Explain the working of below pig script commands with an example:

1. LOAD 2. STORE 3. DUMP 4. FOREACH 5. FILTER 6. GROUP BY 7. ORDER BY 8. DESCRIBE

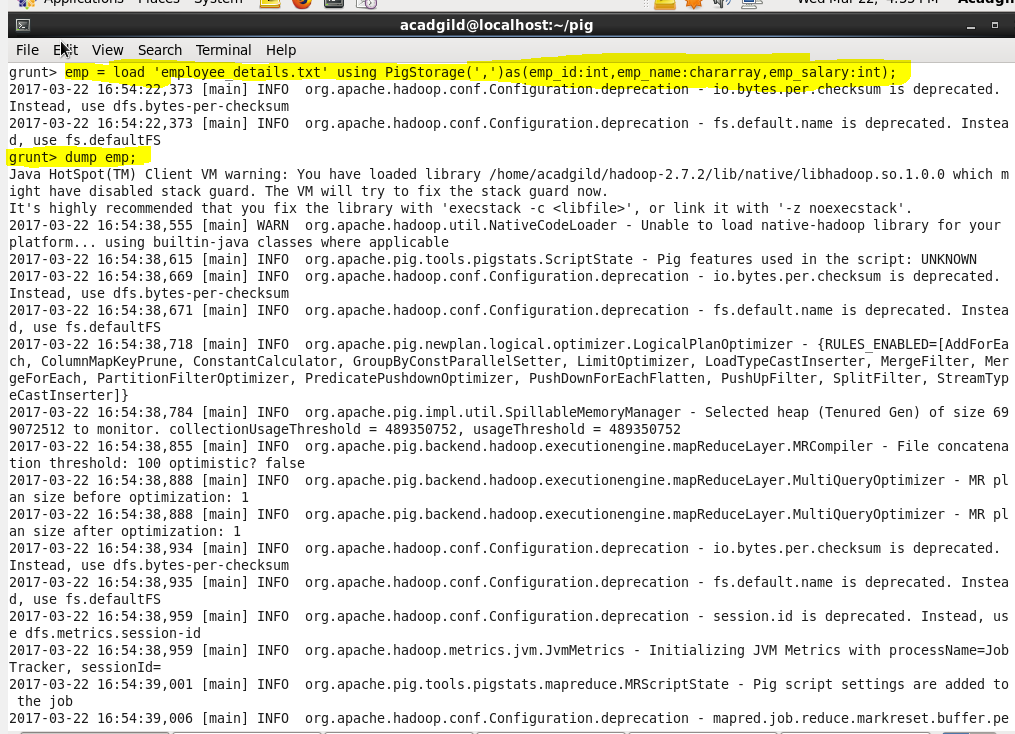
LOAD:

We can load data into Pig from the file system (HDFS/ Local) using ***LOAD*** operator of Pig Latin.

**Syntax:**

***Relation\_name = LOAD ‘Input file Path’ USING function as schema;***

The load statement consists of two parts divided by the “=” operator. On the left-hand side, we need to mention the name of the relation where we want to store the data, and on the right-hand side, we have to define how we store the data. Given below is the syntax of the Load operator.

