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M22C	S186 Subject	BDA LAB School/Coll	ege BMSCE	
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SI. No.	Date	Title	Page No.	Teacher Sign / Remarks
1.	4/3/25	LAB-1		
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	LAB-1
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	db. creat Collection ("Student");
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2)	use my DBz
	switched to db myDB
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3)	db. Student. drap();
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4)	db. Student. insertes (
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	Gidil, StudName: "Nifhya",
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40 L V	[ 2-id: 4, StudName: "ganesh', Grade:
David Tr	Calenta James : amollhash . 3: 151- "V"
- William	blosbies: Dance 4
1.0001	· 2/2014201.
**	[-id: 5, Studalame: "Kumar", Grade: "VI"
/	Hobbies: "Singing"]
1	Mindelshop ? ? builtashop dt. (8 4
6)	db. Studentinsert (mystudent)
- day	Lack nowledged: true, inscretedads:
The Park	(0;4,11,5)?
	AS 184
	db. Student update ( Studovamo: "Aryon"
	Grade: "VDD".
	Grade: "VDD'Z,  Blot: SHobbies: "stating": M.

Supscet: tene 3); 11. id: 4, Studhlame: garesh", Grade id: 5, Studhlame: "Kurnas", Grade: db. Student find ( 2 3 { Stud Nome: 1, Geode!)

12 Lab-02 A: use mysb; 1. Create a collection by name kustome with the following attributes, DCc Bal, Dcc - Type 1. ds. create (olloction (" Customers") Insert at loast 5 values into the table At db: Customers insert Many (ff cust adnowledged: true, Write a guery to display & note speck whose total account balance is greate than 1200 of acc type "Z"

ds Customers. find ( & "Dec Bal": & Bgt 2 no fid: Sied Id (b70). Accept: 1500 AccType: 213 -id: objected (67 -- 18) Custid: 4 Acc Bal: 1300 Ace Type: 7 9] Determine Minimum and moun

Las-03 1) Create Layspace students with Replication

{ class = Simple Strategy seplicate

factor :: Describe Leyspaces Students system system sche SELECT & FROM System & chemo Loyspaces 1988 Students CREATE TABLE & Students Info PRIMARY KEY, Studenome text, Dates DESCREBE TABLE Students Info BEGIN RATCH insect into Students\_info (Roll-1 Values (, "Dash', 2012-03-12', Insect into students-info (Rollno, Studento Date of Joing, last ralues (2 Taeun, 2012-03.

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	BI APPLY BATON;
8	Select & yearn 87 derts i Wo;
	SELECT & FROM SINDONHERE ROLL NO IN (433);
(10)	CREATE INDEX ON Students-info
	Shudalland)
0	Scheck & from student Info where Studenome "Asho"
	Studnome "Asho"
Charles at the 1	UPDATE
	1100000 87 1 2 2 1 20 - 12 121
	UPDATE Student-info SET Stud Name
	'David Sheen' WHERF goll no=2
	DELETE last Enomblet & FROM Students
	info WHERE ROUND = 2
Contract	
	ALTER TABLE Anderty-Mp ADD
	Hobbies fet (tert)
	Andrew Color of the Color of th
1777	UPPARE Andertingo SET noolas =
	to habbies + & chaps Table
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	CREATE TABLE 186-1500 (Countre val,
	Courted Posts none
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hading Data Ecourter valt 1 150 WHERE base name = 'BDA' Create table login (usered int PRIMARE KBY, tent) ENESERT IND COOM (useerd, p) volus (1', int') little till - 30. SELECT TI (passwold) Form logs Emport to CSV copy derlist (in constead

8 4 25	
	Perform the following DB operations using Cassandra:
1)	Greate a Leyspace by nome library
	CREATE KEYSPACE Library WITH replication = & class ': SimpleStrategy 'Replication factor: 13;
- (10)3	Greate a column family by name library -Info with attributes Stud-Id Primary Ley, CountRr_value of type counter, Stud-Name, Book-Name, Book-Id, Dated -issue
The same	CREATE TABLE Library Infol  Stud-Id int,  Stud-Name text,  Book - Id text,  Date of - Thrue date,  PRIHARY KEY (Shid Id, Book  Nome)
•	

