

Pig Script examples:

(i) Write a Pig Script to display Names of all Male Students.

```
-- Load the data from 'st.txt' using PigStorage and define the schema
rl = LOAD 'hdfs://localhost:9000/ex/st.txt' using PigStorage(',') as (Name:
chararray, dist: chararray, age: int, gender: chararray);

-- Display the loaded data
dump rl;

-- Filter the data to select male students
ml = FILTER rl by gender=='male';

-- Display the male students' data
dump ml;

-- Project the 'Name' field from the filtered data
fe = FOREACH ml GENERATE Name;

-- Display the names of male students
dump fe;
```

(ii) Write a Pig Script to find the number of students from Guntur district.

```
-- Filter the data to select students from Guntur district
dd = FILTER rl by dist=='guntur';

-- Display the filtered data
dump dd;

-- Project the 'Name' field from the filtered data
fe2 = FOREACH dd GENERATE Name;

-- Display the names of students from Guntur district
dump fe2;

-- Group the names of students
g = GROUP fe2 ALL;

-- Display the grouped data
dump g;

-- Calculate the count of students in the group
```

```
a_count = FOREACH g GENERATE COUNT(fe2);
```

```
-- Display the count of students  
dump a_count;
```

(iii) Write a Pig Script to display district-wise count of all female students.

```
-- Filter the data to select female students  
fml = FILTER rl by gender=='female';
```

```
-- Display the filtered data  
dump fml;
```

```
-- Group the data by district  
gr = GROUP rl by dist;
```

```
-- Display the grouped data  
dump gr;
```

```
-- Calculate the count of female students in each district  
co = FOREACH gr GENERATE group, COUNT(fml);
```

```
-- Display the district-wise count of female students  
DUMP co;
```