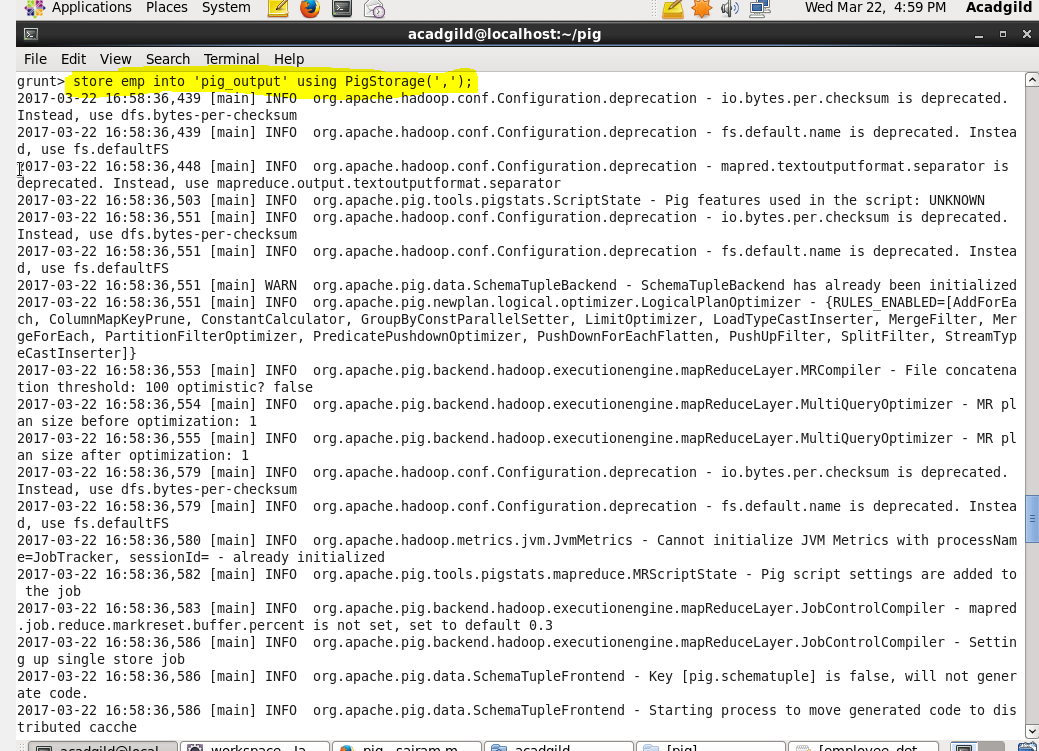


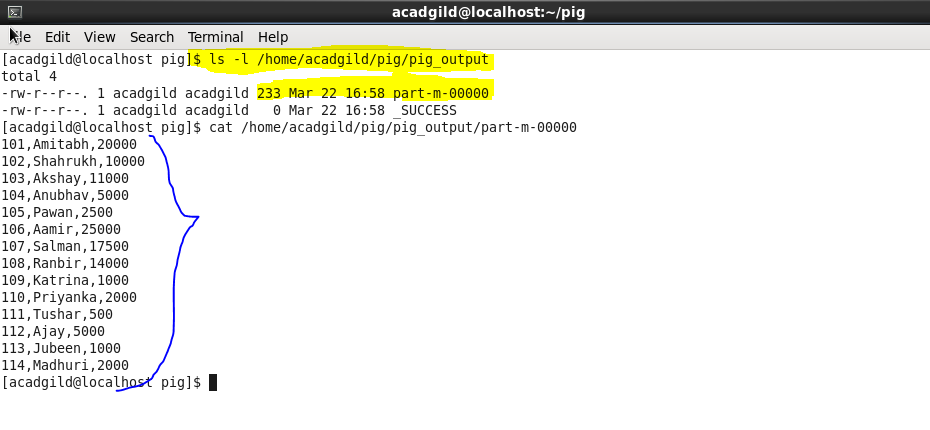
STORE:

We can store the loaded data in the file system using the ***store*** operator.

