



Maharaja Pratapsinh Shikshan Sanstha, Mumbai's
Anandibai Raorane Arts, Commerce & Science College, Vaibhavwadi
Department of Statistics

ACTIVITY REPORT

ACADEMIC YEAR	2022-23
Activity No.	Statistics/22-23/
Name of the Activity	Certificate Course on Data Analysis Using My-SQL.
Date	21 August 2022 - 16 December 2022 (45 Lectures)
Time	
Venue	T.Y.B.Com. Classroom
Organized by	Department of Statistics
Co-Ordinator	Dr. C. S. Kakade
Activity for College/Class/Group	Class
No. of Beneficiaries	52
Nature: Academic/Co-curricular/Extra-curricular/Extension	Academic
Objectives of Activity	To facilitate and to gain expertise in advanced techniques of My-SQL. To enhance the technical knowledge in My-SQL.
Brief Information about Activity	As per the Notice of the course, syllabus, timetable has been prepared and 45 lectures of course have been conducted. All the lectures of this course have been taken. Theory and Practical Exam has been conducted of 100 Marks. Result of exam was declared and Certificates of the course were distributed to the students.
Outcome	After participating in this certificate course, the students understood the basic concepts in My-SQL software & enhanced the technical knowledge in My-SQL.
Feedback Analysis	The Oral feedback was taken after the event. From the response of the students, it was found that the course was successful. No suggestions were given.
Supported Documents	Activity report, Notice, list of students, timetable, attendance.



Course Coordinator





Principal
Anandibai Raorane Arts, Commerce & Science
College, Vaibhavwadi.



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Date-16/08/2022

NOTICE

All students are hereby informed that Department of Statistics is going to start Short Term Certificate Course in “**Data Analysis Using My-SQL**” in the **FIRST** term of academic year 2022-23 from **21 August 2022 - 16 December 2022**. The interested candidates are informed to register their names to Prof. Dr. C. S. Kakade on or before **20 August 2022**.



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Department of Statistics

A Certificate Course in
Title: - Data Analysis Using My -SQL (2022-23)
Duration: 21 August 2022 - 16 December 2022 (45 Lectures)



Objectives

1. To enhance the technical knowledge in My SQL in the students.
2. We Endeavour to make this department as an advanced Center of innovation in Software technologies.
3. To retain student attachment and upgrade the standards of teaching, learning and research to match global level of excellence.

Syllabus

UNIT I (11 Lectures)

- a) Introduction: To Databases, Relational and Non-relational database system MySQL as a Non-procedural Language. View of data.

UNIT II (11 Lectures)

- b) SQL Basics : Statements (Schema Statements, Data statements, Transaction statements, names (table & column names), data types (Char, Varchar, Text, Medium text, Longtext, Smallint, Bigint, Boolean, Decimal, Float, Double, Date, Date Time, Timestamp, Year, Time, Creating Database, inserting data, Updating data, Deleting data, expressions, built-in-functions, missing data(NULL and NOT NULL DEFAULT values) CREATE, USE, ALTER (Add, Remove, Change columns), RENAME, SHOW, DESCRIBE (CREATE TABLE, COLUMNS, STATUS and DATABASES only) and DROP (TABLE, COLUMN, DATABASES statements), PRIMARY KEY FOREIGN KEY (One and more columns) Simple Validity checking using CONSTRAINTS.

UNIT III (11 Lectures)

- c) Simple queries: The SELECT statement (From, Where, Group By, Having, Order By, Distinct, Filtering Data by using conditions. Simple and complex conditions using logical, arithmetic and relational operators ($=$, $!=$, $<$, $>$, $<>$, AND, OR, NOT, LIKE, BETWEEN).
- d) Multi-table queries: Simple joins (INNER JOIN), SQL considerations for multi table queries (table aliases, qualified column names, all column selections self joins).

Technical (Lab.) Sessions/ Practical's (12 Lectures)

1. Tabulation and Graphical representation of data
2. Use of Statistical and Mathematical Functions (Basic Functions, Measures of Central Tendency and Dispersion)
3. Use of Financial functions
4. One sample and two sample statistical tests
5. Pivot Tables and Pivot Chart



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Course End Examination

• **Theory**

Theory Exam - **50 Marks**

At the end of course, Theory examination of 2 hours duration and **50 marks** based on syllabus shall be held.

