

A.S.D.GOV.T. DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited with 'B' Grade by NAAC)

(Affiliated to Adikavi Nannaya University)

Jagannaickpur, Kakinada.

DEPARTMENT OF COMPUTER SCIENCE



GUEST LECTURE

2023-2024

A.S.D.GOV.T. DEGREE COLLEGE FOR WOMEN (A)

JAGANNAICKPUR, KAKINADA



DEPARTMENT OF COMPUTER SCIENCE

2023- 2024

GUEST LECTURE

By

Dr.K. V.Sobharani M.C.A., Ph.D.

Lecturer in Computer Applications,
Govt. Degree College,
Ramachandrapuram

Date : 12-06-2024

Topic : Normalization

Conducted by

N.NAGA SUBRAHMANYESWARI, LECTURER IN COMPUTER SCIENCE



K. SURYA LAKSHMI, GUEST LECTURER IN COMPUTER SCIENCE

P.SVD BALLABAMBA, GUEST LECTURER IN COMPUTER APPLICATIONS

A.S.D.GOV.T. DEGREE COLLEGE FOR WOMEN (A), KAKINADA

DEPARTMENT OF COMPUTER SCIENCE

Activity Register 2023-2024

Date	12/06/2024
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.)	Department of Computer Science
Nature of Activity (Seminar/Workshop/Extn. Lecture etc.,)	Guest Lecture
Title of the Activity	Normalization
Name of the Department/Committee	Computer Science
Details of Resource Persons (Name , Designation etc.,)	Dr.K.V.Sobharani Lecturer in Computer Applications, Govt. Degree College, Ramachandrapuram.
No.of students participated	25
Brief Report on the activity	To enable the students to manage data using normal forms.
Name of the Lecturers who Planned & conducted the activity	N.Naga Subrahmanyeswari, Lecturer in Computer Science K. Surya Lakshmi, Guest Lecturer in Computer Science P.SVD Ballabamba, Guest Lecturer in Computer Applications
Signature of the Dept.In-Charge/ Convener of the Committee	 IN-CHARGE DEPT. OF COMPUTER SCIENCE ASDGOVT DEGREE COLLEGE (W) AUTONOMOUS KAKINADA
Signature of the Principal	 PRINCIPAL A.S.D.GOV.T.DEGREE COLLEGE (W) AUTONOMOUS KAKINADA
Remarks	

(* Brief Report of the activity has to be submitted along with evidences(Correspondence , Photographs, Paper Clippings, and Student Feedback etc).A separate record has to be prepared for each Academic year. The College Activity Register shall be with the Principal. All activities have to be recorded and the serial no of the activity has to be mentioned on the report of the activity.)

PERMISSION LETTER

Kakinada,
Date: 07-06-2024.

To,
Dr. V.Anantha Lakshmi,
Principal,
A.S.D. Govt. Degree College for Women (A),
Kakinada.

From,
N.Naga Subrahmanyeswari,
Incharge - Department of Computer Science & Computer Applications,
A.S.D. Govt. Degree College for Women (A),
Kakinada.

Sub: Request to organize Guest Lecture on “Normalization” for III B.Com.(CA) on 12-06-2024 -Reg.

Respected Madam,

The Department of Computer Science wishes to organize an Guest Lecture on “Normalization” for III B.Com.(CA) on 12-06-2024, and the Resource Person is Dr.K.V.Sobharani, Lecturer in Computer Applications in GDC Ramachandrapuram. This activity shall enhance the knowledge of the Normalization. Kindly do the needful.

Thanking you, Madam.

Yours faithfully,

N.N.S. Eswari
INCHARGE
DEPT. OF COMPUTER SCIENCE
ASD GOVT DEGREE COLLEGE (W) (AUTONOMOUS)
KAKINADA

A.S.D.GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)

Affiliated to Adikavi Nannaya University
Jagannaickpur, Kakinada.

DEPARTMENT OF COMPUTER SCIENCE

CIRCULAR



Date: 07-06-2024

The Department of computer Science wishes to organize a Guest Lecture on “Normalization” on 12-06-2024 in RB IV for III B.Com.(CA) students to acquire basic knowledge about Normalization and enhance their skills.

