DEPARTMENT OF IT :: VRSEC
A.Y. 2021-22

INFORMATION
TECHNOLOGY

## Group Excercises

## Standard Operating Procedure (SOP)

## Introduction:

Students are needed to be empowered to explore subjectin conducting group activities which enhances to improve and utilize teamwork and communication with reduced stress. All students can learn from each other at this point by presenting results. Teacher gives the topic and puts the topic in discussion forums of students to discuss and summarize. Students then split into small groups. In this way, students can be given support through this activity to achieve higher grades, learn at a deeper level, retain information longer, acquire greater communication and teamwork skills, and gain a better understanding of the environment in which they can be able to work as professionals.

## ACTIVE LEARNING

| Name of the Faculty: Dr.S.Suhasini | Designation: Associate <br> Professor | Subject: Database Management <br> Systems |
| :--- | :--- | :--- |
| Year/ Semester: II/II | Section: II-A | Topic: Database design |
| Name of the activity: Group <br> Activity | Date: 22-06-2022 | No. of students attended:68 |

## Objective of the activity:

- Eliminate redundant data
- Make access to data easier for user
- Store the organization's data.
- Present that data in ways that are useful to the organization.


## Execution Plan:

Time management: Class time: 50mins

- Forming student groups (8-10 students) in 4 categories : 5 mins
- Group1 : Outline the Conceptual model
- Group 2 : Design ER diagram
- Group 3 : Outline the steps of normalization
- Group 4 : Apply 1NF,2NF,3NF and BCNF
- Demonstrations by each group ( $1,2,3,4$ ) : 40mins
- Course coordinator summary : 5 mins
- Class of sixty students is best suited for the activity. All students in every group should be able to demonstrate the topic in any dimension.


## Expected Outcomes:

The students can be able to

- Analyze the conceptual model to design ER diagram.
- Understand the three levels of database system architecture with their mappings.
- Understand process and need of normalization
- Summarize normal forms and its applicability

Assessment of the effectiveness of the activity

| Group Id | Number of students | Student Rollno | Assessment before activity (Taken Ass2) | Assessment after activity <br> (Taken Sess2) | Group Score Before (Max:1 0) | Group Score After (Max:1 0) | Impact <br> (Place a tick and state the \% of impact) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & * * 12 \\ & \text { converted to } \\ & 10^{* *} \end{aligned}$ |  |  |  | \% 8 |  | \% | Group \% |
| 1 | 06 | 208W1A1204 | 7 | 7 | 8.6 | 9.1 |  | $\checkmark$ |  | I :$100 \%$ | 05\% <br> Improvem ent after activity |
|  |  | 208W1A1205 | 9 | 10 |  |  |  |  | $\checkmark$ |  |  |
|  |  | 208W1A1207 | 9.5 | 10 |  |  |  |  | $\checkmark$ |  |  |
|  |  | 208W1A1208 | 9.5 | 9.5 |  |  |  | $\checkmark$ |  |  |  |
|  |  | 208W1A1209 | 8.5 | 9.5 |  |  |  |  | $\checkmark$ |  |  |
|  |  | 208W1A1210 | 8.5 | 9 |  |  |  |  | $\checkmark$ |  |  |
|  |  |  |  |  |  |  | 00 | 02 | 04 |  |  |
| 2 | 06 | 208W1A1211 | 8 | 9.5 | 9.2 | 9.33 |  |  | $\checkmark$ | I: <br> 83.2\% | $\begin{aligned} & 1.3 \% \\ & \text { Improve } \end{aligned}$ |
|  |  | 208W1A1215 | 10 | 9 |  |  | $\checkmark$ |  |  | NC:16.6 $\%$ | ment after activity |
|  |  | 208W1A1216 | 9.5 | 9.5 |  |  |  | $\checkmark$ |  |  |  |
|  |  | 208W1A1218 | 9.5 | 9.5 |  |  |  | $\checkmark$ |  |  |  |
|  |  | 208W1A1219 | 9.5 | 9.5 |  |  |  | $\checkmark$ |  |  |  |
|  |  | 208W1A1221 | 9 | 9 |  |  |  | $\checkmark$ |  |  |  |
|  |  |  |  |  |  |  | 01 | 04 | 01 |  |  |
| 3 | 06 | 208W1A1229 | 7.5 | 10 | 8.75 | 9.25 |  |  | $\checkmark$ | I : 50\% | $05 \%$ <br> Improve |
|  |  | 208W1A1232 | 8 | 10 |  |  |  |  | $\checkmark$ |  | ment after |
|  |  | 208W1A1235 | 7.5 | 8 |  |  |  |  | $\checkmark$ |  |  |
|  |  | 208W1A1236 | 10 | 9.5 |  |  | $\checkmark$ |  |  |  |  |
|  |  | 208W1A1237 | 10 | 9 |  |  | $\checkmark$ |  |  |  |  |
|  |  | 208W1A1238 | 9.5 | 9 |  |  | $\checkmark$ |  |  |  |  |




|  | No of <br> students <br> involved <br> Group <br> In | No of students <br> activity | No of <br> sith Negative <br> shange | No of <br> students with <br> without <br> change | Group <br> Score <br> Improvement <br> Before <br> Activity | Group <br> Score <br> After <br> Activity | Group <br> Impact (\%) |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 06 | 00 | 02 | 04 | 8.6 | 9.1 |  |


| 2 | 06 | 01 |  | 94 | 9.2 | 9.33 | 83.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 06 | 03 | 04 | 01 |  |  |  |
| 3 | 06 | 05 | 00 | 01 | 9.75 | 9.25 | 50 |
| 4 | 08 | 01 | 02 | 05 | 8.75 | 9.62 | 8.6 |
| 5 | 01 | 01 | 04 | 7 | 8 | 87.5 |  |
| 6 | 06 | 01 | 01 | 05 | 6.9 | 8.1 | 83.2 |
| 7 | 07 | 04 | 01 | 02 | 8 | 8.1 | 43.2 |
| 8 | 07 | 03 | 00 | 04 | 8.1 | 8.3 | 57.1 |
| 9 | 07 | 02 | 01 | 04 | 8.3 | 8.5 | 71.2 |
| 10 | 07 |  |  |  |  |  |  |



Supporting Evidences of the Activity :



