**(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)**

emp\_details = load '/user/acadgild/employee\_details.txt' using PigStorage(',') as (id:int,name:chararray,salary:double,rating:int);

result1 = foreach emp\_details generate id,name,rating;

result2 =group result1 by rating ;

result3= order result2 by $0 desc;

result4= foreach result3{

a1= order result1 by name asc;

a2= foreach a1 generate id,name,flatten(rating);

generate a2;

};

result5 = foreach result4 generate flatten($0);

result6 = limit result5 5;

result7= limit result6 5;

store result7 into 'pigresult\_assignment1' using PigStorage(',');

**OUTPUT:**

101,Amitabh,20000.0  
107,Salman,17500.0  
103,Akshay,11000.0  
105,Pawan,2500.0  
109,Katrina,1000.0

**(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)**

emp\_details = load '/user/acadgild/employee\_details.txt' using PigStorage(',') as (id:int,name:chararray,salary:double,rating:int);

result2A = foreach emp\_details generate $0,$1,$2,(

CASE

WHEN $0 % 2 == 0 THEN 0

WHEN $0 % 2 == 1 THEN 1

END

);

result2B = filter result2A by ($3==1);

result2C = foreach result2B generate id,name,salary;

result2E = group result2C by salary;

result4= foreach result2E{

a1= order result2C by name asc;

a2= foreach a1 generate id,name,flatten(salary);

generate a2;

};

result5= foreach result4 generate flatten($0);

result6= order result5 by salary desc;

result7= limit result6 3;

store result7 into 'pigresult\_assignment2' using PigStorage(',');

**OUTPUT:**

101,Amitabh,20000.0  
107,Salman,17500.0  
103,Akshay,11000.0

**(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)**

**emp\_details = load '/user/acadgild/employee\_details.txt' using PigStorage(',') as (id:int,name:chararray,salary:double,rating:int);**

emp\_expenses = load '/user/acadgild/employee\_expenses.txt' using PigStorage('\t') as (id:int,expense:double);

A= join emp\_details by id,emp\_expenses by id;

B = foreach A generate emp\_details::id as id, emp\_details::name as name ,emp\_expenses::expense as expense;

C= group B by id;

D = foreach C generate group as id,(B.name) as name,SUM(B.expense) as expense;

E= foreach D generate id,FLATTEN(name.$0),expense;

F= DISTINCT E;

G = order F by expense desc;

H= limit G 1;

STORE H into 'pigresult2c' using PigStorage(',');

**OUTPUT:**

102,Shahrukh,500.0

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

**file.**

emp\_details = load '/user/acadgild/employee\_details.txt' using PigStorage(',') as (id:int,name:chararray,salary:double,rating:int);

emp\_expenses = load '/user/acadgild/employee\_expenses.txt' using PigStorage('\t') as (id:int,expense:double);

A= join emp\_details by id,emp\_expenses by id;

B = foreach A generate emp\_details::id as id, emp\_details::name as name ;

C= distinct B;

STORE C into 'pigress2d' using PigStorage(',');

**OUTPUT:**

101,Amitabh  
102,Shahrukh  
104,Anubhav  
105,Pawan  
110,Priyanka  
114,Madhuri

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

**file.**

emp\_details = load '/user/acadgild/employee\_details.txt' using PigStorage(',') as (id:int,name:chararray,salary:double,rating:int);

emp\_expenses = load '/user/acadgild/employee\_expenses.txt' using PigStorage('\t') as (id:int,expense:double);

A= join emp\_details by id LEFT OUTER,emp\_expenses by id;

B = filter A by $4 is null;

C= foreach B generate $0,$1;

STORE C into 'pigresult2d' using PigStorage(',');

**OUTPUT:**

103,Akshay  
106,Aamir  
107,Salman  
108,Ranbir  
109,Katrina  
111,Tushar  
112,Ajay  
113,Jubeen