N.N.S. Eswari
IN-CHARGE
DEPT. OF COMPUTER SCIENCE
ASD GOVT DEGREE COLLEGE (W/AUTONOMOUS)
KAKINADA

In-Charge of the Department

V. N. S. D.
PRINCIPAL
A.S.D. GOVT. DEGREE COLLEGE (W/A)
AUTONOMOUS
KAKINADA

Principal

A.S.D.GOV.T.DEGREE COLLEGE FOR WOMEN (A), KAKINADA

DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE



NAME OF THE GUEST : **Dr.K.V.Sobharani**, M.C.A., Ph.D.
Lecturer in Computer Applications,
Govt. Degree College,
Ramachandrapuram

TOPIC : **Normalization**

DATE : 12-06-2024

VENUE : **RB-IV**

N.N.S. Eswari
IN-CHARGE
DEPT. OF COMPUTER SCIENCE
ASD GOVT DEGREE COLLEGE (W) AUTONOMOUS
KAKINADA

IN-CHARGE OF THE DEPARTMENT

A.S.D.GOV.T.DEGREE COLLEGE FOR WOMEN (A) KAKINADA

DEPARTMENT OF COMPUTER SCIENCE

INVITATION



The Department of Computer Science wishes to arrange A Guest Lecture
on
12-06-2024 at 12.00 P.M. in RB-4

Subject: Database Management System
Topic: Normalization

BY

Dr.K.V.Sobharani, M.C.A., Ph.D.
Lecturer in Computer Applications,
Govt. Degree College,
Ramachandrapuram.

N.N.S. Eswari
IN-CHARGE
DEPT OF COMPUTER SCIENCE
ASD GOVT DEGREE COLLEGE (W) (AUTONOMOUS)
KAKINADA

In-Charge of the Department

V. N. S.
PRINCIPAL
A.S.D.GOV.T.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA
Principal

A.S.D.GOV.T. DEGREE COLLEGE FOR WOMEN(A)

DEPARTMENT OF COMPUTER SCIENCE




GUEST LECTURE


A Guest Lecture is conducted for the Students of III B.Com (C.A.)

Name of the Guest : **Dr.K.V.Sobharani** M.C.A., Ph.D.
Lecturer in Computer Applications,
Govt. Degree College,
Ramachandrapuram.

TOPIC	VENUE	DATE	TIME	MODE OF DELIVERY
Normalization	RB-IV	12-06-2024	12:00 PM TO 1:00 PM	Offline

Signatures of the Lecturers Attended:

1. 
2. 
3. 


PRINCIPAL
A.S.D.GOV.T.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA
Signature of the Principal

A.S.D.GOV.T. DEGREE COLLEGE FOR WOMEN(A)

KAKINADA

DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE

Topic: Normalization

Date: 12-06-2024

Venu: RB-IV

Time: 12PM – 1 PM

S.No.	Reg.No	Name of the Student	Class
1	2123001	RATCH JOGESWARI	III B.Com.(CA)
2	2123002	DASARI MADHUSRI	III B.Com.(CA)
3	2123004	KUNCHAM SNEHALATHA	III B.Com.(CA)
4	2123005	NAGARABOINA MOUNIKA	III B.Com.(CA)
5	2123006	PALEPU DIVYA	III B.Com.(CA)
6	2123007	PINAPOTHU BHAVANI	III B.Com.(CA)
7	2123008	TALABHATHULA MAHA	III B.Com.(CA)
8	2123009	THANDRA LAKSHMI SRAVANI	III B.Com.(CA)
9	2123010	ARAVA ANUSHA	III B.Com.(CA)
10	2123011	BALLA SIRISHA	III B.Com.(CA)
11	2123012	CHAPALA PUSHPANJALI	III B.Com.(CA)
12	2123013	DARAKONDA KEERTHANA	III B.Com.(CA)
13	2123014	DEVU SANDHYA RANI	III B.Com.(CA)
14	2123015	GAMPALA MUNNI	III B.Com.(CA)
15	2123017	GEDDADD SAI PAVANI	III B.Com.(CA)
16	2123021	JONNADA ANUSRI	III B.Com.(CA)
17	2123022	KAVATARAPU LAKSHMI DEVI	III B.Com.(CA)
18	2123023	MATCHA MOUNIKA	III B.Com.(CA)
19	2123024	PALLAPROLU ANJALI	III B.Com.(CA)
20	2123025	PALLETI MANEESHA	III B.Com.(CA)
21	2123026	PEYYALA SANDHYA	III B.Com.(CA)
22	2123027	REDDY HEMA LATHA	III B.Com.(CA)
23	2123028	REVVU ANUSHA	III B.Com.(CA)
24	2123029	SARAKANAM VIJAYA DURGA	III B.Com.(CA)
25	2123036	YELLEM SARVANI	III B.Com.(CA)

