

- Creating pig script
- Commenting pig script
- Executing –running pig script – with/without parameters
- Sample examples

```
[cloudera@localhost ~]$ gedit dr1
```

```
Milan,1001,5,apollo,500  
Jay,1002,10,apollo,500  
lalit,1003,20,manipal,500  
Mohit,1004,15,columbia,600  
Chauhan,1005,30,narayana,550  
Suraj,1006,25,manipal,650
```

```
[cloudera@localhost ~]$ gedit dr2
```

```
meena,2001,20,rxdx,650  
leena,2001,15,st johns,450  
sonam,2002,30,rxdx,600
```

```
[cloudera@localhost ~]$ gedit empy1
```

```
7001,ameena,10,bang  
7002,amit,20,chennai
```

7003,anand,30,bang
7004,alen,15,hyd
7005,alester,10,hyd
7006,anshul,5,Chennai

[cloudera@localhost ~]\$ gedit pnt1

101,harinath,5,domlur,1004
102,nagarjun,10,varthur,1005
103,chirajeevi,20,HAL,1006
104,tarun,25,HSR,1004
105,prabas,15,marthahalli,1006
106,chaitanya,30,belandur,1003
107,nani,27,krpuram,1004

[cloudera@localhost ~]\$ pig -x local

grunt> clear

grunt> doc1 = load '/home/cloudera/dr1' using PigStorage(',') as
 (name:chararray, id:int, exp:int, hosp:chararray, fees:int);

grunt> dump doc1;

grunt> doc2 = load '/home/cloudera/dr2' using PigStorage(',') as
 (name:chararray, id:int, exp:int, hosp:chararray, fees:int);

grunt> dump doc2;

UNION OPERATOR

The **UNION** operator of Pig Latin is used to merge the content of two relations. To perform UNION operation on two relations, their columns and domains must be identical.

Syntax

```
grunt> Relation_name3 = UNION Relation_name1, Relation_name2;
```

```
grunt> result = union doc1,doc2;
```

```
grunt> dump result;
```

```
(Milan,1001,5,apollo,500)  
(Jay,1002,10,apollo,500)  
(lalit,1003,20,manipal,500)  
(Mohit,1004,15,columbia,600)  
(Chauhan,1005,30,narayana,550)  
(Suraj,1006,25,manipal,650)  
(,,,)   
(meena,2001,20,rxdx,650)  
(leena,2001,15,st johns,450)  
(sonam,2002,30,rxdx,600)
```

SPLIT OPERATOR

The **SPLIT** operator is used to split a relation into two or more relations.

Syntax

Given below is the syntax of the **SPLIT** operator.

```
grunt> SPLIT Relation1_name INTO Relation2_name IF (condition1), Relation3_name IF(condition2)
```

```
grunt> split doc1 into senior if exp>15,junior if (exp>5 and exp<=15);
```

```
grunt> dump senior;
```

```
(lalit,1003,20,manipal,500)
```

```
(Chauhan,1005,30,narayana,550)
```

```
(Suraj,1006,25,manipal,650)
```

```
grunt> dump junior;
```

```
(Jay,1002,10,apollo,500)
```

```
(Mohit,1004,15,columbia,600)
```

ORDER BY OPERATOR

The **ORDER BY** operator is used to display the contents of a relation in a sorted order based on one or more fields.

Syntax

Given below is the syntax of the **ORDER BY** operator.

```
grunt> Relation_name2 = ORDER Relatin_name1 BY Field (ASC|DESC);
```

```
grunt> a = order doc1 by name asc;
```

```
grunt> dump a;
```

```
(Chauhan,1005,30,narayana,550)
```

```
(Jay,1002,10,apollo,500)
```

```
(Milan,1001,5,apollo,500)
```

```
(Mohit,1004,15,columbia,600)
```

```
(Suraj,1006,25,manipal,650)
```

```
(lalit,1003,20,manipal,500)
```

LIMIT OPERATOR

The **LIMIT** operator is used to get a limited number of tuples from a relation.

Syntax

```
grunt> Result = LIMIT Relation_name required number of tuples;
```

```
grunt> a = limit doc1 2;
```

```
grunt> dump a;
```

```
(Jay,1002,10,apollo,500)
```

```
(Milan,1001,5,apollo,500)
```

GROUP OPERATOR

The **GROUP** operator is used to group the data in a relation. It collects the data having the same key.

Syntax

```
grunt> Group_data = GROUP Relation_name BY age;
```

Q) Display the details of the doctors hospital wise.

```
grunt> gr = group doc1 by hosp;
```

```
grunt> dump gr;
```

```
(apollo, {(Milan,1001,5,apollo,500), (Jay,1002,10,apollo,500)})
```

```
(manipal, {(lalit,1003,20,manipal,500), (Suraj,1006,25,manipal,650)})
```

```
(columbia, {(Mohit,1004,15,columbia,600)})
```

```
(narayana, {(Chauhan,1005,30,narayana,550)})
```

Grouping By Multiple Columns

Q) Display the details of the doctors hospital wise with same fees

```
grunt> a = group doc1 by (hosp,fees);
grunt> dump a;
((apollo,500),{(Milan,1001,5,apollo,500),(Jay,1002,10,apollo,500)})
((manipal,500),{(lalit,1003,20,manipal,500)})
((manipal,650),{(Suraj,1006,25,manipal,650)})
((columbia,600),{(Mohit,1004,15,columbia,600)})
((narayana,550),{(Chauhan,1005,30,narayana,550)})
```

CO-GROUP OPERATOR

The **COGROUP** operator works more or less in the same way as the GROUP operator. The only difference between the two operators is that the **group** operator is normally used with one relation, while the **cogroup** operator is used in statements involving two or more relations.

```
grunt> emp1 = load '/home/cloudera/empy1' using PigStorage(',') as
          (id:int, name:chararray, exp:int, place:chararray);
```

```
grunt> a = cogroup doc1 by exp,emp1 by exp;
grunt> dump a;
(5,{(Milan,1001,5,apollo,500)},{(7006,anshul,5,chennai)})
(10,{(Jay,1002,10,apollo,500)},{(7001,ameena,10,bang),(7005,alester,10,hyd)})
(15,{(Mohit,1004,15,columbia,600)},{(7004,alen,15,hyd)})
(20,{(lalit,1003,20,manipal,500)},{(7002,amit,20,chennai)})
(25,{(Suraj,1006,25,manipal,650)},{})
(30,{(Chauhan,1005,30,narayana,550)},{(7003,anand,30,bang)})
```

JOIN OPERATOR

The JOIN operator is used to combine records from two or more relations.

Self-Join

Self-join is used to join a table with itself as if the table were two relations.

```
grunt> doc = load '/home/cloudera/dr1' using PigStorage(',') as  
      (name:chararray, id:int, exp:int, hosp:chararray, fees:int);
```

```
grunt> a = join doc by id, doc1 by id;  
grunt> dump a;  
(Milan,1001,5,apollo,500,Milan,1001,5,apollo,500)  
(Jay,1002,10,apollo,500,Jay,1002,10,apollo,500)  
(lalit,1003,20,manipal,500,lalit,1003,20,manipal,500)  
(Mohit,1004,15,columbia,600,Mohit,1004,15,columbia,600)  
(Chauhan,1005,30,narayana,550,Chauhan,1005,30,narayana,550)  
(Suraj,1006,25,manipal,650,Suraj,1006,25,manipal,650)
```

Inner-Join

It is also referred to as equijoin. An inner join returns rows when there is a match in both tables.

```
grunt> pat = load '/home/cloudera/pnt1' using PigStorage(',') as (pid:int,name:chararray,age:int,addr:chararray,docid:int);
```

Q)display entire details of patient and their corresponding doctor

```
grunt> a = join doc1 by id, pat by docid;  
grunt> dump a;  
(lalit,1003,20,manipal,500,106,chaitanya,30,belandur,1003)  
(Mohit,1004,15,columbia,600,101,harinath,5,domlur,1004)  
(Mohit,1004,15,columbia,600,104,tarun,25,HSR,1004)  
(Mohit,1004,15,columbia,600,107,nani,27,krpuram,1004)  
(Chauhan,1005,30,narayana,550,102,nagarjun,10,varthur,1005)
```

(Suraj,1006,25,manipal,650,103,chirajeevi,20,HAL,1006)
(Suraj,1006,25,manipal,650,105,prabas,15,marthahalli,1006)

Pig Latin Built-in functions:

Eval functions (Avg, Max, Min, Sum, Count, Size, Concat, Tokenize)

```
[cloudera@localhost ~]$ gedit dr1
```

Milan,1001,5,apollo,500
Jay,1002,10,apollo,500
lalit,1003,20,manipal,500
Mohit,1004,15,columbia,600
Chauhan,1005,30,narayana,550
Suraj,1006,25,manipal,650

```
[cloudera@localhost ~]$ pig -x local
```

```
grunt> clear
```

```
grunt> doc = load '/home/cloudera/dr1' using PigStorage(',') as
```

```
    (name:chararray, id:int, exp:int, hosp:chararray, fees:int);
```

```
grunt> dump doc;
```

(Milan,1001,5,apollo,500)
(Jay,1002,10,apollo,500)
(lalit,1003,20,manipal,500)
(Mohit,1004,15,columbia,600)

(Chauhan,1005,30,narayana,550)
(Suraj,1006,25,manipal,650)

Group All

You can group a relation by all the columns as shown below.

```
grunt> group_all = GROUP relation_name All;
```

```
grunt> gr = group doc all;
```

```
grunt> dump gr;
```

(all,{(Milan,1001,5,apollo,500),(Jay,1002,10,Apollo,500),(lalit,1003,20,manipal,500),(Mohit,15,1004,15,)),(Chauhan,1005,30,narayana,550),(Suraj,1006,25,manipal,650),(Jay,102,10,apollo,50)})

AVG():To compute the average of the numerical values within a bag.

Q)Display hospital name, fees and average fees among all the hospital.

```
grunt> result = foreach gr generate doc.hosp,doc.fees,AVG(doc.fees);
```

({(apollo),(apollo),(manipal),(columbia),(narayana),(manipal),()},{(500),(500),(500),(600),(550),(650),()},550.0)

MAX():To calculate the highest value for a column in a single-column bag.

Q)Display hospital name, fees and maximum fees among all the hospital.

```
grunt> result = foreach gr generate doc.hosp,doc.fees,MAX(doc.fees);
```

```
grunt> dump result;
```

({(apollo),(apollo),(manipal),(columbia),(narayana),(manipal),()},{(500),(500),(500),(600),(550),(650),()},650)

MIN(): To get the minimum (lowest) value (numeric or chararray) for a certain column in a single-column bag.

Q)Display hospital name, fees and minimum fees among all the hospital.

```
grunt> result = foreach gr generate doc.hosp,doc.fees,MIN(doc.fees);
```

```
grunt> dump result;
```

```
((apollo),(apollo),(manipal),(columbia),(narayana),(manipal),()),{(500),(500),(500),(600),(550),(650),()},500)
```

SUM(): To get the total of the numeric values of a column in a single-column bag.

Q)Display hospital name, fees and total fees among all the hospital.

```
grunt> result = foreach gr generate doc.hosp,doc.fees,SUM(doc.fees);
```

```
grunt> dump result;
```

```
((apollo),(apollo),(manipal),(columbia),(narayana),(manipal),()),{(500),(500),(500),(600),(550),(650),()},3300)
```

COUNT(): To get the the number of tuples in a bag.

Q)Display total no:of tuples/rows in relation.

```
grunt> result = foreach gr generate COUNT(doc.id);
```

```
grunt> dump result;
```

```
(6)
```

SIZE(): To compute the number of elements based on any Pig data type.

Q)Display doctor name along with the length of doctor name in each row.

```
grunt> ans = foreach doc generate name,SIZE(name);
```

```
grunt> dump ans;
```

```
(Milan,5)
```

```
(Jay,3)
```

```
(lalit,5)
```

```
(Mohit,5)
```

```
(Chauhan,7)
```

```
(Suraj,5)
```

CONCAT(): To concatenate two or more expressions of same type.

```
grunt> ans = foreach doc generate CONCAT(name,hosp);
```

```
grunt> dump ans;
```

```
(Milanapollo)
```

```
(Jayapollo)
```

```
(lalitmanipal)
```

```
(Mohitcolumbia)
```

```
(Chauhannarayana)
```

```
(Surajmanipal)
```

Bag & Tuple Functions

TUPLE CONSTRUCTION:

```
grunt> a = foreach doc generate name,id,exp;
```

```
grunt> dump a;
```

```
(Milan,1001,5)
(Jay,1002,10)
(lalit,1003,20)
(Mohit,1004,15)
(Chauhan,1005,30)
(Suraj,1006,25)
```

BAG CONSTRUCTION:

```
grunt> a = foreach doc generate {(name,id,exp)},{name,id,exp};
```

```
grunt> dump a;
```

```
{{(Milan,1001,5)},{(Milan),(1001),(5)}}
{{(Jay,1002,10)},{(Jay),(1002),(10)}}
{{(lalit,1003,20)},{(lalit),(1003),(20)}}
{{(Mohit,1004,15)},{(Mohit),(1004),(15)}}
{{(Chauhan,1005,30)},{(Chauhan),(1005),(30)}}
{{(Suraj,1006,25)},{(Suraj),(1006),(25)}}
```

MAP CONSTRUCTION:

```
grunt> a = foreach doc generate [name,exp];
```

```
grunt> dump a;
```

```
([Milan#5])
([Jay#10])
([lalit#20])
([Mohit#15])
([Chauhan#30])
([Suraj#25])
```

STRING BUILT_IN FUNCTIONS

SUBSTRING()

Returns a substring from a given string.

Syntax:

SUBSTRING(string, startIndex, ending index+1)

```
grunt> ans = foreach doc generate (id,name),SUBSTRING (name, 0 , 2);
grunt> dump ans;
((1001,Milan),Mi)
((1002,Jay),Ja)
((1003,lalit),la)
((1004,Mohit),Mo)
((1005,Chauhan),Ch)
((1006,Suraj),Su)
```

INDEXOF():Returns the first occurrence of a character in a string, searching forward from a start index.

Syntax:

INDEXOF(string, 'character', startIndex)

```
grunt> ans = foreach doc generate (id,name),INDEXOF(name,'a',0);
grunt> dump ans;
((1001,Milan),3)
((1002,Jay),1)
((1003,lalit),1)
((1004,Mohit),-1)
((1005,Chauhan),2)
((1006,Suraj),3)
```

LCFIRST(): Converts the first character in a string to lower case.

Syntax:

LCFIRST(expression)

```
grunt> ans = foreach doc generate (id,name),LCFIRST(name);
grunt> dump ans;
((1001,Milan),milan)
((1002,Jay),jay)
((1003,lalit),lalit)
((1004,Mohit),mohit)
((1005,Chauhan),chauhan)
((1006,Suraj),suraj)
```

UCFIRST(): Returns a string with the first character converted to upper case.

Syntax:

UCFIRST(expression)

```
grunt> ans = foreach doc generate (id,hosp),UCFIRST(hosp);
grunt> dump ans;
((1001,apollo),Apollo)
((1002,apollo),Apollo)
((1003,manipal),Manipal)
((1004,columbia),Columbia)
((1005,narayana),Narayana)
((1006,manipal),Manipal)
```

UPPER(): Returns a string converted to upper case

Syntax:

UPPER(expression)

```
grunt> ans = foreach doc generate (id,name),UPPER(name);
grunt> dump ans;
((1001,Milan),MILAN)
((1002,Jay),JAY)
((1003,lalit),LALIT)
((1004,Mohit),MOHIT)
((1005,Chauhan),CHAUHAN)
((1006,Suraj),SURAJ)
```

LOWER(): Converts all characters in a string to lower case.

Syntax:

LOWER(expression)

```
grunt> ans = foreach doc generate (id,name),LOWER(name);
grunt> dump ans;
((1001,Milan),milan)
((1002,Jay),jay)
((1003,lalit),lalit)
((1004,Mohit),mohit)
((1005,Chauhan),chauhan)
((1006,Suraj),suraj)
```

REPLACE(): To replace existing characters in a string with new characters.