• **Practical**

Practical Exam - **50 Marks**

At the end of course, Practical examination of 2 hours duration and **40 marks** based on syllabus shall be held. **10 marks** for VIVA. **(40+10=50)**

Pattern of Question paper.

• **Theory**

Question one based on all units. Ten sub-questions of **2 marks** each.

Question two based on all units. Three sub-questions of **10 marks** each.

• **Practical**

There should be Four Questions of **10 marks** each. Students should attempt all questions.

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Certificate course in "Data Analysis using My-SQL 2022-23"
(Duration: 21 August 2022 - 16 December 2022) (45 Lectures)



Student List

Sr. No	Name of Students	Class
1	Adulkar Santosh Maruti Mandakini	T.Y.B.Com.
2	Amraskar Bhagyashri Ratnakar Rupali	T.Y.B.Com.
3	Bane Rakhi Harishchandr Anjali	T.Y.B.Com.
4	Bane Vaibhavi Anant Akshata	T.Y.B.Com.
5	Chavan Arpita Ajay Archana	T.Y.B.Com.
6	Chavan Priti Sonu Sugandha	T.Y.B.Com.
7	Darde Chetana Govind Supriya	T.Y.B.Com.
8	Darde Janhavi Rajendra Rajshree	T.Y.B.Com.
9	Gandhi Gauri Sandesh Seema	T.Y.B.Com.
10	Gavankar Pranit Yashwant Smita	T.Y.B.Com.
11	Gurav Nitin Vasudev Satyawati	T.Y.B.Com.
12	Gurav Sanket Sanjay Sangita	T.Y.B.Com.
13	Gurav Suraj Satyawan Rasika	T.Y.B.Com.
14	Indap Rutik Vaman Shraddha	T.Y.B.Com.
15	Kadam Bhagyashri Santosh Sunita	T.Y.B.Com.
16	Kadam Sadhana Chandrakant Supriya	T.Y.B.Com.
17	Kadam Sahil Sandip Shweta	T.Y.B.Com.
18	Kale Vaishnavi Vitthal Vandana	T.Y.B.Com.
19	Kamble Simran Adesh Amisha	T.Y.B.Com.
20	Kolte Pradnya Mangesh Mayuri	T.Y.B.Com.
21	Mainkar Siddhi Arjun Pooja	T.Y.B.Com.
22	Mane Divya Prakash Pranjali	T.Y.B.Com.
23	Mirashi Pranati Prakash Priya	T.Y.B.Com.
24	Mirashi Sandesh Sanjay Sonali	T.Y.B.Com.
25	More Aditi Ashok Asmita	T.Y.B.Com.
26	Narkar Dipti Prakash Pratiksha	T.Y.B.Com.
27	Panchal Bhagyashri Gopinath Sharada	T.Y.B.Com.
28	Panchal Pranali Suresh Archana	T.Y.B.Com.
29	Panchal Rohan Babaji Nilam	T.Y.B.Com.
30	Pashte Pritesh Subhash Pragati	T.Y.B.Com.
31	Patil Asha Dilip Kavita	T.Y.B.Com.
32	Patil Suvidha Sanjay Swati	T.Y.B.Com.



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33	Pavaskar Kanchan Anant Archana	T.Y.B.Com.
34	Rahate Bhushan Rajendra Tejashri	T.Y.B.Com.
35	Rane Divya Sandip Sampada	T.Y.B.Com.
36	Raorane Amol Pandurang Akshata	T.Y.B.Com.
37	Raorane Lalit Vilas Pradnya	T.Y.B.Com.
38	Raorane Prajakta Shantaram Sarika	T.Y.B.Com.
39	Raorane Tejal Madhukar Madhavi	T.Y.B.Com.
40	Raorane Vishakha Surendra Seema	T.Y.B.Com.
41	Satam Prajakta Chandrakant Chaitanya	T.Y.B.Com.
42	Sawant Chaitali Anant Anita	T.Y.B.Com.
43	Sawant Prajyot Manohar Manisha	T.Y.B.Com.
44	Sawant Shamika Shirish Shwetali	T.Y.B.Com.
45	Shelar Preeti Parshuram Pratiksha	T.Y.B.Com.
46	Shrungare Pratiksha Sanjay Mandakini	T.Y.B.Com.
47	Tawade Abhijeet Arun Anjali	T.Y.B.Com.
48	Tondavalkar Dipali Suryakant Sushama	T.Y.B.Com.
49	Kadam Aditya Anil Anjali	T.Y.B.Com.
50	Kadam Akansha Chandrakant Swati	T.Y.B.Com.
51	Nevarekar Omkar Prakash Prabhavati	T.Y.B.Com.
52	Patil Kavita Rajendra Rajashri	T.Y.B.Com.

