



TAGORE ENGINEERING COLLEGE

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Subject: DATA BASE MANAGEMENTS

Fishbowl Methods for Normalization Topic In DBMS

Normalization is a key topic in Database Management Systems (DBMS) that involves organizing data to reduce redundancy and improve data integrity. Using the Fish Bowl method to explore normalization can facilitate a deep and interactive understanding of the subject. Here's how you can structure a Fish Bowl activity focused on normalization:

To explore the principles of normalization, including the different normal forms (1NF, 2NF, 3NF, BCNF, etc.), their advantages, and their applications in database design.

- Prepare a list of key normalization concepts and questions, such as:
- What is normalization and why is it important in DBMS?
- How do the different normal forms (1NF, 2NF, 3NF, BCNF) address data redundancy?
- Can you provide examples of how to normalize a database schema?
- What are the trade-offs of normalization, such as performance impacts?

Create or find example tables to illustrate different normal forms. These examples will help participants understand how to apply normalization concepts.

Arrange seating so there is a central “fish bowl” area and an outer group area.

**Benefits of the Fish Bowl Method for Normalization:**

1. Engages students actively in discussing and applying normalization concepts.
2. Helps students understand complex normalization topics through discussion and examples.
3. Allows students to hear different viewpoints and approaches to normalization challenges.
4. Encourages students to think critically about the implications of normalization on database design.

Conclusion

Encourages students to think critically about the implications of normalization on database design.