DEPARTMENT OF COMPUTER SCIENCE

Add-On Course Documents

Title: Database Management System

Academic Year: 2019-2020

Sl.No	Particulars
1	Declaration
2	Permission letter
3	Brochure
4	Notice
5	Syllabus
6	Timetable
7	Attendance
8	Summary Report
9	Model certificate
10	Question Paper
11	Marks Sheet

Date: 5/11/2019

TO WHOMEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add_On course on, "**Database Management System**" with the duration of 35 hours introduced in 2019-20. The said programme is apart from the existing course curriculum.

Head of the Department

Head of Department
Computer Science
L. V. D. College,
RAICHUR-584 101

Principal

PRINCIPAL
L.V.D. College, RAICHUR-03.

Date: 5|11|2019

To
The Principal,
LVD College, Raichur.

From
HoD.
Computer Science Department.

Respected Sir,

Sub: Permission to start an Add-On course

With respect to the above-cited subject I, the undersigned request you to grant permission to start an Add-On course titled **"DATABASE MANAGEMENT SYSTEM"** for B.ScIII semester students. The details of the syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,

Yours Faithfully
Head of Department
Computer Science
L. V. D. College,
RAICHUR-584 101.

PRINCIPAL
Laxmi Venkatesh Desai College,
RAICHUR.

Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE, RAICHUR.

RE-ACCREDITED BY NAAC WITH B GRADE

Department of Computer Science
Offering Add_On Course on
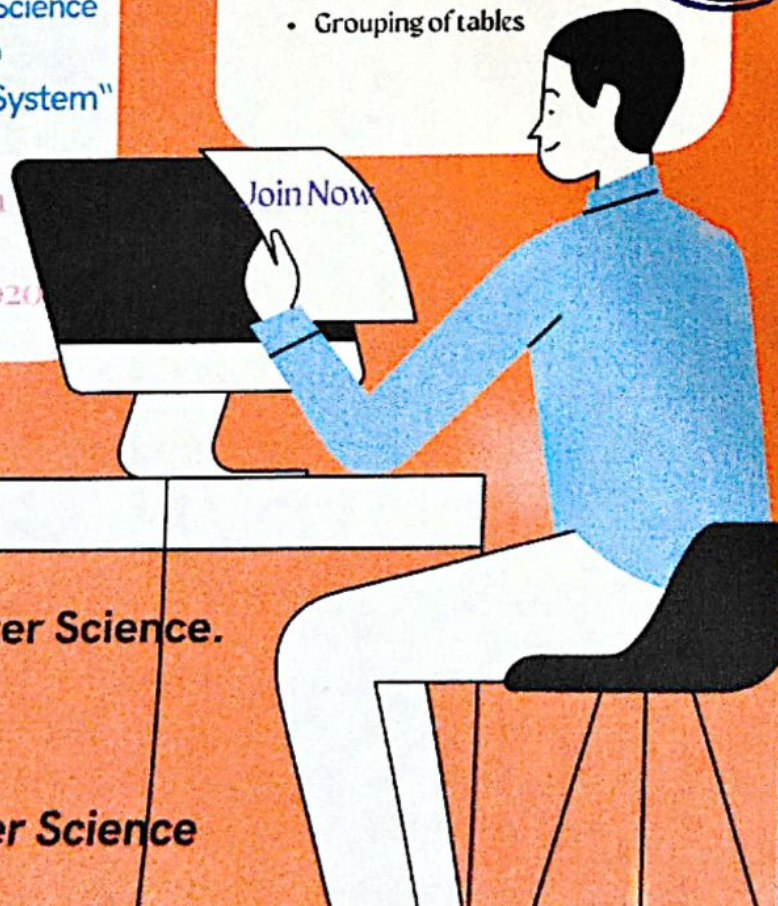
"Data Base Management System"

For B.Sc Students
Duration: One Month
2019-2020
Sarts From: 06-01-2020

Contact:

**1) M.A. Kareem
H.O.D
Department of Computer Science.
2) Swathi Dixit.
Lecturer
Department of Computer Science**

Course Includes:

- DataBase Concepts: Benefits of DBMS, Structured Query Language
- Data Constraints.
- Various Keys.
- Interactive SQL part.
- Grouping of tables

Join Now

THE BENEFITS OFFERED BY AN SDBMS

BETTER COMMUNICATION
SIMPLIFIED ADMISSION PROCESS
STREAMLINED ACTIVITIES
EASIER TRANSPORT MANAGEMENT
FASTER ATTENDANCE MANAGEMENT
AUTOMATIC TIMETABLE GENERATOR
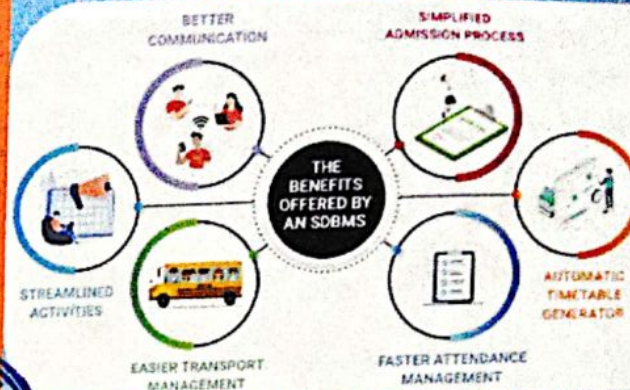
Objectives

- Students will be able to create table that store, access, and use data stored in the database
- It allows them to perform simple SQL queries to produce the desired results.
- They will understand Data Integrity where data is consistent and accurate in the database.
- Better data integration.
- Minimized Data Inconsistency. .
- Faster Data Access.
- Better decision making.
- Simplicity.
- Recovery and Backup.

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L.V.D. College, Raichur-Q

Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Department of Computer Science

Notice

All the B.Sc III Semester students are hereby informed to join and get the benefit of the Add-On course titled **"DATABASE MANAGEMENT SYSTEM"** starting from 6th January 2020 at 1:40 PM to 2:30 PM

This course enables you to create and maintain a database. It is general-purpose software that provides users with the processes of defining, constructing, and manipulating the database for various applications.

B.Sc. I year

B.Sc III

B.A I year.

B.Sc II Year

Signature of HoD
Computer Science
L. V. D. College,
RAICHUR-584 101

PRINCIPAL
L.V.D. College, RAICHUR-03.

B.A. I year

B.A. I year

Reddy 23/12/2019

B.A III year

Department of Computer Science

Course Title: DataBase Management System
Duration: 35 hrs

This Course is for B.Sc III Semester Students

Course Overview:

This course introduces the core principles and techniques required in the design and implementation of database systems. This course focus on relational database management systems, including database design theory: E-R modeling, data definition and manipulation languages, database security and administration. It also covers essential DBMS concepts such as: Transaction Processing, Concurrency Control and Recovery and various types of databases like distributed database, and intelligent database; Client/Server. Students undertake a semester project to design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS. It also provides students with theoretical knowledge and practical skills in the use of databases and database management systems in information technology applications.

Topics:

Contents	Hours
DataBase Concepts: Benefits of DBMS, Structured Query Language, table fundamentals, the create command, viewing data in the tables, eliminating duplicate rows when using a select statement, sorting data in a table, creating table from a table, inserting data into a table from another table, delete operation, updating the contents of tables, modifying the structure of tables, renaming, truncating and destroying tables.	15
Data Constraints: Types of data constraints, I/O constraints, primary key, foreign key, unique key, NULL value concepts, NOT NULL constraints, computations done on table data, The use of LIKE predicate, Oracle functions, date conversion functions, date functions.	15
Interactive SQL part: Grouping data from tables in SQL,GROUP By clause, HAVING clause, ROLLUP and CUBE operator, Subqueries, Joins, concatenation, union, intersect and minus clause.	05

Course Outcome:

This will allow students to create table that store, access, and use data stored in the database and it allows them to perform simple SQL queries to produce the desired results.

