Introduction to Big Data

ECAP456

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Learning Outcomes

After this lecture, you will be able to

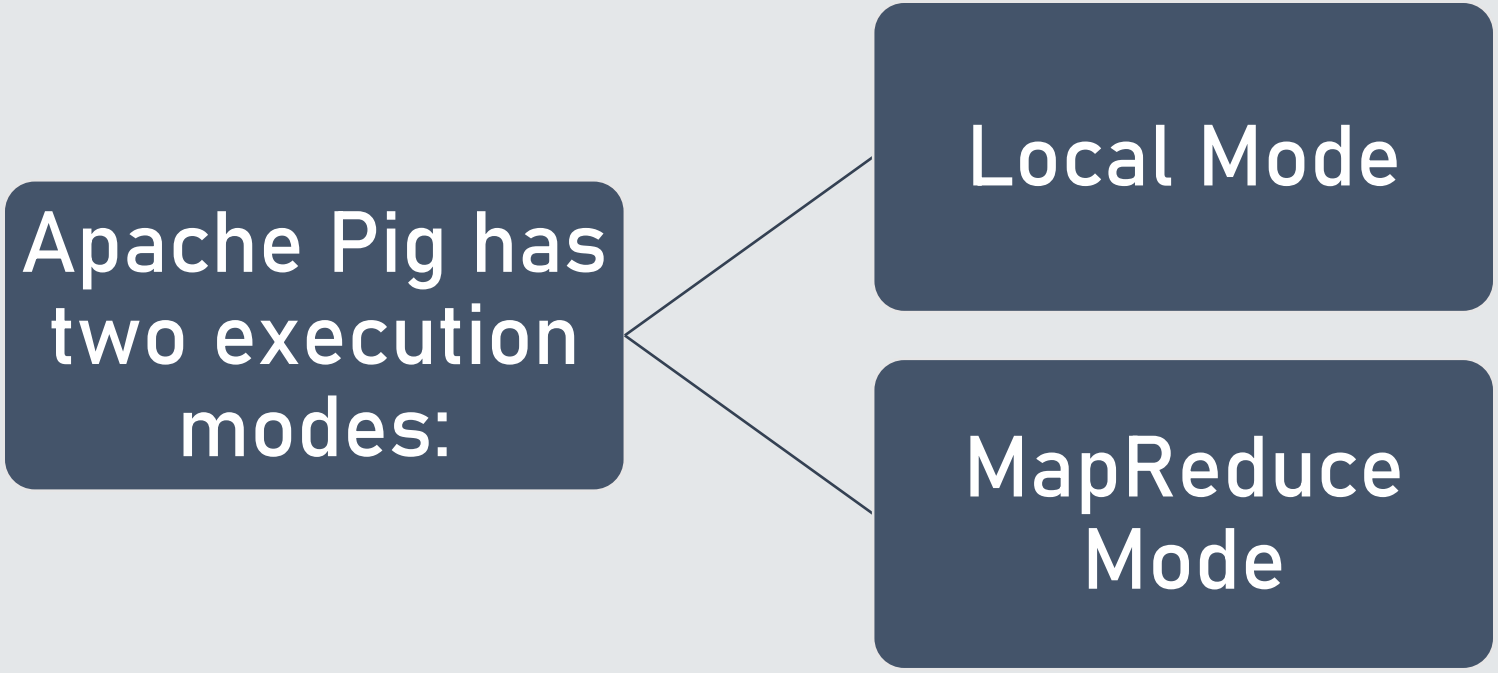
- Operators in Apache Pig

Introduction

- It is a high-level procedural language for querying large data sets using Hadoop and the Map Reduce Platform.
- It is a Java package, where the scripts can be executed from any language implementation running on the JVM.
- It simplifies the use of Hadoop by allowing SQL-like queries to a distributed dataset
- It backs many relational features like Join, Group and Aggregate.
- it does have many features common with ETL tools.

What is Apache Pig Latin?