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Course Coordinator



[Handwritten Signature]

Principal

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Certificate course in Data Analysis using My SQL. Marks-50



Q-1) Write a MySQL statement to create a table called STOCK having the following columns containing information of items kept in a store. Item number (INO, unique, positive integers), item name (INAME, character, variable width 15, not empty), quantity in stock (Q_ST, integer, positive), unit price (U_PR, numeric, having 5 integer and 2 decimal places) and date of arrival (DT_AR, date). 10

Q-2) There exists a table called STORE containing columns item id (IT_ID, character), item name (INAME, character), the quantity in balance (QTY_BAL, numeric) and unit price (UPR, numeric). 10

Write MySQL statements for the following:-

- (1) Increase the unit price of all the items by 50.
- (2) ADD a numeric column VALUE having 7 integer and 2 decimal places.
- (3) Remove the rows where the quantity in balance is below 10
- (4) Delete the table STORE.

Q-3)) Write a MySQL statement to create a table named ECHARGE containing information of the customers using electricity provided by XYZ company, having the columns Customer's identification number (C_ID, distinct integer), Customer name (CNAME, character, variable width 20, not empty), Customer's address (C_ADR, character, variable width 30), type of connection (TYPE, character, of width 12, containing default entry 'RESIDENTIAL', should not be empty) and units consumed (UNITS, positive integer). 10

Q-4) There exists a table called COLLEGE having the following columns . 10
Roll Number (RNO; integer), Students Name (SNAME, character width 15), Fees Paid (FEES, having 6 integers and 2 decimal places) and Date of Admission (DA, date).

Write MySQL statements for the following.

- i) Display the structure of the table COLLEGE.
- ii) Add a new column Conformation (CO, Boolean).
- iii) Increase the fees of all students by 500.
- iv) For roll number 75, change the name of the student to 'Rajesh Pal'.
- v) Change the size of the column FEES to 5 integers and 2 decimals.
- vi) Rename the column DA to DOB.
- vii) Delete the table COLLEGE.

Q-5) Explain the following built-in functions in MySQL. 1) LENGTH () 2) RIGHT ()

