9. Store and retreeve data in prg

Alo: To implement store and retretive data in prg. Student - data ext Pn the HDFS directory named I data) with the following content

001, Rggfv, Reddy , 9848002 37, Hyderabad. OOR, spadarth, Battacharya, 9848029838, Kolkata 003, Rajesh, Khanna, 9848022359, Dethi 004, preef, Agarwal, 9848022330, pune 005, Thrupthi, mohanthy, 19848, 0023 st. 6, 8huwanthwar we can load do to using the pig storage function as

shown below. Student = LOAD Mars: 11 total host: 9000 | Fig-datal student -data-txt ' USING progstorage (', ') as (rd; fot , pryst name : chararray , last name : chararray ,

STORE Student INTO 1 hats: Il local host : 9000/ prq output 1 using prostorage (") ;

This will store the data into the given directory.

you can verify the geored data as shown below. First of all 19st out the files on the directory named pagoutput using is command as shown below.

\$ hars drs-19 hades: 11 tocalhost: 9000 | prg-output !

found a "tems 700-7-7-1 Hadoop supergroup 0 2020-10-05-13:03 haffs: It locathost: 9000/pg-output 1-500 cess.

\$ hates des-cat hates: 11 locashost; 9000 lpig.output 1, Raggy, Reddy, 9848022337, Hydera bad.

a, seddarth, battacharya, 9848088338, Kolkata

3, Rajeshi Khanna 1 98480253339 ; Dethir

4, preed, Agaswal, 93480 2356, Bhuwanishwar

5, Trupthe, mohanthy, 9848082336, pune.

VALUES (Unital), unital), excited to be learning about cassandra (1 to Timestamp (now ()) 10,00; TO FIND POSTS With more than 100 17KES RELECT * FROM SOCRAL - MEDRA - POSES WHERE TRES > 100 . output post 9d exclted to be teaming about cassandra! aff baffb-ac

54

```
9. Buyer event analytics using cassandra on sultable
   product sales data.
   Aim: Proprement Buyer event analytics using
   Cassandra on suftable product sales data.
   Create a table for storing product sales data.
  CREATE TABLE sales product events (
   event pd wurd primary ket,
   product - Pd uuPd.
   buyer-Pd wulld,
   event time timestamp,
  event - type text ,
  quantity ant,
 price decimal
```

```
ansert a sales event into the table.
INSERT INTO sales product _events ( event _ ?d .
 huyer-9d,
 event - time,
 quantity, price)
 NALUES ( uard (), uurd (), to Timestamp ()), purchase
 1,19.99)
 output
 RELECT* EROM sales product events
 WHERE product -id = especific - product -ids
 AND event-type = " purchase ":
 event - Pd
             buyer-id event-time event-type
              64696de1 2004-06-11
 781003d
               product - ?d quantity
   price
              06 45658e-dtsa
    19.99
```

```
8. Use R-project to carry out statistical analysis of
        beg data.
       sample data for 689-data. ESY
      product_10, product_category, sales_Amount, Date
      1. Electronics , 150 , 2022 - 03-15
     2. C10+hing, 80, 2022-04-22
     3. 600 KS, 120, 2022-05-10
    4. Homedecor, 90, 2022-08-05
    5. Electronics , 200 , 2022 - 01-28
       ciotheng , 50, 2022 - 11-14
    7. Books, 110,2022,-09-19
   8. Home Decor, 70,2022-04-03
   9. Electronics, 180, 2022 - 06-30
  10 . Clothing , 70, 2022 - 10-17
   Postall · Packages ("APIYT")
   Postall . Packages ("ggpiot o")
   LEBTATY ( APIYT)
    Ifbrary ( 99 Plots)
MGIT
```

```
total-Sales < - beg - data 1.2.1.
 total - sales
agprot ( total - sales , ass (x - product - category ,
 y- Total - sales))+
 geom_bar (stat = "fdentity", fill = "sky blue") +
 tabs Ctitle = "Total sales by product caregory",
         X = "Product category",
         y = 11 gotal sales") + theme - mintmall)
    product - category Total - sales
      1 BOOKS
      2 clothing
         Electronics
           Home Decoy 160
```

```
9. Use R-project for data visualization of social
   media data.
   social - media - data - csv
   Text, Hashtags
  " exected to announce the launch of our new products
  · Check out our latest blog post about sustainability!
  " we're hosting a webthar next week on digital
 marketing startegies goth us!
 " Happy Friday everyone! Have a great weekend!
 * mrowback to our team outing last summer.
 "Excred to attend the conterence next month!
  ifbrary (99Piot 2)
 social media datac-read · csv(" social media datacy
```

```
hashtaq - data <- subset ( soctal - mista - data , grep)
(pasteo C" 116", pareticular_hashtag, "116"),
 hashtag - frequency c-nrow chashtag-data)
    geom_bar (data = Nott, asslx = " ", y + hashtaq =
  99Plo+ ()+
   (sequency); et = = = rybine, seat = " Mintery")+
    output
```

- 6. Using power point (excel) perform the following on any dataset.
- a) Big data analytics
- b) shy data charting
- a) Alm: using power point to perform 69g data analytics
 - 1) consider gample data
 - > we use two datasets one is customer into table and the other is the order into table both have customer to
- as the common field.
- s) dietting excel power pryot Add in
- -> OPEN EXCEL
- -> select add- Pas
- > select the manage drop down menu, then select com
- > select Go
- > select me crosoft power proof excel
- -> select OK. It adds the power proof tab to excel.

