
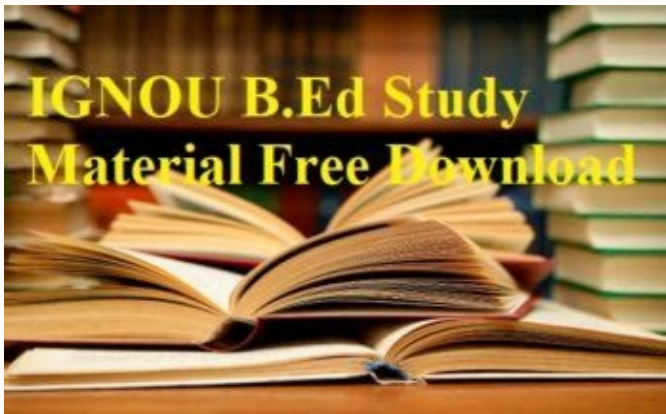


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Course Code	MCS402
Course Title	Advanced Database Management Systems
Assignment Number	MCA/Edu/Assignment/17-18
Maximum Marks	100
Weightage	25%
Last Date for Submission	15 <sup>th</sup> October, 2017 (For July 2017 session) 15 <sup>th</sup> April, 2018 (For January 2018 session)

This assignment has ten questions, which carries 80 marks. Answer all the questions. Best 20 marks are for viva voce. You may use illustrations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation.

- An organization undertakes manufacturing projects. There are different levels of employees (full time and part time). Each employee can work on one or more projects. Each project is undertaken on the request of a client. A client can be a public sector company or a private sector company. A project can use a number of items from a different manufacturer and an item may be used by several projects. Clearly indicate the entities, attributes, relationship between entities, keys and cardinalities and make suitable assumptions.
  - Draw the ER (extended ER) diagram for the above organization showing all entities, relationship, aggregation, generalization specialization and convert it into relational schemas
  - Draw the appropriate tables and relationship among the tables for the above diagram and normalize the tables up to 3NF
  - Identify weak entity sets in the above diagram if any. How will you convert a weak entity set to a strong entity set? Illustrate.
  - Identify multivalued dependency in the above diagram.
  - Using the manufacturing example, write relational - algebra expressions to do the following queries:
    - Find out how many employees working on P1 and P2 projects
    - How many projects are using items I1 and I2.

- What is meant by the term view in context of DBMS? Why is it used? (5 Marks)  
Consider the following student schema:  
Student (S\_ID, S\_Name, S\_Program)  
Classroom (C\_Code, C\_Name)  
Faculty (F\_ID, C\_Code)  
Create a view for a student who's S\_ID is 2017001 which show the list of all the courses required by the student in a program. The list should show C\_Code, C\_Name and S\_Program.  
Explain any four constraints for updating a table in a view.
- Consider the following relations:  
Employee (E\_ID, Name, P\_ID)  
Project (P\_ID, E\_ID, P\_Cost, P\_Profit)  
Consider the following query on these relations:  
List the E\_ID, Name, P\_Code and P\_Profit whose E\_ID is 2017001
  - Represent the above query using SQL. (1 Mark)
  - Convert the SQL query into equivalent relational algebraic query (2 Marks)
  - Draw the query tree for the above relational algebraic query (3 Marks)
  - Using the query tree, transform the relational algebraic query to an equivalent relational algebraic query which may reduce the query evaluation cost. (4 Marks)
- How will you enforce the referential integrity constraint in Oracle? (5 Marks)  
Explain with the help of an example.
- Define simple Hash Join and explain the process and cost calculation (10 Marks)  
Explain with the help of an example.
- Create an XML schema for the list of 3 books available in the library with their details like : ISBN, Title, Author's name, Year of Publication, Publishers and Cost (5 Marks)
- What is an assertion? Give an example of an assertion? (5 Marks)
- Elaborate the recovery mechanism with concurrent transaction? (5 Marks)
- How does Oracle manage database security? Discuss. (5 Marks)
- How can multidimensional data be represented in data warehouse? (5 Marks)  
Explain through an example.

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SESSION 2017-18

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