References:
1. DATABASE SYSTEMS Models, Languages, Design and Application Programming, 6 th Edition, Ramez Elmasri ,Shamkant B.Navathe , Pearson

Head of the Department
Head M.A.Kareem
Computer Science
L. V. D. College.
RAICHUR-584 101

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LAXMI VENKATESH DESAI COLLEGE, RAICHUR

Database Management System

Time Table with effect from 6/1/2020 Class B.Sc III Department Computer Science Section _____ Room No. CS-Lab

Time → Days ↓	9:30	10:20	11:10	12:00	12:50	1:40	2:30	3:20	4:10
Mon						DBMS			
Tue						—do—			
Wed						—do—			
Thu						—do—			
Fri						—do—			
Sat						—do—			

Head of Department

Head of Department
Computer Science
L.V.D. College,
RAICHUR-584 101

Name of the Staff : B Reddy

Principal

PRINCIPAL
L.V.D. College, RAICHUR-03.

ವಿದ್ಯಾರ್ಥಿಗಳ ಹಾಜರ ಪುಸ್ತಕ

ಶಾಲೆಯ ಹೆಸರು : Laxmi Venkatesh Desai college
ಮಾಹೆ : 2019-20   ತರಗತಿ : B.Sc I sem

STUDENT'S ATTENDANCE REGISTER

Name of the School _____
Month of _____ 2019-20   Class : B.Sc I sem

Roll No.	Admission No.	Date of Birth	Name of the Student	Caste	Attendance (days)	No. of days present	Total No. of Attendance	Date of original admission	Remarks
1	1953297		Bhagyashree		P P P P P A P P P P ...				
2	1953469		Guru Patil		P P P P P A P A A P ...				
3	1953250		Aishwarya. H		P P P P P A P P A A ...				
4	1953249		Ruthu Desai		P P P P P P P P P P ...				
5	1953464		Sushma		P P A P P P P P A A ...				
6	1953199		Madhuri		P P P P A P P P A P ...				
7	1953305		Nauseen		P P P A P P A P P P P ...				
8	1953435		Harsha		P P P P P P P P P P ...				
9	1953339		Aparna		P P P P P A P P P P ...				
10	1953157		Hemavalli		P P P P P A P P P P ...				
11	1953274		Ritu		P P P P P P P P P P ...				
12	1953487		Rakesh		A P P A P P P A P A A ...				
13	1953398		Ganesh		A P P P P P A P P P P ...				
14	1953302		Manikanta		P P A P P P P P P P P ...				
15	1953394		Manjunath		P A P A P P P A P P P ...			Theory 14 hrs	
16	1953508		Badesab		P P P P A A P P P P P ...			Prac Hrs 20 hrs	
17	1953535		Mounesh		P P A A P P P A P P P ...			Total 34 hrs	
18	1953139		Pooja		P P P P P P A P P P ...				
19	1953487		Deepika		P P A P P A P P P P ...				
20	1953239		Priyanka		P P P P P P P P P P ...				
21	1953151		Steve Adam		P P P P A P P P P P ...				
22	1953264		Suresh		P A P P P P P P A A ...			Dr. Padmavathi	
23	1953263		Erawa		A A P P P P P P A A ...				
24	1953291		Murugarajendra		P A P P P P P P P P ...				
25	1953271		Virendra		A P P P A P P P A A ...				
26	1953498		Naveen		A P P P P A P P P P ...				