Syntax:

REPLACE(string, 'oldChar', 'newChar');

```
grunt> ans = foreach doc generate (id,hosp),REPLACE(hosp,'apollo','appo');
grunt> dump ans;
((1001,apollo),appo)
((1002,apollo),appo)
((1003,manipal),manipal)
((1004,columbia),columbia)
((1005,narayana),narayana)
((1006,manipal),manipal)
```

BUILT_IN MATH FUNCTIONS

```
$gedit math1.txt
```

5

16

9

2.5

2

3.5

3.14

-2.2

```
grunt> mat = load '/home/cloudera/ math1.txt' using PigStorage(',') as
                                         (data:float);
```

ABS(): ABSOLUTE VALUE

To get the absolute value of an expression

```
grunt> ans = foreach mat generate data,ABS(data);
grunt> dump ans;
(5.0,5.0)
(16.0,16.0)
```


(9.0,9.0)
(2.5,2.5)
(2.0,2.0)
(3.5,3.5)
(3.14,3.14)
(-2.2,2.2)

CBRT() : cube root

This function is used to get the cube root of an expression.

```
grunt> ans = foreach mat generate data,CBRT(data);
```

```
grunt> dump ans;
```

(5.0,1.709975946676697)
(16.0,2.5198420997897464)
(9.0,2.080083823051904)
(2.5,1.3572088082974532)
(2.0,1.2599210498948732)
(3.5,1.5182944859378313)
(3.14,1.464344366810533)
(-2.2,-1.300591456247907)

SBRT() : square root

To get the positive square root of an expression.

```
grunt> ans = foreach mat generate data,SQRT(data);
```

```
grunt> dump ans;
```

(5.0,2.23606797749979)
(16.0,4.0)
(9.0,3.0)
(2.5,1.5811388300841898)
(2.0,1.4142135623730951)

```
(3.5,1.8708286933869707)
(3.14,1.7720045442673602)
(-2.2,NaN)
```

COS():

This function is used to get the trigonometric cosine of an expression.

```
grunt> ans = foreach mat generate data,COS(data);
grunt> dump ans;
(5.0,0.28366218546322625)
(16.0,-0.9576594803233847)
(9.0,-0.9111302618846769)
(2.5,-0.8011436155469337)
(2.0,-0.4161468365471424)
(3.5,-0.9364566872907963)
(3.14,-0.99999873189461)
(-2.2,-0.5885011558074578)
```

SIN():

To get the sine of an expression.

```
grunt> ans = foreach mat generate data,SIN(data);
grunt> dump ans;
(5.0,-0.9589242746631385)
(16.0,-0.2879033166650653)
(9.0,0.4121184852417566)
(2.5,0.5984721441039564)
(2.0,0.9092974268256817)
(3.5,-0.35078322768961984)
(3.14,0.0015925480124451862)
(-2.2,-0.8084963757576692)
```

TAN():

To get the trigonometric tangent of an angle.

```
grunt> ans = foreach mat generate data,TAN(data);
```

```
grunt> dump ans;
```

```
(5.0,-3.380515006246586)
(16.0,0.3006322420239034)
(9.0,-0.45231565944180985)
(2.5,-0.7470222972386603)
(2.0,-2.185039863261519)
(3.5,0.3745856401585947)
(3.14,-0.0015925500319664656)
(-2.2,1.37382291908733)
```

CEIL():

This function is used to get the value of an expression rounded up to the nearest integer.

```
grunt> ans = foreach mat generate data,CEIL(data);
```

```
grunt> dump ans;
```

```
(5.0,5.0)
(16.0,16.0)
(9.0,9.0)
(2.5,3.0)
(2.0,2.0)
(3.5,4.0)
(3.14,4.0)
(-2.2,-2.0)
```

FLOOR():

To get the value of an expression rounded down to the nearest integer.

```
grunt> ans = foreach mat generate data,FLOOR(data);
```

```
grunt> dump ans;
```

```
(5.0,5.0)
```

```
(16.0,16.0)
```

```
(9.0,9.0)
```

```
(2.5,2.0)
```

```
(2.0,2.0)
```

```
(3.5,3.0)
```

```
(3.14,3.0)
```

```
(-2.2,-3.0)
```

ROUND():

To get the value of an expression rounded to an integer (if the result type is float) or rounded to a long (if the result type is double).

```
grunt> ans = foreach mat generate data,ROUND(data);
```

```
grunt> dump ans;
```

```
(5.0,5)
```

```
(16.0,16)
```

```
(9.0,9)
```

```
(2.5,3)
```

```
(2.0,2)
```

```
(3.5,4)
```

```
(3.14,3)
```

```
(-2.2,-2)
```

EXP():

