost)

List the functional dependencies in above tables and identify a candidate key.

In what normal form the above relation is ? Justify your answer.

(b) Discuss various kind of integrity constraints. How can 4 we implement them in a database ?

5 Consider following relation in database and solve the given queries :   14

Bill_master (bill_no, car_no, chassis_no, customer_code, bill_date, cost, tax, total_cost)

Customer_master (customer_no, name, address, purchase_date, car_color)

Delivery_master (delivery_no, bill_no, delivery_date, del_time)

(a) Create above tables and write required sql statements providing appropriate constraints.

(b) Display car sold to the customers in the month of May and June.

(c) Display bill information, customer name and delivery time for only black and white cars.

(d) Show name of customers who took delivery of their car in month of January.

(e) Display Bill information and delivery date for customers whose name start with 'A'.

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