REPORT ON THE ACTIVITY

Dr.K.V.Sobharani, Lecturer in Computer Applications, Government Degree College Ramachandrapuram, has delivered a Guest Lecture on “Normal Forms” to the students of II B.Sc. (M.P.Cs) and II B.Com. (C.A) on 12-06-2024 from 12P.M to 1P.M. Students attended the Guest Lecture in RB-4.She expressed her views on the following topics

What is Normalization?

- Normalization is the process of organizing the data in the database.
- Normalization is used to minimize the redundancy from a relation or set of relations. It is also used to eliminate undesirable characteristics like Insertion, Update, and Deletion Anomalies.
- Normalization divides the larger table into smaller and links them using relationships.
- The normal form is used to reduce redundancy from the database table.

Why do we need Normalization?

The main reason for normalizing the relations is removing these anomalies. Failure to eliminate anomalies leads to data redundancy and can cause data integrity and other problems as the database grows. Normalization consists of a series of guidelines that helps to guide you in creating a good database structure.

Data modification anomalies can be categorized into three types:

- **Insertion Anomaly:** Insertion Anomaly refers to when one cannot insert a new tuple into a relationship due to lack of data.
- **Deletion Anomaly:** The delete anomaly refers to the situation where the deletion of data results in the unintended loss of some other important data.
- **Updatation Anomaly:** The update anomaly is when an update of a single data value requires multiple rows of data to be updated.

Types of Normal Forms:

Normalization works through a series of stages called Normal forms. The normal forms apply to individual relations. The relation is said to be in particular normal form if it satisfies constraints.

Following are the various types of Normal forms:

	1NF	2NF	3NF	4NF	5NF
Decomposition of Relation	R	R ₁₁ R ₁₂	R ₂₁ R ₂₂ R ₂₃	R ₃₁ R ₃₂ R ₃₃ R ₃₄	R ₄₁ R ₄₂ R ₄₃ R ₄₄ R ₄₅
Conditions	Eliminate Repeating Groups	Eliminate Partial Functional Dependency	Eliminate Transitive Dependency	Eliminate Multi-values Dependency	Eliminate Join Dependency

Normal Form	Description
1NF	A relation is in 1NF if it contains an atomic value.
2NF	A relation will be in 2NF if it is in 1NF and all non-key attributes are fully functional dependent on the primary key.
3NF	A relation will be in 3NF if it is in 2NF and no transition dependency exists.
BCNF	A stronger definition of 3NF is known as Boyce Codd's normal form.
4NF	A relation will be in 4NF if it is in Boyce Codd's normal form and has no multi-valued dependency.
5NF	A relation is in 5NF. If it is in 4NF and does not contain any join dependency, joining should be lossless.

Advantages of Normalization

- Normalization helps to minimize data redundancy.
- Data consistency within the database.
- Much more flexible database design.

Disadvantages of Normalization

- You cannot start building the database before knowing what the user needs.
- The performance degrades when normalizing the relations to higher normal forms, i.e., 4NF, 5NF.



Students enthusiastically listening to the Guest Lecture

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DEPARTMENT OF COMPUTER SCIENCE

FEEDBACK ON THE GUEST LECTURE

Name of the Participant:

1. How satisfied are you with the overall quality of the lecture?

- A. Very Satisfied
- B. Satisfied
- C. Neutral
- D. Unsatisfied

2. Did the lecture enhance your knowledge on the topic?

- A. Strongly Agree
- B. Agree
- C. Neutral
- D. Disagree

3. How relevant was the content of the lecture to your curriculum needs?

- A. Extremely Relevant
- B. Very Relevant
- C. Moderately Relevant
- D. Slightly Relevant

4. Do you feel the lecture provided practical insights that you can apply?

- A. Strongly Agree
- B. Agree
- C. Neutral
- D. Disagree

5. Any additional comments or suggestions?

Signature of the Participant