

**TASK 2 : We have employee\_details and employee\_expenses files. Use local mode while running Pig and write Pig Latin script to get below results:**

**employee\_details (EmpID,Name,Salary,DepartmentID)**

[https://github.com/prateekATacadgild/DatasetsForCognizant/blob/master/employee\\_details.txt](https://github.com/prateekATacadgild/DatasetsForCognizant/blob/master/employee_details.txt)

**employee\_expenses(EmpID,Expense)**

[https://github.com/prateekATacadgild/DatasetsForCognizant/blob/master/employee\\_expenses.txt](https://github.com/prateekATacadgild/DatasetsForCognizant/blob/master/employee_expenses.txt)

**1)grunt> employee\_details = load '/home/acadgild/employee\_details.txt' using PigStorage(',') as (empId:int,empName:chararray,salary:int,rating:int);**

**2)dump employee\_Details**

(101,Amitabh,20000,1)

(102,Shahrukh,10000,2)

(103,Akshay,11000,3)

(104,Anubhav,5000,4)

(105,Pawan,2500,5)

(106,Aamir,25000,1)

(107,Salman,17500,2)

(108,Ranbir,14000,3)

(109,Katrina,1000,4)

(110,Priyanka,2000,5)

(111,Tushar,500,1)

(112,Ajay,5000,2)

(113,Jubeen,1000,1)

(114,Madhuri,2000,2)

**3)employee\_expenses = LOAD '/home/acadgild/employee\_expenses.txt' using PigStorage('\t') as (empId:int,empExpense:Int);**

**4)dump employee\_expenses**

(101,200)

(102,100)

(110,400)

(114,200)

(119,200)

(105,100)

(101,100)

(104,300)

(102,400)

***(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)***

**SOLUTION:**

**1)ratings\_order = ORDER employee\_details by rating DESC, empName;**

**2)dump ratings\_order**

(105,Pawan,2500,5)

(110,Priyanka,2000,5)

(104,Anubhav,5000,4)

(109,Katrina,1000,4)

(103,Akshay,11000,3)

(108,Ranbir,14000,3)

(112,Ajay,5000,2)

(114,Madhuri,2000,2)

(107,Salman,17500,2)

(102,Shahrukh,10000,2)

(106,Aamir,25000,1)

(101,Amitabh,20000,1)

(113,Jubeen,1000,1)

(111,Tushar,500,1)

**3)output\_a = LIMIT ratings\_order 5;**

**4)dump output\_a;----->RESULT**

**(105,Pawan,2500,5)**

**(110,Priyanka,2000,5)**

**(104,Anubhav,5000,4)**

**(109,Katrina,1000,4)**

**(103,Akshay,11000,3)**

***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)***

**1)emp\_oddID = FILTER employee\_details by empld%2==1;**

**2)dump emp\_oddID;**

(101,Amitabh,20000,1)

(103,Akshay,11000,3)

(105,Pawan,2500,5)

(107,Salman,17500,2)

(109,Katrina,1000,4)

(111,Tushar,500,1)

(113,Jubeen,1000,1)

**3)highest\_salary= ORDER emp\_oddID by salary DESC,empName;**

**4)dump highest\_salary;**

(101,Amitabh,20000,1)

(107,Salman,17500,2)

(103,Akshay,11000,3)

(105,Pawan,2500,5)

(113,Jubeen,1000,1)

(109,Katrina,1000,4)

(111,Tushar,500,1)

**5)ouput\_b= LIMIT highest\_salary 3;**

**6)dump ouput\_b----->RESULT**

**(101,Amitabh,20000,1)**

**(107,Salman,17500,2)**

**(103,Akshay,11000,3)**

***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)***

**1)IN\_join = JOIN employee\_expenses by empld , employee\_details by empld;**

**2)dump IN\_join;**

(101,100,101,Amitabh,20000,1)

(101,200,101,Amitabh,20000,1)

(102,400,102,Shahrukh,10000,2)

(102,100,102,Shahrukh,10000,2)

(104,300,104,Anubhav,5000,4)

(105,100,105,Pawan,2500,5)

(110,400,110,Priyanka,2000,5)

(114,200,114,Madhuri,2000,2)

**3)max\_expense = ORDER IN\_join by employee\_expenses::empExpense  
DESC,employee\_details::empName;**

**4)dump max\_expense;**

(110,400,110,Priyanka,2000,5)

(102,400,102,Shahrukh,10000,2)

(104,300,104,Anubhav,5000,4)

(101,200,101,Amitabh,20000,1)

(114,200,114,Madhuri,2000,2)

(101,100,101,Amitabh,20000,1)

(105,100,105,Pawan,2500,5)

(102,100,102,Shahrukh,10000,2)

**5)ouput\_c= LIMIT max\_expense 1;----->RESULT**

**(110,400,110,Priyanka,2000,5)**

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

**1)IN\_join = JOIN employee\_expenses by empId , employee\_details by empId;**

**2)IN\_foreach = FOREACH combo generate employee\_details::empId, employee\_details::empName;**

**3)dump IN\_foreach;**

(101,Amitabh)

(101,Amitabh)

(102,Shahrukh)

(102,Shahrukh)

(104,Anubhav)

(105,Pawan)

(110,Priyanka)

(114,Madhuri)

**4)output\_d = DISTINCT IN\_foreach;**

**5)dump output\_d;----->RESULT**

(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.**

**1)join\_right= JOIN employee\_expenses by empId RIGHT OUTER, employee\_details by empId;**

**2)dump join\_right;**

(101,100,101,Amitabh,20000,1)

(101,200,101,Amitabh,20000,1)

(102,400,102,Shahrukh,10000,2)

(102,100,102,Shahrukh,10000,2)

(,,103,Akshay,11000,3)

(104,300,104,Anubhav,5000,4)

(105,100,105,Pawan,2500,5)

(,,106,Aamir,25000,1)

(,,107,Salman,17500,2)

(,,108,Ranbir,14000,3)

(,,109,Katrina,1000,4)

(110,400,110,Priyanka,2000,5)

(,,111,Tushar,500,1)

(,,112,Ajay,5000,2)

(,,113,Jubeen,1000,1)

(114,200,114,Madhuri,2000,2)

**3)filter\_expense= FILTER join\_right by employee\_expenses::empld is null;**

**4)dump filter\_expense;**

(,,103,Akshay,11000,3)

(,,106,Aamir,25000,1)

(,,107,Salman,17500,2)

(,,108,Ranbir,14000,3)

(,,109,Katrina,1000,4)

(,,111,Tushar,500,1)

(,,112,Ajay,5000,2)

(,,113,Jubeen,1000,1)

**5)output\_e= FOREACH filter\_expense GENERATE  
employee\_details::empld,employee\_details::empName;**

**6)dump output\_e;----->RESULT**

**(103,Akshay)**

**(106,Aamir)**

**(107,Salman)**

**(108,Ranbir)**

**(109,Katrina)**

**(111,Tushar)**

**(112,Ajay)**

**(113,Jubeen)**