**Assignment 10.3**

1. (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)
2. (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)
3. (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)
4. (d) List of employees (employee id and employee name) having entries in employee\_expenses file.
5. (e) List of employees (employee id and employee name) having no entry in employee\_expenses file.

**Code 1:**

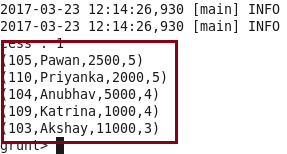
A = LOAD ‘home/acadgild/empdet.txt/’ USING PigStorage(‘,’) AS (no:int, name:chararray, sal:int, rating:int);

B= order A by rating DESC, name;

C = limit B 5;

DUMP C;

**Output 1:**



**Code 2:**

A = LOAD ‘home/acadgild/empdet.txt/’ USING PigStorage(‘,’) AS (no:int, name:chararray, sal:int, rating:int);

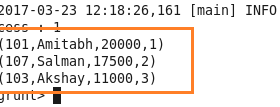
B = FILTER A by (no%2!=0);

C = ORDER B by sal DESC, name;

D = LIMIT C 3;

DUMP D;

**Output 2:**



**Code 3 :**

A = LOAD ‘home/acadgild/empdet.txt/’ USING PigStorage(‘,’) AS (no:int, name:chararray, sal:int, rating:int);

B = LOAD ‘home/acadgild/empexpenses.txt/’ AS (no:int , expense :int);

Join\_AB = JOIN A by no, B by no;

C = FOREACH Join\_AB generate A::no, A::name, B::expense;

D = GROUP C by (no,name);

E = FOREACH D generate group, SUM(C.B::expense) as sum;

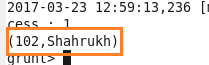
F = ORDER E by sum DESC;

G = LIMIT F 1;

F = FOREACH G generate FLATTEN(group);

DUMP F;

**Output 3:**



**CODE 4 :**

A = LOAD ‘home/acadgild/empdet.txt/’ USING PigStorage(‘,’) AS (no:int, name:chararray, sal:int, rating:int);

B = LOAD ‘home/acadgild/empexpenses.txt/’ AS (no:int , expense :int);

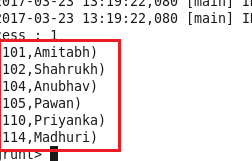
Join\_AB = JOIN A by no, B by no;

C = FOREACH join\_AB generate A::no, A::name;

D = DISTINCT C;

DUMP D;

**Output 4:**



**Code 5:**

A = LOAD ‘home/acadgild/empdet.txt/’ USING PigStorage(‘,’) AS (no:int, name:chararray, sal:int, rating:int);

B = LOAD ‘home/acadgild/empexpenses.txt/’ AS (no:int , expense :int);

Join\_AB = JOIN A by no LEFT OUTER, B by no;

C = FILTER Join\_AB by B::expense is NULL;

D = FOREACH C generate A::id, A::name;

DUMP D;

**Output 5 :**