No. Present Daily ದಿನವಹಿ ಹಾಜರಾದವರ ಸಂಖ್ಯೆ

Total No. in the Register ಪುಸ್ತಕದಲ್ಲಿರುವ ಒಟ್ಟು ಸಂಖ್ಯೆ

Faculty : Swathi Dixit

ಆರಂಭದಲ್ಲಿ ಫೋಲ್ಡಾರ್ Abstract in the beginning					
	SC	ST	Minorities	Others	Total
ಗಂಡು/Boys					
ಹೆಣ್ಣು/Girls					
ಒಟ್ಟು/Total					

1) Number at the beginning of the Month ತಿಂಗಳ ಪ್ರಾರಂಭದಲ್ಲಿದ್ದವರ ಸಂಖ್ಯೆ : _____

2) Admission during the month ತಿಂಗಳಲ್ಲಿ ದಾಖಲಾದವರ ಸಂಖ್ಯೆ : _____

3) No. left during the month ತಿಂಗಳಲ್ಲಿ ಕಾಲಿ ಬಿದ್ದವರ ಸಂಖ್ಯೆ : _____

4) Number at the end of the month ತಿಂಗಳ ಅಂತ್ಯದಲ್ಲಿದ್ದವರ ಸಂಖ್ಯೆ : _____

ತರಗತಿ ಗುರುಗಳ ಸಹಿ / Class Teacher Signature

5) No. of School working days ಶಾಲೆ ನಡೆದ ದಿನಗಳ ಸಂಖ್ಯೆ : _____

6) Average number on the roll during the month ತಿಂಗಳಲ್ಲಿ ಪುಸ್ತಕದಲ್ಲಿರುವ ಸರಾಸರಿ ಸಂಖ್ಯೆ : _____

7) Average attendance during the month ತಿಂಗಳಲ್ಲಿ ಸರಾಸರಿ ಹಾಜರಿ : _____

8) Percentage of [6] and [7] (6) ಮತ್ತು (7)ರ ಶೇಕಡಾ ಸರಾಸರಿ : _____

ಮುಖ್ಯ ಗುರುಗಳ ಸಹಿ / Head Master Signature

ಅಂತ್ಯದಲ್ಲಿ ಫೋಲ್ಡಾರ್ Abstract at the end					
	SC	ST	Minorities	Others	Total
ಗಂಡು/Boys					
ಹೆಣ್ಣು/Girls					
ಒಟ್ಟು/Total					

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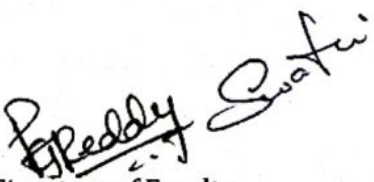
Department of Computer Science

Report of Add-On course

Add-On course:	DataBase Management System
Duration:	34 hrs
Started on:	6-1-2020
Completed on:	7-2-2020
Name of the faculty:	Swathi Dixit and Dr.Padmavathi
Total No of students admitted	26
Total No of classes taken	34
Total No of students benefited	26

There were 26 students who joined the course and attended all the classes.

The Add-On course helped to understand the design and implementation of database systems. It also covered essential DBMS concepts such as: Transaction Processing, Concurrency Control and Recovery, and various types of databases like distributed databases, and intelligent database, Client/Server. Students are able to design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS. The students gained theoretical knowledge and practical skills in the use of databases and database management systems in information technology applications.

Signature of Faculty

Signature of HoD
Head of Department
Computer Science
L. V. D. College.
RAICHUR-584 101.

PRINCIPAL
L.V.D. College, RAICHUR-03.

Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE RAICHUR

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

Certificate

This is to Certify that Miss. / Mr. ......Aishwarya .H.........................

of ....B.sc III semester............... has completed the Certificate Course in

DataBase Management System.

Conducted by the Department of ....Computer Science.................from

6th Jan 2020 to 7th Feb 2020.

