

Dr. B.B. Hegde First Grade College, Kundapura

Data Science Final Certificate Examination

August-2023-24 (Even Semester)

Students' Attendance

Roll No.	Signature
I B.Com 'E'	
BCM23271	
BCM23272	
BCM23273	Anmol
BCM23274	Anvitha
BCM23275	Anvesha.
BCM23276	Anvith
BCM23277	Apoorva
BCM23278	Anya
BCM23279	Ishanya
BCM23280	Rhundeela
BCM23281	Chethali
BCM23282	
BCM23283	
BCM23284	
BCM23285	Deekshitha
BCM23286	Deepthi
BCM23287	Rishika
BCM23288	Dnya
BCM23289	
BCM23290	Gowthami
BCM23291	Amello...
BCM23292	Harshal
BCM23293	
BCM23294	Kruphara
BCM23295	Ksham
BCM23296	Kishor
BCM23297	Boornachandra Menija
BCM23298	
BCM23299	
BCM23300	Mithilesh.
BCM23301	
BCM23302	Narmatha
BCM23303	
BCM23304	Naveen
BCM23305	
BCM23306	
BCM23307	Nekhalha
BCM23308	
BCM23309	Nisheer
BCM23310	Rhundeela
BCM23311	Ravon

Dr. B.B. Hegde First Grade College
Kundapura 576501
Principal

Dr. B.B. Hegde First Grade College, Kundapura
Data Science Final Certificate Examination
August-2023-24 (Even Semester)
Students' Attendance

Roll No.	Signature
1 B.Com 'R'	
BCM23316	
BCM23317	
BCM23318	
BCM23319	
BCM23320	
BCM23321	
BCM23322	
BCM23323	
BCM23324	
BCM23325	
BCM23326	
BCM23327	
BCM23328	
BCM23329	
BCM23330	
BCM23331	
BCM23332	
BCM23333	
BCM23334	
BCM23335	
BCM23336	
BCM23337	
BCM23338	
BCM23339	
BCM23340	
BCM23341	Absent - - -
BCM23342	
BCM23343	
BCM23344	
BCM23345	
BCM23346	
BCM23347	
BCM23348	
BCM23349	
BCM23350	
BCM23351	
BCM23352	
BCM23353	

Principal
 Dr. B. Hegde First Grade College
 Kundapura



SRI EDTECH



SYLLABUS ANALYSIS SHEET

INTRODUCTION TO PYTHON

TOPICS COVERED

I BCom (Data Science)

DATE	TIME	THEORY	DATE	TIME	LAB
15-03-2024.	9:45 - 10:35	UNIT I Introduction to Python	16-03-2024.	1:05 - 2:50	Installation - Basic Introduction to Programming
16-03-2024.	10:35 - 12:25	Advantages and Disadvantages - Variables - DataTypes			
22-03-2024.	9:45 - 11:30	Operators - Types of Operators - Math Functions	23-03-2024.	1:05 - 2:50	I/O Statements Programs
23-03-2024.	11:35 - 12:25	String Operators and Functions UNIT II Introduction to Decision-Making Statements - Types and Examples			ASCII Values - Math Functions
29-03-2024.	9:45 - 10:35	GOOD FRIDAY	30-03-2024.	1:05 - 2:50	INTERNAL EXAM - 1
30-03-2024.	11:35 - 12:25	INTERNAL EXAM - 1			
05-04-2024.	9:45 - 10:35	Conditional Statements - Syntax - Examples with execution	06-04-2024.	1:05 - 2:50	Operators
06-04-2024.	11:35 - 12:25	Looping Statements			Discussion of answers to IA - I
12-04-2024.	9:45 - 10:35	List - Indexing - Insertion - Update - Deletion - built-in ()	13-04-2024.	1:05 - 2:50	Conditional Statements - Control Statements
13-04-2024.	11:35 - 12:25	Tuple - Indexing			Programs on List & Tuples
19-04-2024.	9:45 - 10:35	Dictionary - Declaration - Insertion - Deletion	20-04-2024.	1:05 - 2:50	Programs on List, Tuples, Dictionary
20-04-2024.	11:35 - 12:25	File Handling			Practicals on File Handling
26-04-2024.	9:45 - 10:35	ELECTION	27-04-2024.	1:05 - 2:50	Dealing with syntax errors-Exceptions
27-04-2024.	10:35 - 12:25	RE objects - Pattern matching - Parsing data			
03-05-2024.	9:45 - 10:35	Revision on UNIT I, II, IV, V - Introduction to Python Libraries	04-05-2024.	1:05 - 2:50	Python Libraries - Series and DataFrame
04-05-2024.	10:35 - 12:25	Regression Analysis - Why do we need Regression Analysis - Types of Regression Analysis			Basic Functions
10-05-2024.	9:45 - 10:35	FOUNDER'S DAY	11-05-2024.	1:05 - 2:50	COLLEGE DAY
11-05-2024.	11:35 - 12:25	COLLEGE DAY			