**Syntax:**

***STORE Relation\_name INTO ‘required\_directory\_path’ [USING Function];***

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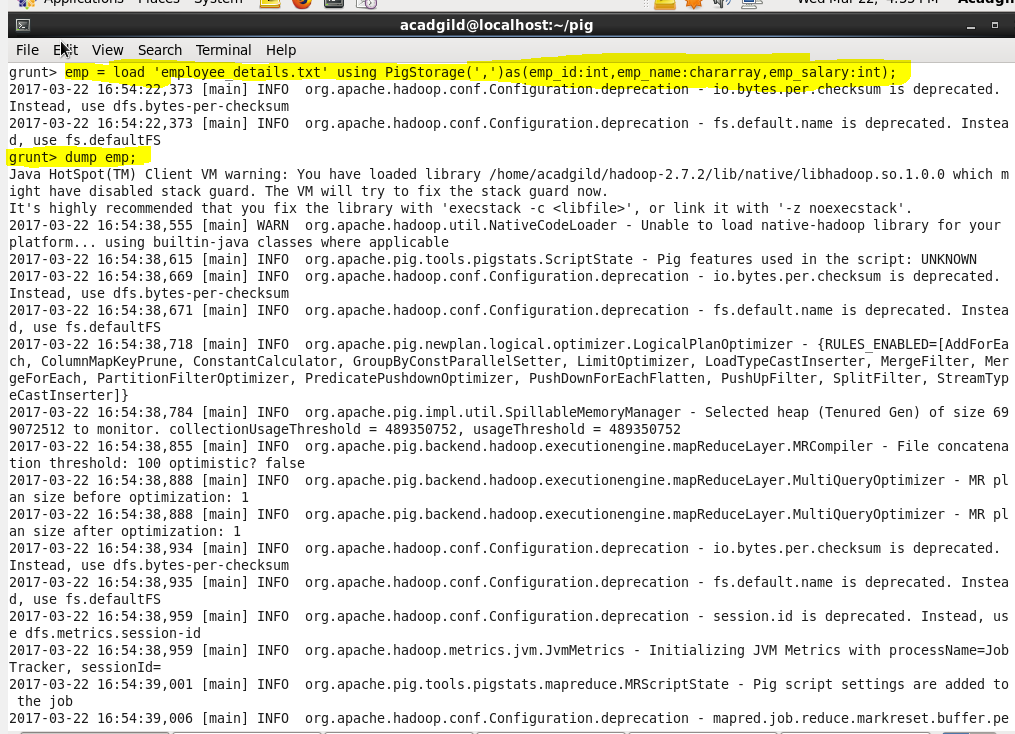


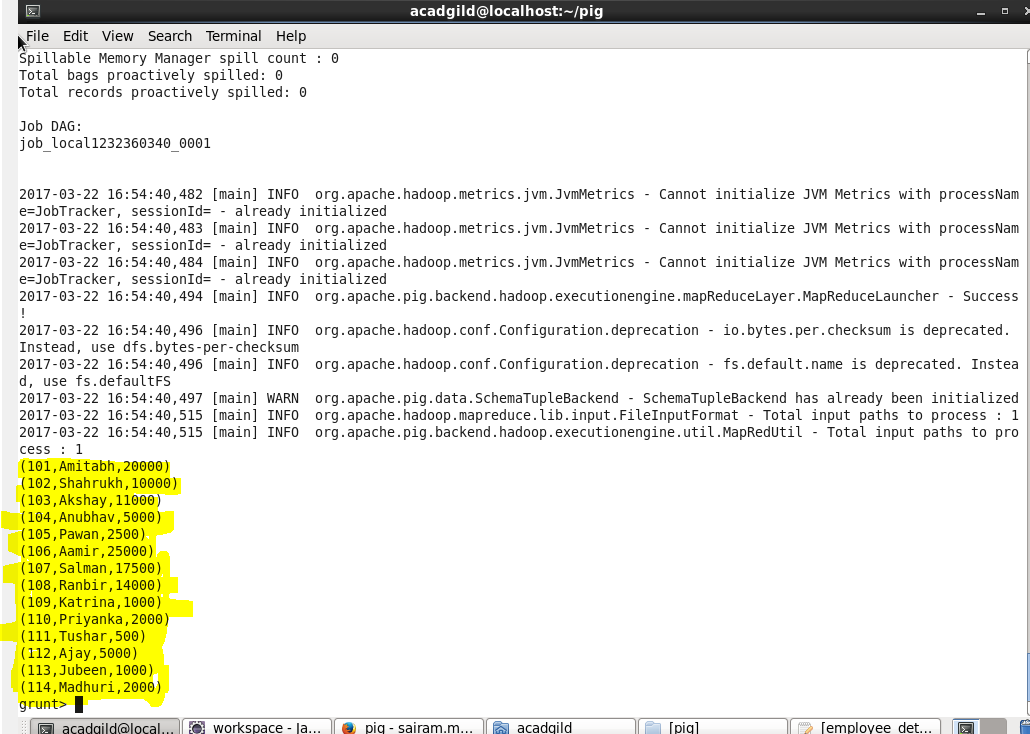
DUMP:

The ***Dump*** operator is used to run the Pig Latin statements and display the results on the screen.

**Syntax:**

***DUMP Relation\_name;***

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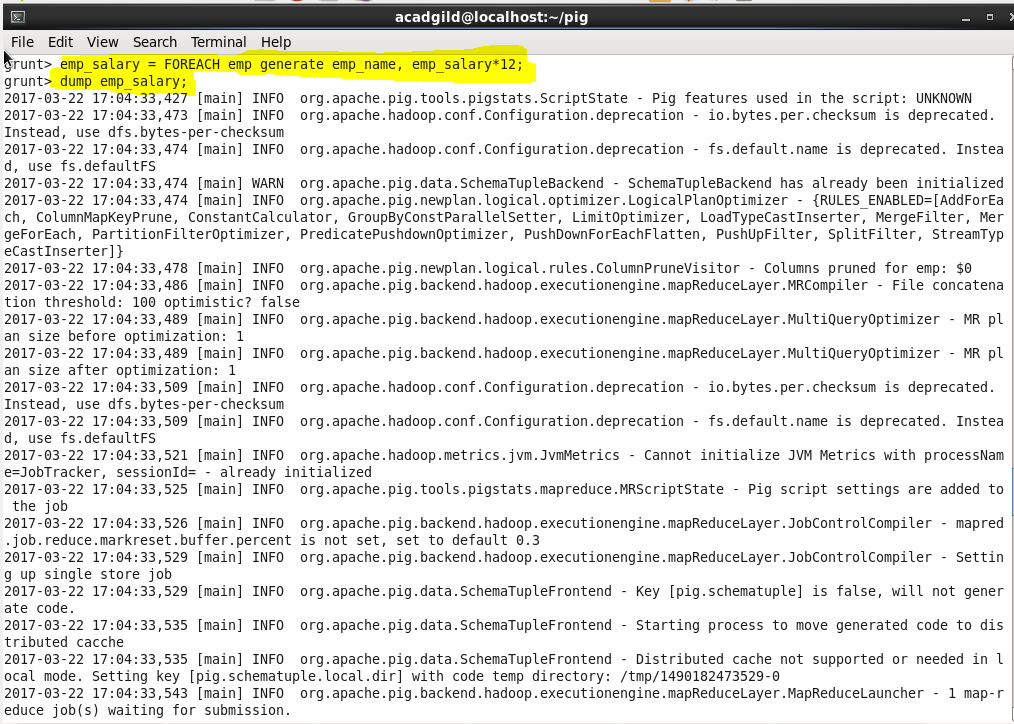
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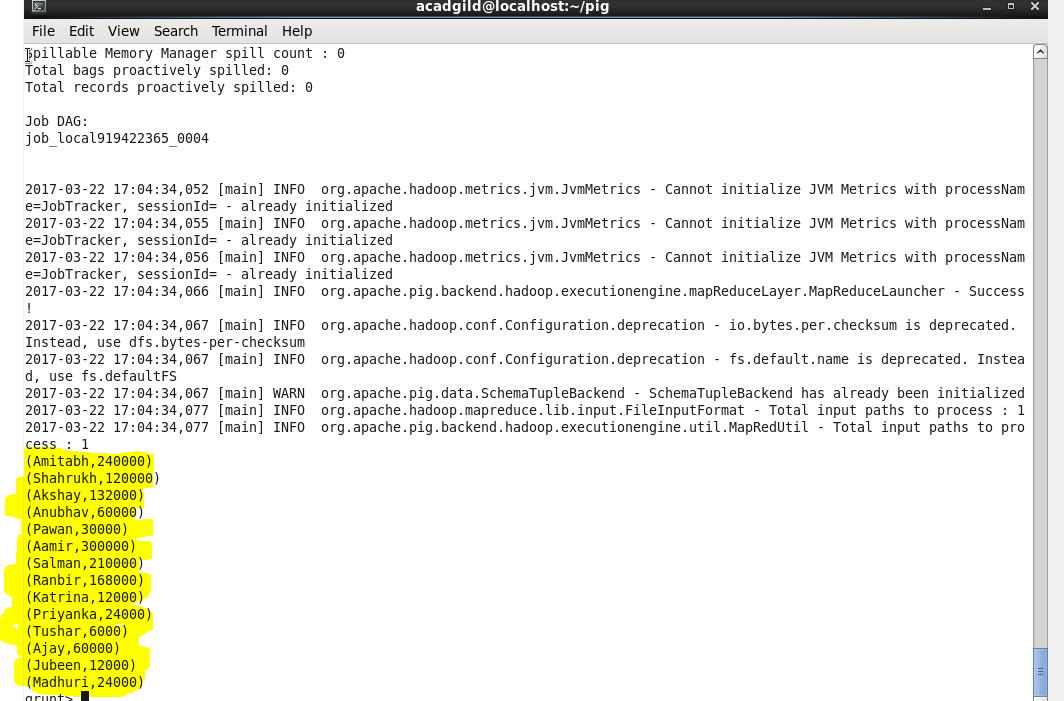
FOREACH:

The ***FOREACH*** operator is used to generate specified data transformations based on the column data.

**Syntax:**

***Relation\_name2 = FOREACH Relation\_name1 GENERATE (required data);***

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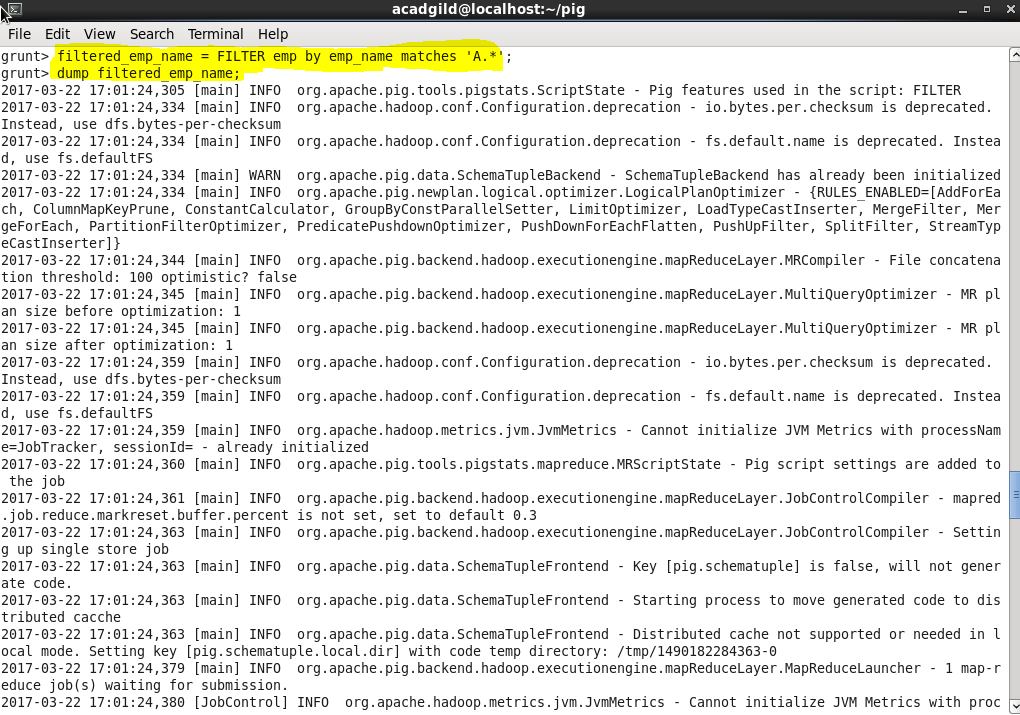
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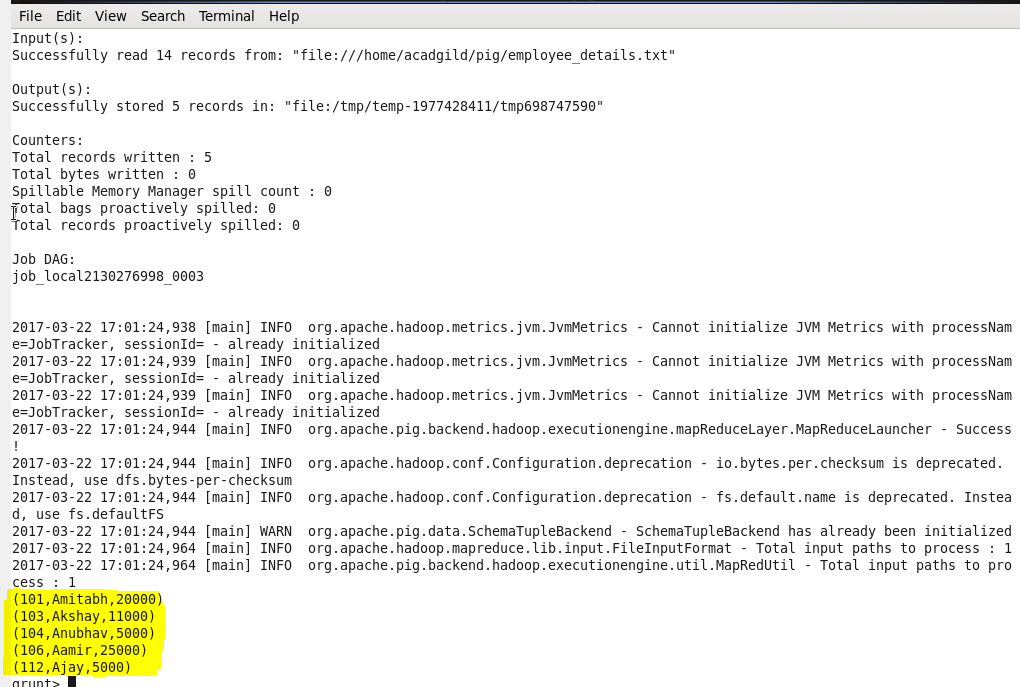
FILTER:

The ***FILTER*** operator is used to select the required tuples from a relation based on a condition.

**Syntax:**

***Relation\_name2 = FILTER Relation\_name1 BY (condition);***

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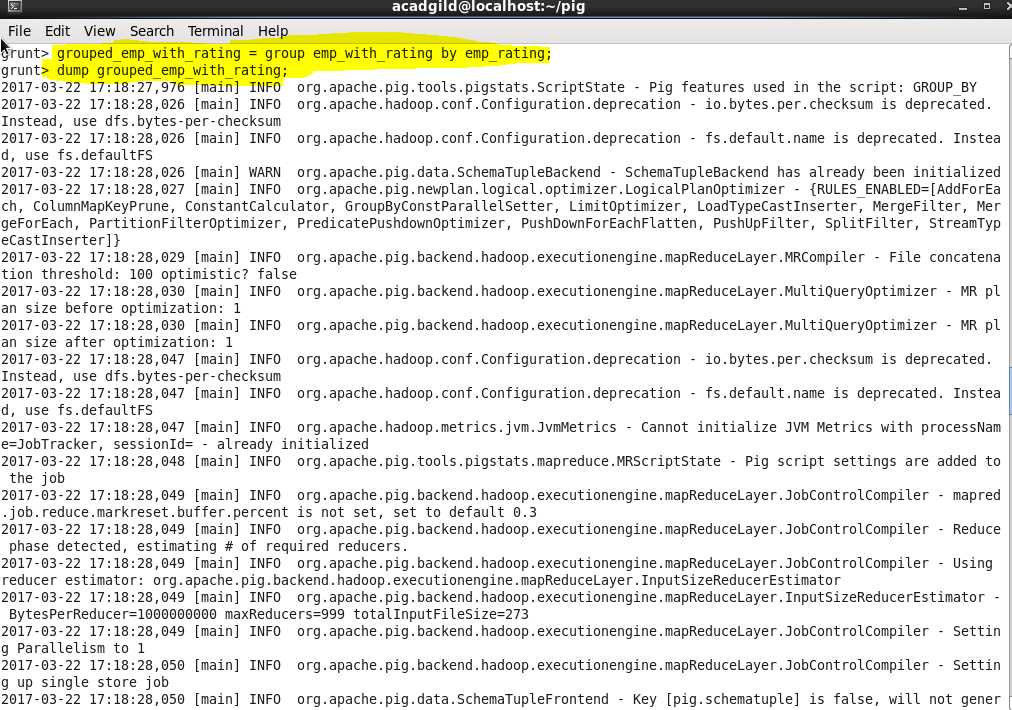
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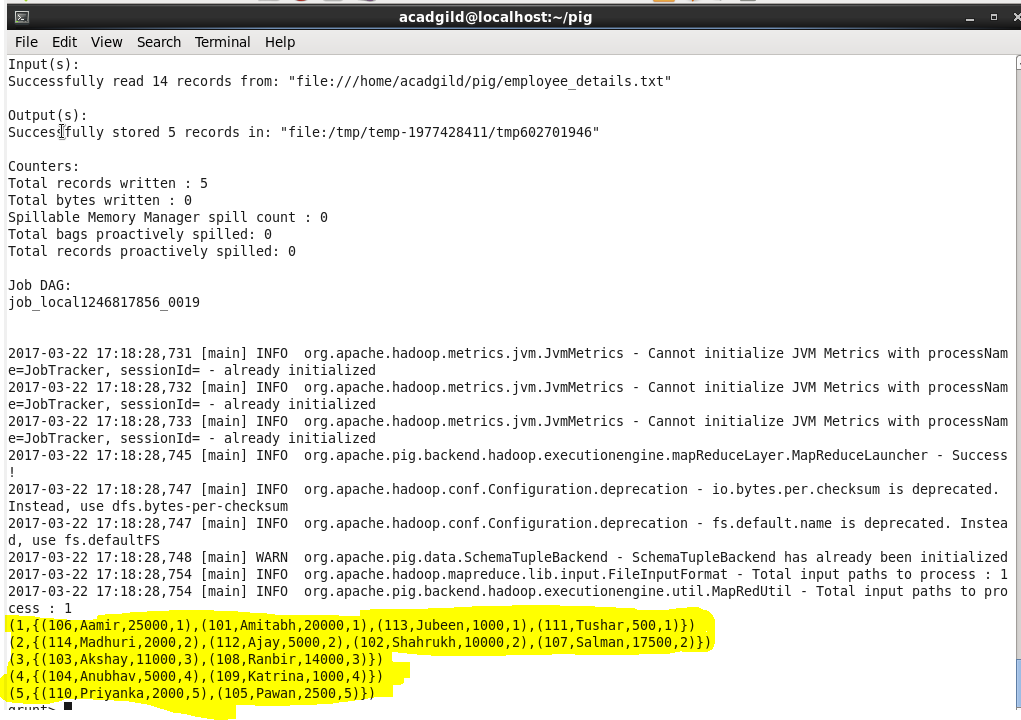
GROUP BY:

The ***GROUP*** operator is used to group the data in one or more relations. It collects the data having the same key.