- select the range of customer anto table. Then, Add to data model from power privat tab.
- > you will notice that new pop up window appears. This is poor privat window.
- H) creating realationship between tables.
- select the power privat wradow Go to home then dragram view.
- -> The simported table will appear as separate boxes in deagram view.



Sections that courses beauting earn one takes to another that THE OYDER JOHO All Dider 20 IIII automti 20 IIII Jhroy Pa III Address III MEANT 間 cfty

5) create perot tables using data models. + in power prot window go to home > privat table. worse proceeding traced pox with oppositional

workshitt and then select ok . The can then calculate and various things.

Row rabers IN	sum of trefaht	pivot table fields	-X
	225 - 58	ACTIVE LALL	
Altrids Ana	99.42	choose fields	
BLOVES	603	Oship vea	
BOID APP	135.7.87	₩ trefaht	
ottom dou as	281-31	T FLITERS	E columns
hop sevy	267-11	7	
re monde	63 7	■ ROINS	z values
	8 32	(comparyname)	sum of tottant

DE APPENT USING POWER point to do big data charting.

circk on power prior tab to button a manage data + get a. amporting data

+ This are dict of options in the data source like to this we will use data from another excel tree.

3 making a basic privat table -suppose you have looking teeping about that held a firm deals: each tine 93 of customer 20 and the sections are name, snyste numer, catt, quartity and pirce.

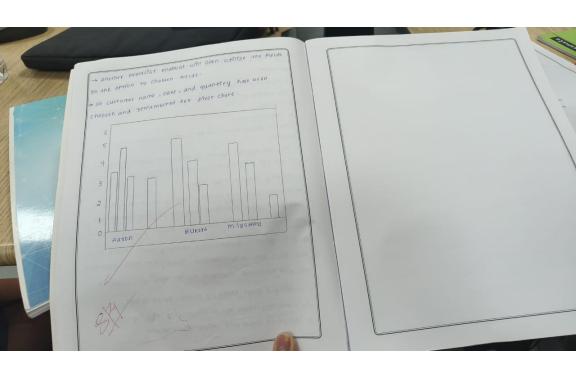
y. P. P. great to bename the thinging name, helic to a title that the Informational index for this situation the title has been changed to invoices affect finish.

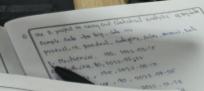
5. making a pivot check a power pivot tables.

3-70 mate this form power privat circle the physicable on the excel cheap and clock priot chart

MGIT

MGIT





specific-product-645

pin: To imprement a simpre word count using

program : Il BOA Word Count Sample Onver Java

smport fava to Doexception:

propost org. apache hadoop. 1s. path;

import org. apache hadoop 10 Intwittable; emport org. apache . hadoop . 90 . Text;

emport org apache hadoop mapred Jobcont;

emport org. apache: hadoop mapred mappes;

emport org. apache. hadoop. mapreduce . Job;

emport org. apache. hadoop. magredace. 196. Enput Fle

amport org. apache. hadoop. mapreduce. 186. anput Text Input format;

emport org. apache. hadoop mapreduce. IPb. output. File output Format;

emport org. apache. hadoop. mapreduce. 196. output : Text output format;

public class BDA Word Count Sample Driver &

- public static void main (string clargs) throws

Doexception, orterrupted exception. class not found exception

Job. 90b = new Job ();

906. set JOBName (" word counter");

```
< long wortable , Text, Text, Int writable & &
@ overrode
                                                                                                                    public class BPAWOORD count sample mapper extends
                                                                                                                                                 import org. apache. hadoop. mapreduce. marper;
                                                                                                                                                                                Propose org. apache. hadoop. to. Texts
                                                                                                                                                                                                               import org. apache. hadgop. 90. Long witable.
                                                                                                                                                                                                                                               import org. apache hadoop, 90. Inturitables
                                                                                                                                                                                                                                                                                   Propost gava. Po. Doexceptions
                                                                                                                                                                                                                                                                                                              11 BDA Word Count Sample mapper . Java
                                                                                                                                                                                                                                                                                                                                                                                                  system-ext (fob- work For completion (true) 90:17)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   FRE OLLEFUL FORMAT . SEE OUTPUT PATO (306) TEMPORTO (" ) SAMPLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          see imput formus add input path (106, newpoth (" Isample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  506 set output value class ( Int wittable . class);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        806. set output key class ( Text-class);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Too are reduces class (BDA WONACOUNE SOM PIE Edduces - Class)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Job setmapper class (Bon word count cample mapper class)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Job . Ser yar By class ( BDA word count sample barver.
```