Head of the Department
Computer Science

Principal

Laxmi Venkatesh Desai College, Raichur
Department of Computer Science

Class: B.Sc
Sub:Database Management System

Max Marks: 50
Time: 1hr

I. Answer the following questions.

1. Which of the following is not a characteristic of a relational database model?
A. Table
B. Tree like structure
C. Complex logical relationship
D. Records

2. Field is otherwise called as ..... of the record
A. data item
B. data type
C. value
D. variable

3. A table can have only one
A. Secondary key
B. Alternate key
C. Unique key
D. Primary key

4. A field can be called as .... in relation context.
A. random file
B. direct file
C. attribute
D. tuple

5. In the relational modes, cardinality is termed as
A. Number of tuples
B. Number of attributes
C. Number of tables
D. Number of constraints

6. The .... is used for creating and destroying table, indexes and other forms of structures.
A. data manipulation language
B. data control language
C. transaction control language
D. data definition language

7. The view of total database content is
A. Conceptual view
B. Internal view
C. External view
D. Physical view

8. Architecture of the database can be viewed as
A. two levels
C. three levels
B. four levels
D. one level

9. The ....refers to the way data is organized in and accessible from DBMS.

A. database hierarchy
c. data organization
B. data sharing
D. data model

10. As per equivalence rules for query transformation, selection operation distributes over
A. Union
B. Intersection
C. Set difference
D. All of the above

11. In a relational model, relations are termed as
A. Tuples
B. Attributes
C. Tables
D. Rows

12. In E-R diagram generalization is represented by
A. Ellipse
B. Dashed ellipse
C. Rectangle
D. Triangle

13. In the architecture of a database system external level is the
A. physical level
B. logical level
C. conceptual level
D. view level

14. A functional dependency is a relationship between or among ....
A. tables
B. rows
C. relations
D. attributes

15. Related fields in a database are grouped to form a
A. data file
B. data record
C. menu
D. bank

16. .... is, a table have more than one set of attributes that could be chosen as the key
A. foreign key
B. integrity key
C. relationship
D. candidate key

17. The database environment has all of the following components except.
A. users
B. separate files
C. database
D. database administrator

18. The operation of eliminating columns in a table done by .. operation.
A. Restrict
B. Project
C. Union
D. Divide

19. The way a particular application views the data from the database that the application uses is a
A. module
B. relational model
C. schema
D. sub schema

20. What is a data integrity?
A. It is the data contained in database that is non redundant.
B. It is the data contained in database that is accurate and consistent.
C. It is the data contained in database that is secured.
D. It is the data contained in database that is shared.

21. A relational database developer refers to a record as
A. a criteria
B. a relation
C. a tuple
D. an attribute

22. keyword is used to find the number of values in a column.
A. TOTAL
B. COUNT
C. ADD
D. SUM

23. An advantage of the database management approach is
A. data is dependent on programs
B. data redundancy increases
C. data is integrated and can be accessed by multiple programs
D. none of the above

24. The collection of information stored in a database at a particular moment is called as ......
A. schema
B. instance of the database
C. data domain
D. independence

25. Data independence means
A. data is defined separately and not included in programs.
B. programs are not dependent on the physical attributes of data
C. programs are not dependent on the logical attributes of data
D. both B and C

26. .... A is used to define overall design of the database
A. schema
B. application program
C. data definition language
D. code

27. Key to represent relationship between tables is called
A. primary key
B. secondary key
C. foreign key
D. none of the above

28. .... Grant and revoke are statements.
A. DDL
B. TCL
C. DCL
D. DML

29. DBMS helps achieve
A. Data independence
B. Centralized control of data
C. Neither A nor B
D. Both A and B

30. command can be used to modify a column in a table
A. alter
B. update
C. set
D. create

31. The RDBMS terminology for a row is
A. tuple
B. relation
C. attribute
D. degree

32. To change column value in a table the ... command can be used.
A. create
B. insert
C. alter
D. update

34. To pass on granted privileges to other user the   clause is used
A. create option
B. grant option
C. update option
D. select option

35. A set of possible data values is called
A. attribute
B. degree
C. tuple
D. domain

36. Is critical in formulating database design.
A. row column order
B. number of tables
C. functional dependency
D. normalizing

37. A primary key if combined with a foreign key creates
A. Parent-Child relationship between the tables that connect them
B. Many to many relationship between the tables that connect them
C. Network model between the tables that connect them
D. None of the above

38. A .... represents the number of entities to which another entity can be associated
A. mapping cardinality
B. table
C. schema
D. information

39. Which two files are used during operation of the DBMS
A. Query languages and utilities
B. DML and query language
C. Data dictionary and transaction log
D. Data dictionary and query language

40. A .... is a set of column that identifies every row in a table.
A. composite key
B. candidate key
C. foreign key
D. super key

41. The language that requires a user to specify the data to be retrieved without specifying exactly howto get it is
A. Procedural DML
B. Non-Procedural DML
C. Procedural DDL
D. Non-Procedural DDL

42. Which two files are used during operation of the DBMS?
A. Query languages and utilities
B. DML and query language
C. Data dictionary and transaction log
D. Data dictionary and query language

43. The database schema is written in
A. HLL
B. DML
C. DDL
D. DCL

44. An entity set that does not have sufficient attributes to form a primary key is a
A. strong entity set
B. weak entity set
C. simple entity set
D. primary entity set

45. The relational model feature is that there
A. is no need for primary key data
B. is much more data independence than some other database models
C. are explicit relationships among records.
D. are tables with many dimensions

46. Which one of the following statements is false?
A. The data dictionary is normally maintained by the database administrator
B. Data elements in the database can be modified by changing the data dictionary.
C. The data dictionary contains the name and description of each data element.
D. The data dictionary is a tool used exclusively by the database administrator.

47. Which are the two ways in which entities can participate in a relationship?
A. Passive and active
B. Total and partial
C. Simple and Complex
D. All of the above

48. Which database level is closest to the users?
A. External
B. Internal
C. Physical
D. Conceptua

49. Which are the two ways in which entities can participate in a relationship?
A. Passive and active
B. Total and partial
C. Simple and Complex
D. All of the above

50. .... Data type can store unstructured data
A. RAW
B. CHAR
C. NUMERIC
D. VARCHAR

TSS

Laxmi Venkatesh Desai College, Raichur.
Department of Computer Science
ADD-On Course

Class: B.SC

Sub: DBMS

SL.NO	Register_No	Name	Marks	Signature
1	1953139	POOJA	49	Pooja
2	1953151	STEVE ADAM	48	Steve
3	1953157	HEMAVATHI	48	Hema
4	1953199	MADHURI INAMDAR V	48	M
5	1953227	BHAGYASHREE	49	Bhagya
6	1953239	PRIYANKA S P	48	Priya
7	1953242	RUTHU	49	R
8	1953250	AISHWARYA HONAKUNTI	49	Aishwarya
9	1953263	EARANNA A	46	Erana
10	1953264	SURESH	45	Sures
11	1953271	VIJENDRA R K	47	Vijndra
12	1953274	RITU	48	Ritu
13	1953291	MURUGHARAJENDRA SWAMY	44	Murugha
14	1953302	MANIKANTHA	47	Mani
15	1953305	SAFOORA NAUSHEEN	48	Nau
16	1953328	POTHULA GANESH	48	Gani
17	1953339	P. APARNA	48	Apar
18	1953394	MANJUNATH T	45	R
19	1953435	HARSHA REDDY	46	H
20	1953464	K SUSHMA	48	Susha
21	1953469	SUMA PATIL	48	Suma
22	1953487	RAKESH M	47	Rakesh
23	1953506	DEEPIKA S M	48	Deepu
24	1953508	BADESAB	47	Badsab
25	1953535	MOUNESH RATHOD	46	Maunes
26	1953498	NAVEEN	44	Naveen

Staff Incharge
Swathi Dixit

Swathi