



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

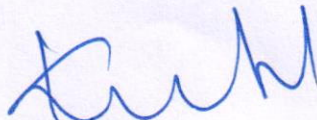
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CIRCULAR

28.08.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Orientation to SQL on Big Data** for the benefit of II, III and IV year students. This course is scheduled from 01.09.2017 for 46 hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	Dr.C.Rajabhushanam	Professor


Head of Department

To

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HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA



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CERTIFICATE COURSE ON SQL ON BIG DATA

Date of Introduction of the Course: 28.08.20217

COURSE OBJECTIVE

Much of the world's data resides in databases. SQL (or Structured Query Language) is a powerful language which is used for communicating with and extracting data from databases. The purpose of this course is to introduce relational database concepts and help you learn and apply foundational knowledge of the SQL language. It is also intended to get you started with performing SQL access in a data science environment. The emphasis in this course is on hands-on and practical learning.

WHAT TO EXPECT

- ✓ You will work with real databases, real data science tools, and real-world datasets.
- ✓ You will create a database instance in the cloud.
- ✓ Through a series of hands-on labs you will practice building and running SQL queries.
- ✓ You will also learn how to access databases from Jupyter notebooks using SQL.

COURSE SYLLABUS

1. Introduction to Databases and Basic SQL

- Welcome to SQL for Data Science
- Introduction to Databases
- How to create a Database instance on Cloud
- Relational Database Concepts

2. SQL Queries

- CREATE Table Statement
- SELECT Statement
- COUNT, DISTINCT, LIMIT
- INSERT Statement
- UPDATE and DELETE Statements

3. Advanced SQL

- Using String Patterns, Ranges
- Sorting Result Sets
- Grouping Result Sets
- Built-in Database Functions
- Date and Time Built-in Functions
- Sub-Queries and Nested Selects
- Working with Multiple Tables

4. Accessing Databases using Python

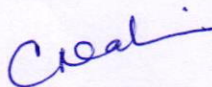
- How to Access Databases Using Python
- Writing code using DB-API
- Connecting to a database using ibm_db API
- Creating tables, loading data and querying data
- Analysing data with Python

5. Joins

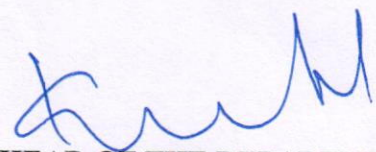
- Join Overview
- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join

6. Course Assignment

- Working with Real World Datasets
- Getting Table and Column Details

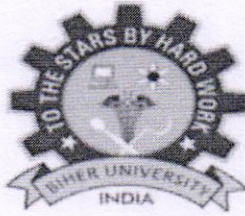


COURSE COORDINATOR



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CERTIFICATE COURSE ON SQL ON BIG DATA

Date of Introduction of the Course: 28.08.2017

The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN)

Time Table& Lesson plan

CLASS	DATE	TOPIC
1,2	31-08-2017	<ul style="list-style-type: none">• Welcome to SQL for Data Science• Introduction to Databases
3,4, 5,6	01-09-2017	<ul style="list-style-type: none">• How to create a Database instance on Cloud• Relational Database Concepts• CREATE Table Statement• SELECT Statement• COUNT, DISTINCT, LIMIT• INSERT Statement• UPDATE and DELETE Statements
7,8	07-09-2017	<ul style="list-style-type: none">• Using String Patterns, Ranges• Sorting Result Sets• Grouping Result Sets
9,10, 11,12	08-09-2017	<ul style="list-style-type: none">• Built-in Database Functions• Date and Time Built-in Functions• Sub-Queries and Nested Selects• Working with Multiple Tables
13,14	14-09-2017	<ul style="list-style-type: none">• How to Access Databases Using Python
15,16,	15-09-2017	<ul style="list-style-type: none">• Writing code using DB-API• Connecting to a database using ibm_db API

17,18		
19,20	21-09-2017	<ul style="list-style-type: none"> • Connecting to a database using ibm_db API
21,22, 23,24	22-09-2017	<ul style="list-style-type: none"> • Creating tables, loading data and querying data • Analysing data with Python
25,26	28-09-2017	<ul style="list-style-type: none"> • Join Overview • Inner Join • Left Outer Join • Right Outer Join • Full Outer Join
27,28, 29,30	29-09-2017	<ul style="list-style-type: none"> • Working with Real World Datasets • Getting Table and Column Details

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COURSE COORDINATOR

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CERTIFICATE OF PARTICIPATION