CREATE TABLE Book \_ Counter Stud-Id into Bask\_ Name text, Countre Value counter PRIMARY KEY (Stud-Id, Book Insest the values into the table in batch BEGIN RATCH INSERT INTO Library Info (Stud Id Stud-Nome, Book Name, Book Pd, Date - of Issue) VALUES (112 'Rahul', BDA', BK(02' INSERT INTO BOOK Counter (stud To VALUES (112 'BDA'); SPORGE VPDATE BOOK Counter S.F.T Counter Value = Counter value +1 MNHERE STUD-TO =/12 AND BOLD = BOA APPLY DATCH

to griday to show that SELECT FROM Library Info; UPDATE Book\_Counter SET Counter. Halie = Counter value + 1 work WHERE STUDIED = 112 AND BOOK Nome = 'BDA'! SELECT \* FROM Book Counter; output! Studied book name. book id date of in BDA BK102 2025-04-08 1 Stud hame book Laame BDA 112

Write raquery to show that student with id 112 has a bool 1 BDA" 2 times SELECT Counter Value FROM Book WHERE CBDA Enpost the created column HEADER TRUF nows emported

Impost a given est dataset from local file system into causands column family COPY Library Info (Stud Id, St BFROM 'Library Info new-OSV' WITH MEADER =TRUE;



15/4/25	LAB-5 Page
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	The state of the s
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29/4/25	LAB-G	Date
	word Count	
New	Word Country of the C	
-	mapper.py	
	import sys	
	for line in sys. skdin:	
	line = line, strip() worlds = line, split()	
	for word in words!	4 18
	print/os/t%s' % (word, 1)	
	Reduce step! reduces.py	
	from operator import itempetter	N
	impolt sys	
-	Current word = Name  Current_Count = 0  word = None	
	for line in sys. Stdin:	
	Line = line. Starp():	', 1)
	tsy!	
	count = int(count)  except Value Eggs:	
	continue	

if werent word == word: current count += count if current word: plat 90 sx t 405 % (curent wood Coursent - court = court current word = word if the current word = = word: pent'905/t 1/05' % (wellent-world Culent count mapper.py impost sys impost se Jol line in sys. Stdin: line = line Strip(). Lower() world = re. findall (1' /b/w+ /b', line) for word in words! print( f" & word }(t!") Seduces oy impost sys from collection impost defaultdict culsont - word = None Cussent Count = 0

VAS-7, CAB-7 for line in sys. stdin: line - line strip () ward = Count = line split ('It', t) Count = pot (count) if autent\_ word = - word! cultent count += count if current-word! print (f" ( cursent - word ) t Cuerent word = word Cullent-Count = Count if current word == word! pant (f" furgent word! Scherent Conn impost sys for line in sys. Bldin: line = line. Rtasp() of len (line) < 93! month = line . [19:21] I line (87) = + '+':

1= 9229 Leducer. py culrent month = None total-temp = 0 mox temp = total\_temp t= max\_ days +=1 of days 50: phint (f" f martn

	Date
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	for line in sys. Adin!
	line = line. Sterp ()
101	if not line:
	continue
43.3	month temp - line. polit (a(t')
	temp = tint (temp)
17079	if ausent month ! = month.
1 1	if cussent month is not none
( Joseph	emit mean, max (current
	mark
	Current-month = naonth
	tenns = (tems)
	else:
	else:  temps = (temp)  else:  temps append (temp)
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Garder for (ic-1 to 5) pentla (') def wold (apt, 6: At) but = als and (a:nt, sint) out partle (ad (3, n)) val List (123) List = list (mt) = list (123)

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defred clas person p-peranperson = 78124 paint (nochon) def leat(). unt Clas English Geater ontentes grate def veret () = pently 1" pe defrend den Elighen feit def deserble (x: 2y) i ship wouldy describle (x: he) offring



LAB-9 object point no S def nome (aly: askay (828)) for (i <- 1 to 1005) puntle (i) 2. Import org agache food . & conf pall content? val line = schent file ("input tent)
val words + lines of whe long line !)
dword Pant = words not ( word) val word counts = world courts of the I case (wold court Esternal words - count () word calle Cout ( word went) pendler (5° pand - 5 woldcom (pach, b) 3. Hadoop per line & system. words = april (a/b(2-2)+b=15)



for words:

