We have employee\_details and employee\_expenses files. Use local mode while running Pig and write Pig Latin script to get below results:

(a) Top 5 employees (employee id and employee name) with highest rating. (In case two employees have same rating, employee with name coming first in dictionary should get preference)

```
A = load '/home/acadgild/emp_details.txt' using PigStorage(',') as (id:int,name:chararray,salary:long,rating:int);
B = ORDER A by rating DESC, name;
C = limit B 5;
D = foreach C generate id, name;
Store D into '/home/acadgild/10.3a/';
[acadgild@localhost ~]$ pig -x local /home/acadgild/10.3.1.pig
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/hbase-1.0.3/lib/slf4j-log4j12-1.7.7.jar!/org/slf4j/impl/StaticLoggerBinder.c
lass]
SLF4J: Found binding in [jar:file:/home/acadgild/hadoop-2.7.2/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/imp
l/StaticLoggerBinder.class]
CIEAT: See http://www.slfAi.org/codes.html#multiple hindings for an evolunation
[acadgild@localhost ~]$ ls /home/acadgild/10.3a/
part-r-00000
                SUCCESS
[acadgild@localhost ~]$ cat /home/acadgild/10.3a/part-r-00000
105
         Pawan
110
         Priyanka
104
         Anubhav
109
        Katrina
103
        Akshay
[acadgild@localhost ~]$
                                                                     I
```

(b) Top 3 employees (employee id and employee name) with highest salary, whose employee id is an odd number. (In case two employees have same salary, employee with name coming first in dictionary should get preference)

```
A = load '/home/acadgild/emp_details.txt' using PigStorage(',') as (id:int,name:chararray,salary:long,rating:int);
B = filter A by (id%2==1);
C = ORDER B by salary DESC,name;
D = limit C 3;
E = foreach D generate id,name;
Store E into '/home/acadgild/10.3b/';
```

```
[acadgild@localhost ~]$ pig -x local /home/acadgild/10.3.2.pig
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/hbase-1.0.3/lib/slf4j-log4j12-1.7.7.jar!/org/slf4j/impl/StaticLoggerBinder.c lass]
SLF4J: Found binding in [jar:file:/home/acadgild/hadoop-2.7.2/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]

[acadgild@localhost ~]$ ls /home/acadgild/10.3b/
part-r-00000 SUCCESS
[acadgild@localhost ~]$ cat /home/acadgild/10.3b/part-r-00000
101 Amitabh
107 Salman
103 Akshay
[acadgild@localhost ~]$ |
```

(c) Employee (employee id and employee name) with maximum expense (In case two employees have same expense, employee with name coming first in dictionary should get preference)

```
A = load '/home/acadgild/emp details.txt' using PigStorage(',') as (emp id:int,name:chararray,salary:long,rating:int);
B = load '/home/acadgild/emp_expenses.txt' as (id:int,exp:int);
C = group B by id;
D = foreach C generate group as id,SUM(B.exp) as sum;
E = JOIN A by emp_id,D by id;
F = foreach E generate emp id, name, sum;
G = ORDER F by sum DESC;
H = limit G 1;
I = foreach H generate emp_id,name;
Store I into '/home/acadgild/10.3c/';
[acadgild@localhost ~]$ pig -x local /home/acadgild/10.3.3.pig
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/hbase-1.0.3/lib/slf4j-log4j12-1.7.7.jar!/org/slf4j/impl/StaticLoggerBinder.c
SLF4]: Found binding in [jar:file:/home/acadgild/hadoop-2.7.2/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/imp
2017-03-17 17:44:02,831 [main] INFO org.apache.pig.Main - Pig script completed in 8 seconds and 173 milliseconds (8173 ms)
[acadgild@localhost ~]$ ls /home/acadgild/10.3c/
part-r-00000 SUCCESS
[acadgild@localhost ~]$ cat /home/acadgild/10.3c/part-r-00000
       Shahrukh
[acadgild@localhost ~]$
```

(d) List of employees (employee id and employee name) having entries in employee\_expenses file.

```
A = load '/home/acadgild/emp_details.txt' using PigStorage(',') as (emp_id:int,name:chararray,salary:long,rating:int);
B = load '/home/acadgild/emp_expenses.txt' as (id:int,exp:int);
C = JOIN A by emp_id,B by id;

D = foreach C generate emp_id,name;
E = DISTINCT D;
Store E into '/home/acadgild/10.3D/';
```

[acadgild@localhost ~]\$ pig -x local /home/acadgild/10.3.4.pig

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in [jar:file:/home/acadgild/hbase-1.0.3/lib/slf4j-log4j12-1.7.7.jar!/org/slf4j/impl/StaticLoggerBinder.c lass]

SLF4J: Found binding in [jar:file:/home/acadgild/hadoop-2.7.2/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings for an explanation.

```
[acadgild@localhost ~]$ ls /home/acadgild/10.3D/
part-r-00000 SUCCESS
[acadgild@localhost ~]$ cat /home/acadgild/10.3D/part-r-00000
101
       Amitabh
102
       Shahrukh
104
       Anubhav
105
       Pawan
110
       Priyanka
                                                                                                                          Ι
114
       Madhuri
[acadgild@localhost ~]$
```

(e) List of employees (employee id and employee name) having no entry in employee\_expenses file.

```
A = load '/home/acadgild/emp_details.txt' using PigStorage(',') as (emp_id:int,name:chararray,salary:long,rating:int);
B = load '/home/acadgild/emp_expenses.txt' as (id:int,exp:int);
C = JOIN A by emp_id LEFT OUTER,B by id;
D = filter C by B::id is null;
E = foreach D generate A::emp_id,name;
F = DISTINCT E;
store F into '/home/acadgild/10.3e/';
```

```
[acadgild@localhost ~]$ pig -x local /home/acadgild/10.3.5.pig

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in [jar:file:/home/acadgild/hbase-1.0.3/lib/slf4j-log4j12-1.7.7.jar!/org/slf4j/impl/StaticLoggerBinder.c lass]

SLF4J: Found binding in [jar:file:/home/acadgild/hadoop-2.7.2/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
```

```
[acadgild@localhost ~]$ ls /home/acadgild/10.3e/
part-r-00000
             SUCCESS
[acadgild@localhost ~]$ cat /home/acadgild/10.3e/part-r-00000
103
       Akshay
106
       Aamir
107
       Salman
108
       Ranbir
109
       Katrina
111
       Tushar
112
       Ajay
       Jubeen
113
[acadgild@localhost ~]$
```