3) MID () 4) TIME () 5) DAY () 6) MONTHNAME () 7) ABS () 10



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Mark Sheet

Sr. No	Name of Students	Class	Grade
1	Adulkar Santosh Maruti Mandakini	T.Y.B.Com.	A
2	Amraskar Bhagyashri Ratnakar Rupali	T.Y.B.Com.	A
3	Bane Rakhi Harishchandr Anjali	T.Y.B.Com.	A
4	Bane Vaibhavi Anant Akshata	T.Y.B.Com.	A
5	Chavan Arpita Ajay Archana	T.Y.B.Com.	A
6	Chavan Priti Sonu Sugandha	T.Y.B.Com.	A
7	Darde Chetana Govind Supriya	T.Y.B.Com.	A
8	Darde Janhavi Rajendra Rajshree	T.Y.B.Com.	A
9	Gandhi Gauri Sandesh Seema	T.Y.B.Com.	A
10	Gavankar Pranit Yashwant Smita	T.Y.B.Com.	A
11	Gurav Nitin Vasudev Satyawati	T.Y.B.Com.	A
12	Gurav Sanket Sanjay Sangita	T.Y.B.Com.	A
13	Gurav Suraj Satyawar Rasika	T.Y.B.Com.	A
14	Indap Rutik Vaman Shraddha	T.Y.B.Com.	A
15	Kadam Bhagyashri Santosh Sunita	T.Y.B.Com.	A
16	Kadam Sadhana Chandrakant Supriya	T.Y.B.Com.	A
17	Kadam Sahil Sandip Shweta	T.Y.B.Com.	A
18	Kale Vaishnavi Vitthal Vandana	T.Y.B.Com.	A
19	Kamble Simran Adesh Amisha	T.Y.B.Com.	A
20	Kolte Pradnya Mangesh Mayuri	T.Y.B.Com.	A
21	Mainkar Siddhi Arjun Pooja	T.Y.B.Com.	A
22	Mane Divya Prakash Pranjali	T.Y.B.Com.	A
23	Mirashi Pranati Prakash Priya	T.Y.B.Com.	A
24	Mirashi Sandesh Sanjay Sonali	T.Y.B.Com.	A
25	More Aditi Ashok Asmita	T.Y.B.Com.	A
26	Narkar Dipti Prakash Pratiksha	T.Y.B.Com.	A
27	Panchal Bhagyashri Gopinath Sharada	T.Y.B.Com.	A
28	Panchal Pranali Suresh Archana	T.Y.B.Com.	A
29	Panchal Rohan Babaji Nilam	T.Y.B.Com.	A
30	Pashte Pritesh Subhash Pragati	T.Y.B.Com.	A
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35	Rane Divya Sandip Sampada	T.Y.B.Com.	A
36	Raorane Amol Pandurang Akshata	T.Y.B.Com.	A
37	Raorane Lalit Vilas Pradnya	T.Y.B.Com.	A
38	Raorane Prajakta Shantaram Sarika	T.Y.B.Com.	A
39	Raorane Tejal Madhukar Madhavi	T.Y.B.Com.	A
40	Raorane Vishakha Surendra Seema	T.Y.B.Com.	A
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43	Sawant Prajyot Manohar Manisha	T.Y.B.Com.	A
44	Sawant Shamika Shirish Shwetali	T.Y.B.Com.	A
45	Shelar Preeti Parshuram Pratiksha	T.Y.B.Com.	A
46	Shrungare Pratiksha Sanjay Mandakini	T.Y.B.Com.	A
47	Tawade Abhijeet Arun Anjali	T.Y.B.Com.	A
48	Tondavalkar Dipali Suryakant Sushama	T.Y.B.Com.	A
49	Kadam Aditya Anil Anjali	T.Y.B.Com.	A
50	Kadam Akansha Chandrakant Swati	T.Y.B.Com.	A
51	Nevarekar Omkar Prakash Prabhavati	T.Y.B.Com.	A
52	Patil Kavita Rajendra Rajashri	T.Y.B.Com.	A

Course Coordinator



Principal

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Certificate course in "Data Analysis using My-SQL 2022-23"
(Duration: 21 August 2022 - 16 December 2022) (45 Lectures)

Result Analysis

Grade	O	A	B	C	D	TOTAL
No. of Students	00	52	-	-	-	52

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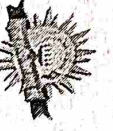
Certificate course in 'Data Analysis using My-SQL 2022-23'

(Duration: 21 August 2022 - 16 December 2022) (45 Lectures)

Students Attendance

Sr. No	Name of Student	01	02	03	04	05	06	07	08	09	10	11	12
1	Adulkar Santosh Maruti	P	P	P	P	P	P	P	P	P	P	P	P
2	Amraskar Bhagyashri Ratnakar	P	P	P	P	P	P	P	P	P	P	P	P
3	Bane Rakhi Harishchandr	P	P	P	P	P	P	P	P	P	P	P	P
4	Bane Vaibhavi Anant	P	P	P	P	P	P	P	P	P	P	P	P
5	Chavan Arpita Aiyaj	P	P	P	P	P	P	P	P	P	P	P	P
6	Chavan Priti Sonu	P	P	P	P	P	P	P	P	P	P	P	P
7	Darde Chetana Govind	P	P	P	P	P	P	P	P	P	P	P	P
8	Darde Janhavi Rajendra	P	P	P	P	P	P	P	P	P	P	P	P
9	Gandhi Gauri Sandesh	P	P	P	P	P	P	P	P	P	P	P	P
10	Gavankar Pranit Yashwant	P	P	P	P	P	P	P	P	P	P	P	P
11	Gurav Nitin Vasudev	P	P	P	P	P	P	P	P	P	P	P	P
12	Gurav Sankeet Sanjay	P	P	P	P	P	P	P	P	P	P	P	P
13	Gurav Suraj Satyawant	P	P	P	P	P	P	P	P	P	P	P	P
14	Indap Rutik Vaman	P	P	P	P	P	P	P	P	P	P	P	P
15	Kadam Bhagyashri Santosh	P	P	P	P	P	P	P	P	P	P	P	P
16	Kadam Sadhana Chandrakant	P	P	P	P	P	P	P	P	P	P	P	P
17	Kadam Sahil Sandip	P	P	P	P	P	P	P	P	P	P	P	P
18	Kale Vaishnavi Vitthal	P	P	P	P	P	P	P	P	P	P	P	P
19	Kamble Simran Adesh	P	P	P	P	P	P	P	P	P	P	P	P
20	Kolte Pradnya Mangesh	P	P	P	P	P	P	P	P	P	P	P	P
21	Mainkar Siddhi Arjun	P	P	P	P	P	P	P	P	P	P	P	P
22	Mane Divya Prakash	P	P	P	P	P	P	P	P	P	P	P	P
23	Mirashi Pranati Prakash	P	P	P	P	P	P	P	P	P	P	P	P
24	Mirashi Sandesh Sanjay	P	P	P	P	P	P	P	P	P	P	P	P





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Sr. No	Name of Student	13	14	15	16	17	18	19	20	21	22	23
1	Adulkar Santosh Maruti	P		P		P		P	P		P	P
2	Amraskar Bhagyashri Ratnakar	P		P		P		P	P		P	P
3	Bane Rakhi Harishchandr	P		P		P		P	P		P	P
4	Bane Vaibhavi Anant	P		P		P		P	P		P	P
5	Chavan Arpita Ajay	P		P		P		P	P		P	P
6	Chavan Priti Somu	P		P		P		P	P		P	P
7	Darde Chetana Govind	P		P		P		P	P		P	P
8	Darde Janhavi Rajendra	P		P		P		P	P		P	P
9	Gandhi Gauri Sandesh	P		P		P		P	P		P	P
10	Gavankar Pranit Yashwant	P		P		P		P	P		P	P
11	Gurav Nitin Vasudev	P		P		P		P	P		P	P
12	Gurav Sanket Sanjay	P		P		P		P	P		P	P
13	Gurav Suraj Satyawar	P		P		P		P	P		P	P
14	Indap Rutik Vaman	P		P		P		P	P		P	P
15	Kadam Bhagyashri Santosh	P		P		P		P	P		P	P
16	Kadam Sadhana Chandrakant	P		P		P		P	P		P	P
17	Kadam Sahil Sandip	P		P		P		P	P		P	P
18	Kale Vaishnavi Vitthal	P		P		P		P	P		P	P
19	Kamble Simran Adesh	P		P		P		P	P		P	P
20	Kolte Pradnya Mangesh	P		P		P		P	P		P	P
21	Mainkar Siddhi Arjun	P		P		P		P	P		P	P
22	Mane Divya Prakash	P		P		P		P	P		P	P
23	Mirashi Pranati Prakash	P		P		P		P	P		P	P
24	Mirashi Sandesh Sanjay	P		P		P		P	P		P	P
25	More Aditi Ashok	P		P		P		P	P		P	P
26	Narkar Dipiti Prakash	P		P		P		P	P		P	P
27	Panchal Bhagyashri Gopinath	P		P		P		P	P		P	P



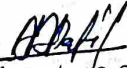


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Feedback Form

- *****
1. Were objectives of the activity clear to you
a) Yes b) No
 2. The activity content met with your expectation
a) Strongly agree b) Agree c) Not sure d) Disagree
 3. The exposed you to new knowledge and practices
a) Strongly agree b) Agree c) Not sure d) Disagree
 4. The lectures were clear and easy to understand
a) Strongly agree b) Agree c) Not sure d) Disagree
 5. The teaching aids were effectively used
a) Strongly agree b) Agree c) Not sure d) Disagree
 6. Please give overall rating of activity
a) 80-100% b) 60-80% c) 40-60% d) bellow 40%
 7. Any suggestions

No suggestions


Signature of the student

Date