

06/10/2017

FYCS-SEM II-DBMS-2^{1/2} HRS.- 75 MKS

- Note: i) All questions are compulsory.
ii) Figures to the right indicate full marks.
iii) Give query example wherever necessary.

Q.1 Attempt any Four.

[20]

Explain –

- i) Foreign Key Constraint
- ii) Primary Key Constraint

Explain the structure of DBMS.

Explain Record Based Logical Model in brief.

What do you mean by Specialization?

Write short note on – Network Model.

Explain Object Based Logical Model in brief.

Diagrammatically explain Binary Relationship.

What are the advantages of DBMS?

Q.2 Attempt any Four.

[20]

Explain Intersection and Equi-Join relational operators.

Why ALTER TABLE command is used?

Write short note on HAVING clause with example.

Explain DCL statements used in MySQL.

What do you mean by Normalization? Explain Third Normal Form.

How do you convert an Entity to a table?

Explain the use of Commit, Savepoint and Rollback with respect to transaction.

Consider following tables:

Book (bookid, bookname, author, publisher)

Orders(orderno, orderdate, qty, amt, bookid)

Solve following queries:

i) Display the authors whose name starts with 'R' and 'M' as third letter.

ii) Find the number of copies ordered for each book.

iii) Create a table Books with 'bookid' as the primary key of the table.

Q.3 Attempt any Four.

[20]

a) What is subquery? Explain ALL clause with example.

b) What are the threats to database?

c) What are the advantages of views?

d) What do you mean by privileges? Explain GRANT and REVOKE statements.

- e) Explain –
i) adddate()
ii) day
iii) datediff()
f) Explain any five mathematics function used in MySQL.
g) How to provide security to database?
h) Consider following tables-

Student(rollno, sname, city, marks, classid)

Class(classid, classname, capacity)

Solve following queries –

- i) Display the details of students along with their class details.
ii) Create a view showing the students having marks is in the range of 75 to 85.

Q.4 Attempt any Four.

[15]

- a) What are the limitations of File Processing System?
b) What are the users of database system?
c) Explain any Two DDL statements with proper example.
d) Explain all aggregate function with query example.
e) Explain any five string functions used in MySQL.
f) Explain the role of DBA.