17-05-2024.	9:45 - 10:35	Important Points on Linear and Logistic Regression - Benefits with Examples	18-05-2024.	1:05 - 2:50	GroupBy, Aggregate functions, merge, sort()
18-05-2024.	11:35 - 12:25	EDA			Practicals on EDA and Statistical Summary
19-05-2024.	9:30 - 11:00	Statistical Summary	19-05-2024.	11:00 - 12:30	INTERNAL EXAM - 2
24-05-2024.	9:45 - 10:35	INTERNAL EXAM - 2	25-05-2024.	1:05 - 2:50	
25-05-2024.	11:35 - 12:25				
31-05-2024.	9:45 - 10:35				

SRI EDTECH



STUDENTS ATTENDANCE LIST

SL.NO	USN	NAME	16-03-2024.	23-03-2024.	30-03-2024.	06-04-2024.	13-04-2024.	20-04-2024.	27-04-2024.	04-05-2024.	11-05-2024.	18-05-2024.	19-05-2024.	25-05-2024.
1	BCM23271	ABHILASH	A	P		P	A	P	P	A		P	P	
2	BCM23272	AISHWARYA D RAO	A	P		P	A	P	P	OD		P	A	
3	BCM23273	AMITH	P	P		P	A	A	P	P		P	P	
4	BCM23274	ANANTHESHWARA ADIGA	P	P		A	A	A	P	P		P	P	
5	BCM23275	ANUSHA	P	P		P	P	A	P	P		P	P	
6	BCM23276	ANVITH	P	P		A	P	P	P	P		P	P	
7	BCM23277	APOORVA	P	P		P	P	P	P	P		P	P	
8	BCM23278	ARYA C PUTHRAN	A	OD		P	P	P	P	P		P	P	
9	BCM23279	BHAVYASHREE	P	P		A	A	A	A	P		A	A	
10	BCM23280	BHUMIKA	P	P		P	P	P	P	P		P	P	
11	BCM23281	CHAITHALI	P	P		P	P	P	P	P		P	P	
12	BCM23282	CHANDAN	P	OD		P	P	P	P	P		P	P	
13	BCM23283	CHINMAY	A	P		P	A	P	P	P		P	P	
14	BCM23284	CRIS JOHNSON OLIVERA	A	P		P	A	A	A	P		P	P	
15	BCM23285	DEEKSHITHA	P	P		P	A	A	P	P		A	A	
16	BCM23286	DEEPTHI R	P	P		P	P	P	P	P		P	P	
17	BCM23287	DERICK D SOUZA	P	P		P	A	A	P	P		P	P	
18	BCM23288	DIVYA	P	P		P	A	A	P	P		P	A	
19	BCM23289	GLANISH MENDONCA	P	P		A	P	A	P	P		P	P	
20	BCM23290	GOWTHAMI	P	P		P	P	P	P	P		P	A	
21	BCM23291	GRAVIN DMELLO	A	P		P	P	P	P	P		A	A	
22	BCM23292	HARSHAL COTHA	A	P		P	A	A	P	A		P	A	
23	BCM23293	KARTHIK	A	OD		P	A	A	P	P		P	A	
24	BCM23294	KAVYASHREE	P	P		A	A	P	OD	P		P	A	
25	BCM23295	KISHAN POOJARY	P	P		P	P	P	P	P		P	P	
26	BCM23296	KISHOR	P	P		P	A	P	P	P		P	P	
27	BCM23297	M POORNA CHANDRA MAIYA	A	P		P	P	P	P	P		P	P	