This is Presented to

Mr . Sai Teja

For actively participating in value added course on
“*SQL on BIG DATA* “ conducted by School Computing ,
BIHER from 31/08/2017 to 29/09/2017.

creali
Coordinator

[Signature]
HOD

[Signature]
DIRECTOR



CERTIFICATE COURSE ON SQL ON BIG DATA
Date of Introduction of the Course: 28.08.2017

School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS175	CHALUVADI KALYAN
2	U16CS176	INDHUMATHI K
3	U16CS177	VAKA MAHENDRA REDDY
4	U16CS178	TIPPAREDDY NARENDRA REDDY
5	U16CS179	EDA MADANAMOHAN REDDY
6	U16CS180	THATI RAGHAVA
7	U16CS181	NAGIREDDY KRISHNA REDDY
8	U16CS182	MADDULA SUDHAKARA REDDY
9	U16CS183	ARAVINDASAMY R
10	U16CS117	S YUGANDHAR
11	U16CS118	CHOKKAM NAGARAJU
12	U16CS119	ARIKATLA PAVITHRA
13	U16CS120	ROSHAN KUMAR RAJ
14	U16CS122	G RAJESH KUMAR
15	U16CS124	SURLA SRINUVASU
16	U16CS125	THUMMALA CHALLA MANOJ
17	U16CS127	NULAKA RAJGOPAL REDDY
18	U16CS059	SRAVANI GADIPARTHI
19	U16CS060	PARUCHURU JYOTHI SATYA SIVA NAGA SWAROOP
20	U16CS061	NAGIREDDY GARI SANJUNATH REDDY
21	U16CS062	NALLAMOTHU TARUN KUMAR
22	U16CS063	GANNAMANI PRAVEEN
23	U16CS064	M AMARNATH REDDY
24	U16CS066	KOTTE BALAJI
25	U16CS067	ABDUL HASEEB

26	U16CS068	BHAVANAM SAI KRISHNA REDDY
27	U16CS001	SANTOSH B
28	U16CS002	APARNA V M
29	U16CS003	NALAMOTHU SRIKANTH
30	U16CS004	ABDUL KHADIR L
31	U16CS006	SARAVANAN R
32	U16CS007	SANAM NAGA VENKATA SAI KRISHNA
33	U16CS008	CHEEMIREDDIGARI ANKITHAREDDY
34	U16CS009	RITIK RAJ
35	U16CS010	JOHAN KIRUBAHAR P P
36	U16CS011	RAVURI MOUNIKA
37	U16CS012	FAYAZ AKIL S
38	U16CS013	SURYA SUNDARRAJ SRIRAM
39	U16CS014	SOMA BHARATH KUMAR
40	U16CS015	B J JAISON
41	U16CS016	SARAVANAKUMAR S
42	U16CS017	VARUN KANNA A
43	U16CS018	JUPAKA SAIVARUN
44	U16CS019	PYDI VENKATA PRITHEESH NIHAR
45	U16CS020	R MAHESH
46	U16CS701	PRADEEP SURIYA

C. Prasad
COURSE COORDINATOR

[Signature]
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COURSE FEEDBACK FORM

Academic Year		2017 - 2018							
Term									
Course Number									
Course Title		SQL ON BIGDATA							
Number of Credits		-							
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>			
I. Information on the Respondent: (Tick (√) Appropriately)									
1. Percentage of classes attended									
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100	
2. Number of hours per week spent on the course (Other than lecture hours)									
0-2		2-4		4-6		6-8	<input checked="" type="checkbox"/>	8-10	
3. Preparation for the course by the student:									
(i)	Have done part of this course earlier								NO
(ii)	Has adequate prior exposure to the prerequisites								NO
(iii)	Had to pickup relevant additional topics through concurrent study								NO
(iv)	Have no exposure to the background material								Yes
4. The expectations for taking the course by the student are:									
(a)	Enhance by skill base in the area of specializations								Yes
(b)	Get exposed to a relevant subject								Yes
(c)	Curiosity								Yes
(d)	Better Employment Opportunity								Yes
(e)	Complete Course requirements								Yes
(f)	To Improve CGPA								Yes
About the Instructor: Information on the Respondent: (Tick (√) Appropriately)									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture	✓							
2.	Content of the Subject	✓							
3.	Clarity of expression	✓							
4.	Level of preparation	✓							
5.	Level of interaction		✓						
6.	Accessibility outside the class		✓						
7.	Others (please specify)	-	-						
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	


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