VIGNAN'S NIRULA
INSTITUTE OF TECHNOLOGY & SCIENCE FOR WOMEN
(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)
Vignan Avenue, Peda Palakaluru, Guntur - 522009
Department of Information Technology

Innovative Practice

Course Information:

Faculty Name : Mrs.Sk.Sharmila
Course Name : Statistics with R Programming
Class : II B.Tech II Semester
Academic Year : 2023-2024
Title of the Topic : Decision Tree
Activity Name : Think pair share

Objective of the Activity:

The objective of this Think-Pair-Share activity is to encourage student engagement by allowing them to first think individually, then discuss their thoughts with a partner, and finally share their insights with the larger group.

Activity Procedure:

1. **Preparation**:
    - Provide students with sample scenarios (e.g., a university database, an e-commerce platform, or a hospital system). Include entities, attributes, and relationships for each scenario.
    - Prepare worksheets with tasks like identifying entities, attributes, primary keys, and relationships, and designing simple ER diagrams based on given descriptions.
2. **Phase 1 – Think (5-7 minutes)**:
    - Each student works individually to analyze a given scenario and complete the following tasks:
    - Identify entities, attributes, and relationships in the scenario.
    - Determine which entities can be specialized or generalized.
    - Create a draft ER diagram for the scenario.
    - Students document their individual answers and reasoning on the worksheet.
3. **Phase 2 – Pair (10-15 minutes)**:
    - Students partner up to:
    - Compare their individual ER diagrams and reasoning.
    - Work together to improve their ER diagram, ensuring it accurately represents the given scenario.

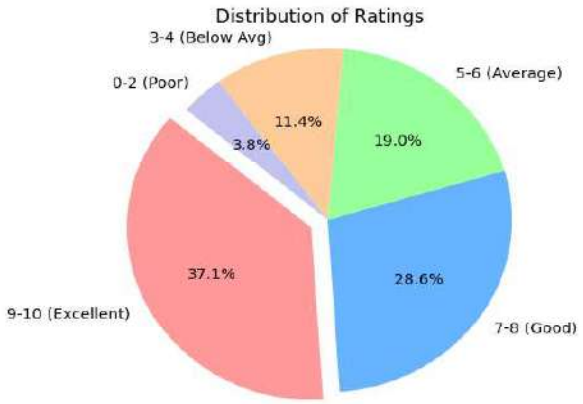
4. **Phase 3 – Share (10-12 minutes)**:

- Each pair presents their refined ER diagram and findings to the class, focusing on:
- Key entities, attributes, and relationships identified.
- How they applied specialization, generalization, or inheritance.
- Challenges they faced and how they resolved them.

Screenshot of the Practice

Assessment Analysis:

Marks Range	Number of Students	Percentage
9-10 (Excellent)	39	37.1%
7-8 (Good)	30	28.6%
5-6 (Average)	20	19.0%
3-4 (Below Avg)	12	11.4%
0-2 (Poor)	4	3.8%
Total	105	100%



Conclusion of Think-Pair-Share Activity

The Think-Pair-Share activity effectively helped students understand and apply ER model concepts like entities, attributes, specialization, and generalization. By analyzing scenarios, collaborating on diagrams, and sharing insights, students developed practical database design skills.

Signature of the Faculty **Head of the Department**