Roll No								
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DR. B. B. HEGDE FIRST GRADE COLLEGE, KUNDAPURA
II INTERNAL ASSESSMENT EXAMINATION – MAY 2023
I BCOM - DATA SCIENCE SUB : INTRODUCTION TO PYTHON MAX. MARKS :

TIME: 60 MINUTES
30

(30 x 1 = 30)

Note: Answer all multiple choice questions

1. Which is used to repeatedly execute a statement/group of statements as long as the condition is true
a) Operators
b) Conditional Statements
c) Looping Statements
d) All the above
2. When we have multiple conditions, which of the following is used?
a) if statement
b) if..else statement
c) if..elif..else statement
d) Both a and b
3. Which of the following is used to exit from the current statement?
a) break
b) pass
c) continue
d) None of the above
4. Which of the following is the correct syntax?
a) for(initialisation;condition;count)
b) for(start,stop,count)
c) for variable in range(start,stop,count)
d) for variable in range(start,stop,count):
5. What is the output for the following code?
n=5
while(n!=0):
 print(n)
 n-=1
a) 1 2 3 4 5
b) 5 4 3 2 1
c) No Output
d) Syntax Error

6. Which of the following is NOT the feature of LIST?

- a) Collection of elements
- b) Immutable
- c) ordered
- d) Allows Duplicate Values

7. Which of the following is the valid code for concatenation of two lists?
mylist = [1,2,3,4,5]

- a) mylist+['python']
- b) mylist+'python'
- c) mylist
- d) None of the above

8. Which of the below is not used to add a new element?

- a) append
- b) extend
- c) pop
- d) both a and b

9. How will you declare a tuple?

- a) a = tuple[]
- b) a=()
- c) a=tuple()
- d) both b and c

10. Which of the below is used to remove existing element from list/tuple?

- a) append
- b) extend
- c) pop
- d) both a and b

11. A dictionary is a collection of elements that is ordered, mutable and in the form of -----

- a) keys and items
- b) keys and elements
- c) values and items
- d) keys and values

12. Which of the following is the real-time example for dictionary?

- a) Excel sheet
- b) Word Document
- c) Contacts
- d) All the above

13. Which of the following is used to check that the elements are present in tuples or not?

- a) membership operator
- b) identity operator
- c) logical operator
- d) both a and b

14. Which of the following is used to return the size of list and tuple?

- a) size()
- b) length()
- c) len()
- d) both b and c

15. What will be output of the following code?

```
mydict = {"CS":95,"IT":96}  
print(mydict["CS"])
```

- a) 95
- b) 96
- c){CS:95,IT:96}
- d){CS,IT}

16. What is a correct syntax to create a Pandas Series from a Python list?

- a)pd.Series(mylist)
- b)pd.series(mylist)
- c)pd.createseries(mylist)
- d)pd.CreateSeries(mylist)

17. What is the purpose of NumPy in Python?

- a) To do numerical calculations
- b) To do historical computations
- c) both a and b
- d) None of the above

18. Amongst which of the following is / are used to analyse the data in pandas.

- a) Series
- b) DataFrame
- c) both a and b
- d) None of the above

19. What will be the output when we run following code?

```
import pandas as pd  
df = pd.DataFrame()  
print (df)
```

- a) Empty DataFrame
- b) Empty Series
- c) No Output
- d) Error

20. What will be get when we use ndim?

- a) Dimension
- b) Size
- c) Rows
- d) Columns

21. NumPy stands for -----

- a) Number in Python
- b) Numerical Python
- c) Num Python
- d) All of the above

22. Pandas was developed by -----

- a) Charles Babbage
- b) Wes McKinney
- c) Travis Oliphant
- d) Guido Van Rossum

23. NumPy was developed in the year of -----

- a) 1991
- b) 2000
- c) 2005
- d) 2008

24. Which of the following to display first five rows from our data?

- a) head()
- b) tail()
- c) size()
- d) info()

25. Which of the following is used to give the statistical summary of our data?

- a) stat()
- b) info()
- c) describe()
- d) None of the above

26. Which of the following operatoris used to search the given text starts with the specified word in any Regular expression?