**Syntax:**

***Group\_data = GROUP Relation\_name by column\_name;***

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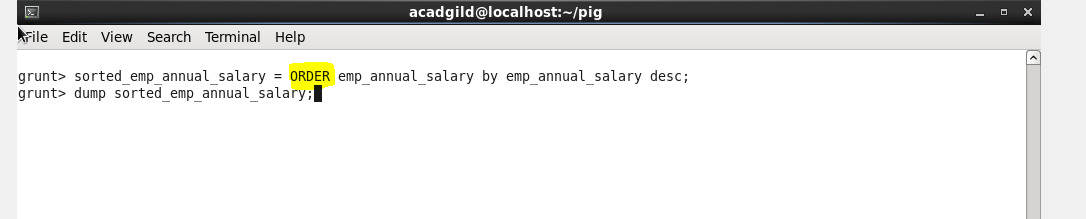
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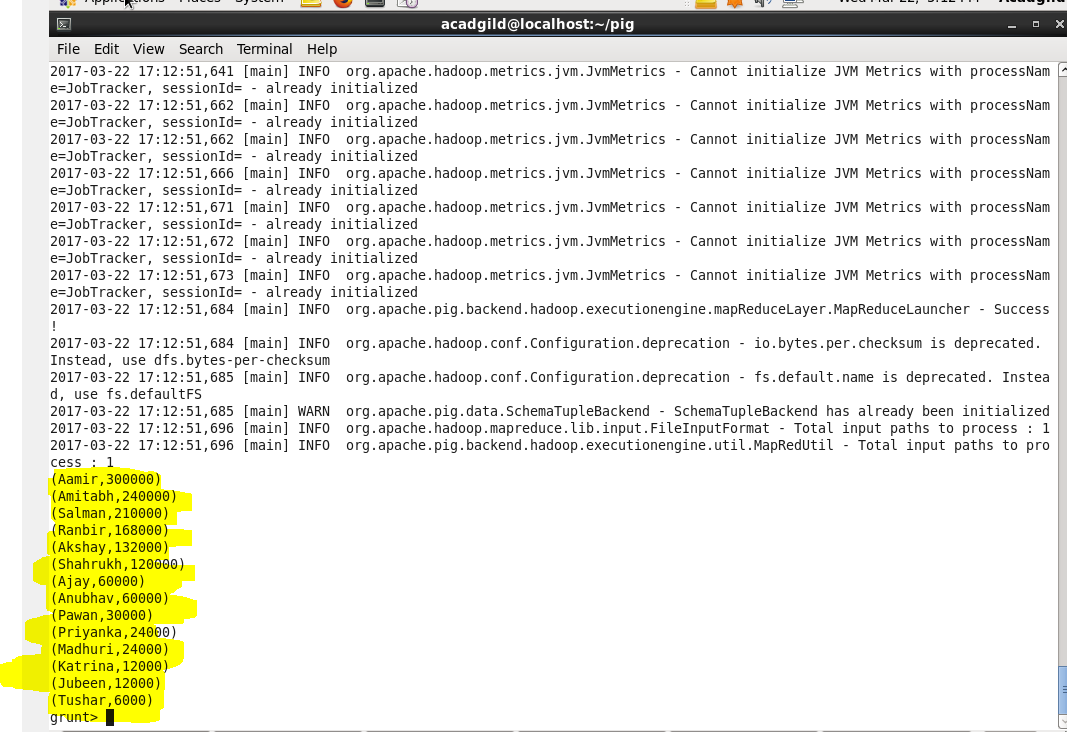
ORDER BY:

The ***ORDER BY*** operator is used to display the contents of a relation in a sorted order based on one or more fields.

**Syntax:**

***Relation\_name2 = ORDER Relation\_name1 BY (ASC/DESC);***

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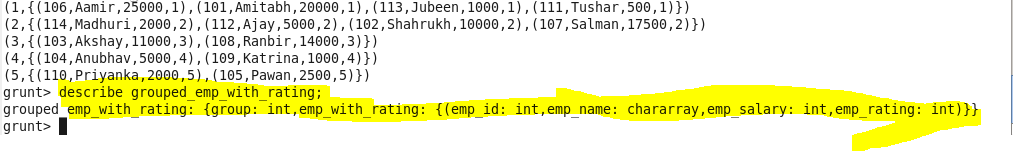
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DESCRIBE:

The ***DESCRIBE*** operator is used to view the schema of a relation.

**Syntax:**

***DESCRIBE Relation\_name;***

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