This function is used to get the Euler's number e raised to the power of x.

```
grunt> ans = foreach mat generate data, EXP(data);
```

```
grunt> dump ans;
```

```
(5.0,148.4131591025766)  
(16.0,8886110.520507872)  
(9.0,8103.083927575384)  
(2.5,12.182493960703473)  
(2.0,7.38905609893065)  
(3.5,33.11545195869231)  
(3.14,23.103869282414397)  
(-2.2,0.1108031530788277)
```

LOG10():

To get the base 10 logarithm of an expression.

```
grunt> ans = foreach mat generate data, LOG10(data);
```

```
grunt> dump ans;
```

```
(5.0,0.6989700043360189)  
(16.0,1.2041199826559248)  
(9.0,0.9542425094393249)  
(2.5,0.3979400086720376)  
(2.0,0.3010299956639812)  
(3.5,0.5440680443502757)  
(3.14,0.4969296625825472)  
(-2.2,NaN)
```

LOG():

To get the natural logarithm (base e) of an expression.

```
grunt> ans = foreach mat generate data, LOG(data);
```

```
grunt> dump ans;
```

```
(5.0,1.6094379124341003)
```

(16.0,2.772588722239781)
(9.0,2.1972245773362196)
(2.5,0.9162907318741551)
(2.0,0.6931471805599453)
(3.5,1.252762968495368)
(3.14,1.1442228333291342)
(-2.2,NaN)

Apache Pig - Running Scripts

Word count Program:

To create a data file

```
[cloudera@localhost ~]$ gedit datafile7
```

```
hai hello how are you  
are you fine  
the world is very beautiful  
my name is raj  
i live in bangalore  
i am fine
```

Save & Close

To put this file into hadoop

```
[cloudera@localhost ~]$ hadoop fs -put datafile7 /user/cloudera/
```

To create a pig latin script

```
[cloudera@localhost ~]$ gedit wcount7.pig
```

```
file = load '/user/cloudera/datafile7' as (line:chararray);  
t = foreach file generate flatten(TOKENIZE(line)) as word;  
gr = group t by word;  
wc = foreach gr generate group,COUNT(t.word);  
dump wc;  
store wc into '/user/cloudera/script_o7' using PigStorage();
```

Save & Close

To run the pig latin script

```
[cloudera@localhost ~]$ pig wcount7.pig
```

```
2018-03-28 00:24:21,302 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success!
```

To check the output

```
[cloudera@localhost ~]$ hadoop fs -ls /user/cloudera/script_o7
```

Found 3 items

```
-rw-r--r--  3 cloudera cloudera      0 2018-03-28 00:24 /user/cloudera/script_o7/_SUCCESS
drwxr-xr-x  - cloudera cloudera      0 2018-03-28 00:23 /user/cloudera/script_o7/_logs
-rw-r--r--  3 cloudera cloudera    128 2018-03-28 00:24 /user/cloudera/script_o7/part-r-00000
```

[cloudera@localhost ~]\$ hadoop fs -cat /user/cloudera/script_o7/part*

```
i      2
am     1
in     1
is     2
my     1
are    2
hai    1
how    1
raj    1
the    1
you    2
fine   2
live   1
name   1
very   1
hello  1
world  1
bangalore    1
beautiful    1
```

Grep Program:

To create a pig latin script

```
[cloudera@localhost ~]$ gedit grep.pig
```

```
file = load '/user/cloudera/datafile1' as (line:chararray);  
token = foreach file generate flatten(TOKENIZE(line)) as word;  
t = filter token by word matches 'you';  
gr = group t by word;  
wc = foreach gr generate group,COUNT(t.word);  
dump wc;  
store wc into '/user/cloudera/script_o8' using PigStorage();
```

Save & Close

To run the pig latin script

```
[cloudera@localhost ~]$ pig grep.pig
```

```
2018-03-28 00:43:05,939 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success!
```

To check the output

```
[cloudera@localhost ~]$ hadoop fs -ls /user/cloudera/script_o2
```

Found 3 items

```
-rw-r--r--  3 cloudera cloudera      0 2018-03-28 00:43 /user/cloudera/script_o8/_SUCCESS  
drwxr-xr-x  - cloudera cloudera      0 2018-03-28 00:42 /user/cloudera/script_o8/_logs  
-rw-r--r--  3 cloudera cloudera     6 2018-03-28 00:42 /user/cloudera/script_o8/part-r-00000
```

```
[cloudera@localhost ~]$ hadoop fs -cat /user/cloudera/script_o8/part*
```