- a) +
- b) %
- c) \$
- d) ^

27. Which of the following is used to substitute the given word with a new word in RegEx?

- a) search
- b) findall
- c) find

d) sub

28. Which of the following is used to split the given text into sub-parts?

a) split-wise

b) split

c) split-into

d) split-all

29. What does "w" represent in file handling?

a) Wrong

b) Write

c) Wait

d) None of the above

30. Which of the following block is used to handle error?

a) try

b) except

c) finally

d) None of the above

17/30

[Signature]
29.5.23

Roll No

B	C	M	a	3	2	7	1
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DR. B. B. HEGDE FIRST GRADE COLLEGE, KUNDAPURA
II INTERNAL ASSESSMENT EXAMINATION – MAY 2023
I BCOM - DATA SCIENCE SUB : INTRODUCTION TO PYTHON

TIME: 60 MINUTES

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- c) find ✓
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b) Write

c) Wait

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b) except

c) finally

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Principal
Dr. B.B. Hegde First Grade College
Kundapura -576201

Dr. BB HEGDE FIRST GRADE COLLEGE KUNDAPURA

ATTENDANCE SHEET

IBM INDIA PRIVATE LIMITED

2023-24

SUBJECT: RELATIONAL DATABASE MANAGEMENT SYSTEM (I Sem. B.Com. (DS))

Date:

01-02-2024

SL No.	Reg No	Roll No	Class/Sector	Student Name	Signature
1	U05BB23C0011	BCM23271	I B.Com. [E]	ABHILASH	
2	U05BB23C0160	BCM23272	I B.Com. [E]	AISHWARYA D RAO	
3	U05BB23C0119	BCM23273	I B.Com. [E]	AMITH	
4	U05BB23C0277	BCM23274	I B.Com. [E]	ANANTHESHWARA ADIGA	
5	U05BB23C0123	BCM23275	I B.Com. [E]	ANUSHA	
6	U05BB23C0278	BCM23276	I B.Com. [E]	ANVITH	
7	U05BB23C0114	BCM23277	I B.Com. [E]	APOORVA	
8	U05BB23C0360	BCM23278	I B.Com. [E]	ARYA C PUTHRAN	
9	U05BB23C0215	BCM23279	I B.Com. [E]	BHAVYASHREE	
10	U05BB23C0217	BCM23280	I B.Com. [E]	BHUMIKA	
11	U05BB23C0226	BCM23281	I B.Com. [E]	CHAITHALI	
12	U05BB23C0304	BCM23282	I B.Com. [E]	CHANDAN	
13	U05BB23C0315	BCM23283	I B.Com. [E]	CHINMAY	
14	U05BB23C0220	BCM23284	I B.Com. [E]	CRIS JOHNSON OLIVERA	
15	U05BB23C0256	BCM23285	I B.Com. [E]	DEEKSHITHA	
16	U05BB23C0232	BCM23286	I B.Com. [E]	DEEPTHI R	
17	U05BB23C0171	BCM23287	I B.Com. [E]	DERICK D SOUZA	
18	U05BB23C0275	BCM23288	I B.Com. [E]	DIVYA	
19	U05BB23C0265	BCM23289	I B.Com. [E]	GLANISH MENDONCA	
20	U05BB23C0273	BCM23290	I B.Com. [E]	GOWTHAMI	
21	U05BB23C0167	BCM23291	I B.Com. [E]	GRAVIN DMELLO	
22	U05BB23C0203	BCM23292	I B.Com. [E]	HARSHAL COTHA	- ABSENT -
23	U05BB23C0264	BCM23293	I B.Com. [E]	KARTHIK	- ABSENT -
24	U05BB23C0238	BCM23294	I B.Com. [E]	KAVYASHREE	
25	U05BB23C0118	BCM23295	I B.Com. [E]	KISHAN POOJARY	
26	U05BB23C0291	BCM23296	I B.Com. [E]	KISHOR	
27	U05BB23C0274	BCM23297	I B.Com. [E]	M POORNA CHANDRA MAIYA	
28	U05BB23C0163	BCM23298	I B.Com. [E]	MANISH M POOJARY	
29	U05BB23C0189	BCM23299	I B.Com. [E]	MANISHA	
30	U05BB23C0112	BCM23300	I B.Com. [E]	MITHILESH	
31	U05BB23C0029	BCM23301	I B.Com. [E]	NAGARAJ	
32	U05BB23C0222	BCM23302	I B.Com. [E]	NAMRATHA	
33	U05BB23C0161	BCM23303	I B.Com. [E]	NAVEENA	
34	U05BB23C0283	BCM23304	I B.Com. [E]	NAVEENA S	
35	U05BB23C0318	BCM23305	I B.Com. [E]	NAVYA	
36	U05BB23C0221	BCM23306	I B.Com. [E]	NEHA	
37	U05BB23C0276	BCM23307	I B.Com. [E]	NIKHITHA	
38	U05BB23C0211	BCM23308	I B.Com. [E]	NIKSHITH	- ABSENT -
39	U05BB23C0229	BCM23309	I B.Com. [E]	NISHA SUWIN	
40	U05BB23C0279	BCM23310	I B.Com. [E]	NISHMITHA	
41	U05BB23C0218	BCM23311	I B.Com. [E]	PAVAN	
42	U05BB23C0287	BCM23312	I B.Com. [E]	PAVAN K L	

43	U05BB23C0225	BCM23313	I B.Com. [E]	PAVITHRA	Pavithra
44	U05BB23C0099	BCM23314	I B.Com. [E]	POOJARI AKASH SURESH	AROSH
45	U05BB23C0228	BCM23315	I B.Com. [E]	POORNIMA K	Poornima.k
46	U05BB23C0188	BCM23316	I B.Com. [E]	PRANAYA	Pranaya
47	U05BB23C0219	BCM23317	I B.Com. [E]	PRASHANTH GOWDA	Prashanth
48	U05BB23C0103	BCM23318	I B.Com. [E]	PRAVEEN	Praveen
49	U05BB23C0223	BCM23319	I B.Com. [E]	R KARTHIK BAIRY	R Kartik
50	U05BB23C0180	BCM23320	I B.Com. [E]	RAJATH KUMAR	Rajath
51	U05BB23C0090	BCM23321	I B.Com. [E]	RAKSHAN C	Rakshan
52	U05BB23C0268	BCM23322	I B.Com. [E]	RAKSHITH SHETTY	Rakshith
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61	U05BB23C0079	BCM23331	I B.Com. [E]	RITISHA G R	Ritisha
62	U05BB23C0353	BCM23332	I B.Com. [E]	S RAKSHITHA	Rakshitha
63	U05BB23C0113	BCM23333	I B.Com. [E]	SACHIN DEVADIGA	Sachin
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66	U05BB23C0314	BCM23336	I B.Com. [E]	SAMARTHA	Samantha
67	U05BB23C0150	BCM23337	I B.Com. [E]	SANATH	Sanath
68	U05BB23C0089	BCM23338	I B.Com. [E]	SANJANA DEVADIGA	Sanjana
69	U05BB23C0272	BCM23339	I B.Com. [E]	SATHWIK R ACHARYA	Sathwik
70	U05BB23C0285	BCM23340	I B.Com. [E]	SHAINA WILSON ALMEIDA	Shaina
71	U05BB23C0280	BCM23341	I B.Com. [E]	NIRANJAN KARUNAKAR SHETTY	Niranjana
72	U05BB23C0284	BCM23342	I B.Com. [E]	ADARSH DINESH SHETTY	Adarsh
73	U05BB23C0267	BCM23343	I B.Com. [E]	SHIVANI	Shivani
74	U05BB23C0088	BCM23344	I B.Com. [E]	SHRAMITHA	Shramitha
75	U05BB23C0124	BCM23345	I B.Com. [E]	SHRISHANTH	Shrisha
76	U05BB23C0191	BCM23346	I B.Com. [E]	SHWETHA	Shwetha
77	U05BB23C0269	BCM23347	I B.Com. [E]	SINCHANA	Sinchana
78	U05BB23C0162	BCM23348	I B.Com. [E]	SNEHA	Sneha
79	U05BB23C0212	BCM23349	I B.Com. [E]	SRAJAN	Srajan
80	U05BB23C0003	BCM23350	I B.Com. [E]	SUJAN	Sujan
81	U05BB23C0003	BCM23350	I B.Com. [E]	SUJAY V	Sujay
82	U05BB23C0213	BCM23351	I B.Com. [E]	SUJAYA KUMAR SHETTY	Sujaya
83	U05BB23C0271	BCM23352	I B.Com. [E]	SUMANTH JOGI	Sumanth
84	U05BB23C0331	BCM23353	I B.Com. [E]	SUMANTH S	Sumanth
85	U05BB23C0178	BCM23354	I B.Com. [E]	SUNIL KUMAR	Sunil
86	U05BB23C0227	BCM23355	I B.Com. [E]	U SUBRAMANYA BAIRY	Subramanya
87	U05BB23C0231	BCM23356	I B.Com. [E]	VEEKSHITH	Veeekshith
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90	U05BB23C0224	BCM23360	I B.Com. [E]	WINSTON MENDONCA	Winston

Exam/01/2/24
EXAMINER (N. Suresh)

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COURSE AGENDA**CHAPTER I. Understanding Database Concepts**

Duration: 1 Hr.

<p>Overview</p> <p>Learning Objectives</p>	<p>This chapter provides an overview on database concepts, provides details on database tables, primary keys and foreign keys. Also, it gives detailed steps on installation of SQLite and Dockerized MySQL and DB2 databases.</p> <p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Explain the database concepts like tables and different keys. • Install SQLite, MySQL and DB2.
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CHAPTER II. Understanding Database Storage

Duration: 2 Hrs.

<p>Overview</p> <p>Learning Objectives</p>	<p>In this chapter, you will get an overview on Database normalization, Indexes and how they are used along with configuring clustered as well as non-clustered indexes in databases.</p> <p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Explain database normalization, clustered as well as non-clustered indexes. • Create Indexes in database.
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CHAPTER III. Entities and Relationships

Duration: 2 Hrs.

Overview	This chapter provides an overview on entities and relationships in RDBMS and explains concepts like Domains, Relationship and Business rules, Data Modelling and Schemas etc.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand concepts like entities, attributes, data modelling and relationship in RDBMS.

CHAPTER IV. The Relational Data Model

Duration: 2 hrs.

Overview	This chapter provides an overview on Database relations, primary keys and how to represent the data relationships in RDBMS. This chapter also explains about views and Data dictionary in RDBMS.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand the Relational Data Model in RDBMS • Understand concepts like database views and data dictionary.

CHAPTER V. Normalization

Duration: 3 hrs.

Overview	This chapter provides an overview on the Database Normalization and all the database normal forms (from first till sixth) and Boyce-Codd Normal form.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand the Database Normalization and all the database normal forms.

CHAPTER VI. Database Design and Performance Tuning

Duration: 2 hrs.

Overview	This chapter provides an overview on the performance and tuning of a database.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand the tuning of database

CHAPTER VII. Creating Database Objects

Duration: 4 hrs.

Overview	This chapter provides an overview of Data definition language and its operation.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand how DDLs used to create or modify the Schema, tables index etc.

CHAPTER VIII. Manipulating Data

Duration: 4 hrs.

Overview	This chapter provides an overview of Data manipulation language and its operation.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand how DMLs used to store, manipulate, retrieve data from tables.

CHAPTER IX. JDBC As the Fundamental Java API

Duration: 3 hrs.

Overview	This chapter provides an overview on JDBC Basics.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand on how to create Database and to connect through Java API, and CRUD operations using Java API

CHAPTER X. JPA as the JAVA ORM API

Duration: 4 hrs.

Overview	This chapter provides an overview of JPA
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand on how to adopt JPA from JDBC and CRUD operation using JPA

CHAPTER XI. Database Security

Duration: 3 hrs.

Overview	This chapter provides an overview of Database Security on External Security threats, Internal threats.
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> • Understand on external security threats, internal threats and the social remedies.

CHAPTER XII. Understanding Database Backup and Restore

Duration: 3 hrs.

Overview	This chapter provides an overview of Data Backup and Restore
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> Understand on different backups, how to take a Database backup, restore point.

CHAPTER XIII. Introduction to MySQL

Duration: 3 hrs.

Overview	This chapter provides an overview of basics of MySQL, basic queries
Learning Objectives	<p>After completing this unit, you should be able to:</p> <ul style="list-style-type: none"> Understand how to insert, delete, select, update, where, drop, create queries in MySQL Database.


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