MGIT

```
projected rold map ( tongumerable key) text value , content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 THEOMS TO EXCEPTION I INTERMUDIAL EXCEPTION E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (Cii' in tilds () Burts 0+ . onton - spiron I I Busht
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 context. white ( new text ( word) , new Intustable ( 1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for (stand proon ; board) ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       emport org. apache. hadrop. To. Inturitables
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Amport gava- 90. Boex ception
                                                                                                                                                                                                                                                                                                                                                                                                                                                   emport org. apache hadoop . Po Texts
                                                                                                                                                                                                                                                                                                                                                                       PUBLEC CLASS BOAWOOD COUNTS ample Driver Reducer extends
                                                                                                                                                                                                                                                                                                                                                                                                               emport org apache hadoop map reduce . Reducer;
                                                                                                                                                                                                                    protected voed reduce Crext word, I texable & Intuitable>
                                                                                                                                                                      Values, context context)
                                                                                                                         throws so exception, somewhere exception [
for (In+ wortable val: values) {
                                                                 Integer Count = 0;
                                                                                                                                                                                                                                                                                                      < text, Intwistable itext. Int wistable > [
                                                                                                                                                                                                                                                                  @ OVERTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4-630
```

```
prin: 10 traplement a straple map-reduce tob that busids
                                                                                                                4-620
                                                       and goverted Podex on the set of Popul DOCS (Haddop)
contest witte (word mew Interplate (county);
                                                       program
                                                        AMPORT Sava - 80 DO Exception .
                                                        amport org. apache hadoop . 90 *;
                                                         emport org. apache hadoop mapreduce . *;
                                                        public class Inverted Indexmapper extends mapper clong
                                                               Witable , Texts Text , Text > {
                                                            prevate Text word - new text ();
                                                             private Text docid = new Text ();
                                                           Doverside
                                                         protected vold map (longwistable key; text value , context
                                                          throws IDEXCEPTION, INTERPRET EXCEPTION &
                                                          strang iene = value. to strang ();
                                                           string [] parts = line . spift [" | t ");
                                                           9f (parts · length > = 2) {
                                                              string Docid = parts Co];
                                                              doced . set (Doced);
                                                             ething cowords - parts [1] . spirt [ "];
```

```
string Builder doculest - new string Builder ();
                                                                                                                                                                            throws 10 tr caption. Interrupted exception [
                                           84 ( doculet length () 20) &
                                                                                       for ( rext docid : values ) {
                                                                                                                                                                                                              contert context)
dociPst append (") 33
                                                                                                                                                                                                                                                          protected vold reduce Chext key. Eterable < rext > values,
                                                                                                                                                                                                                                                                                                      6 ownide
                                                                                                                                                                                                                                                                                                                                               CREXT , TEXT, TEXT, TEXTS. E
                                                                                                                                                                                                                                                                                                                                                                                    public class Inverted Index Reducer extends Reducer
                                                                                                                                                                                                                                                                                                                                                                                                                       empore org. apache. hadoop mapreduce *
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Empore org. apache. hadoop. 80. * .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         smyort gava- Po- LO Exception;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Il Reducer class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 context waste (ward, doctd);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for Esisting without &
```

MGI

```
Il marn class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        context. white ( key . new Text ( doubt to string ( ));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          propose org. apache. hadoop. to. *;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      emport org apache hadoop . es path;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       doctest append ( doctd. to stang ());
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 emport org. apache hadoop mapreduce its input. erie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       porport org. apache. hadoop. mapreduce. *
                                                                                                                                                                                                                                                                                                                                                                                                        public class Inverted Index ex &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        import org. apache hadoop mapriduce . 186 - output . FRICE
                                                                                                                                                                                                                                                                                                                         $ (args -12ng+b 1=a) &
                                                                                                  JOb. 806 = new JOb ();
                                                                                                                                                                                                                                                                                system. em. printlo [" usage: Inverted Index < input path
                                               Job set Jan By class (Inverted Index class)
                                                                                                                                                                                              System. extt ();
gob. set Job Name (" Inverted Index");
                                                                                                                                                                                                                                                                                                                                                            public static vold main (string [] angs) + mows exceptions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Input formats
                                                                                                                                                                                                                                          Courput path > 03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2-1017
```

```
the Input format add Input path (90%, New path CarqsCoss).
       efic output roomat . set output path ( fob , new path large(1))
      906 set mapper class (Inverted Index mapper class);
      Job Set Reducer class [ Inverted Index Reducer class);
      306 set output key class (Text -class);
      306. set output value class ( Text . class);
     system exft ( 106 walt for completion (+140) 70:1);
  compte your code and create a fair file. Then you can
 run your map-reduct tob using hadoop with the tollowing
hadoop for Inverted Index. for inverted Index - input paths
coutput paths
 DOC 1. txt
hello world
hello hadoop
DOC2 . tx+
hadoop. 93 a framework
hello map reduce.
```

PROPERTY DOCS - TAKE

DOC

Prod.

4-03