Apache Pig Execution Modes

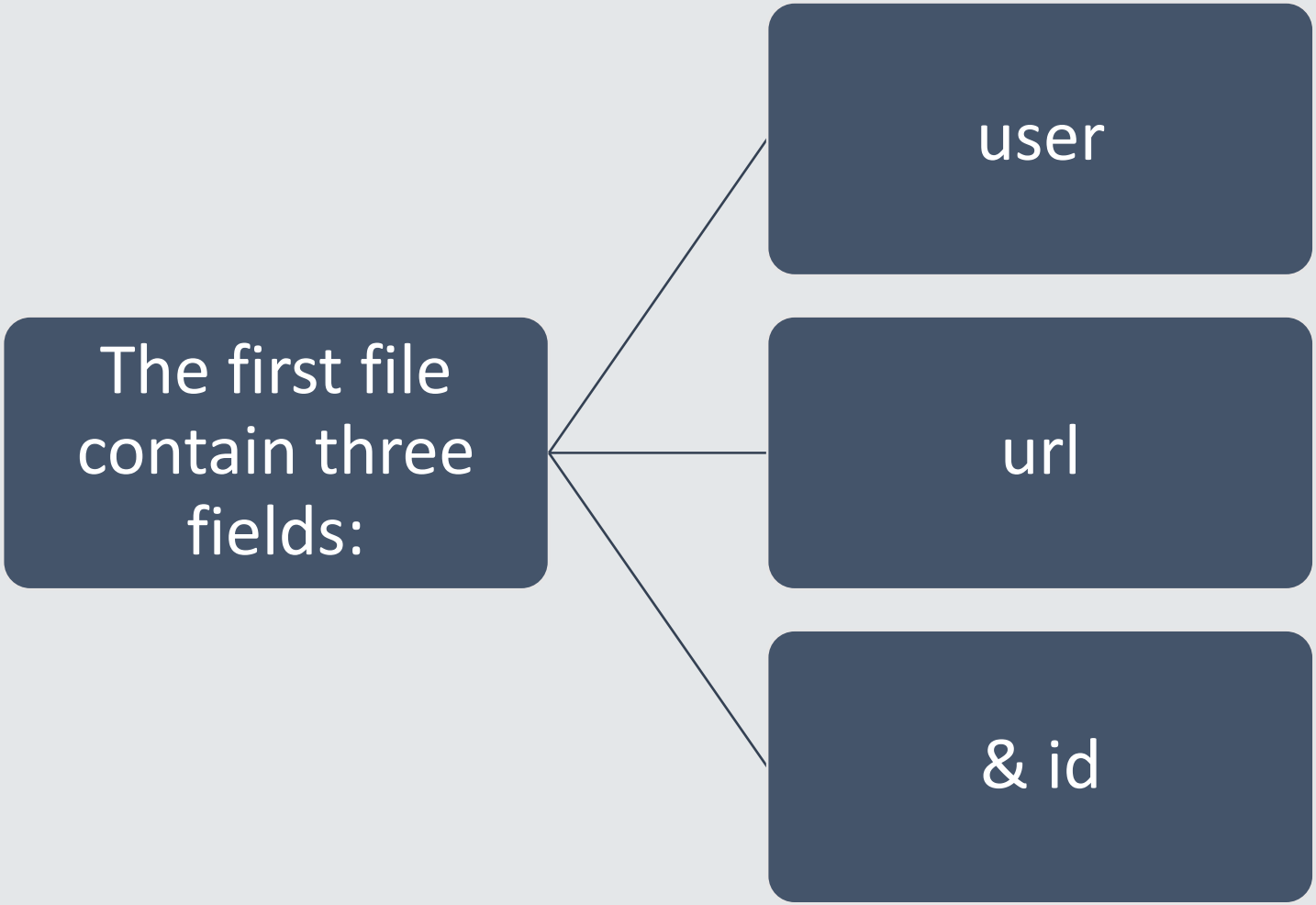


Local Mode

MapReduce Mode

Apache Pig Operators

Apache Pig Operators



Apache Pig Operators

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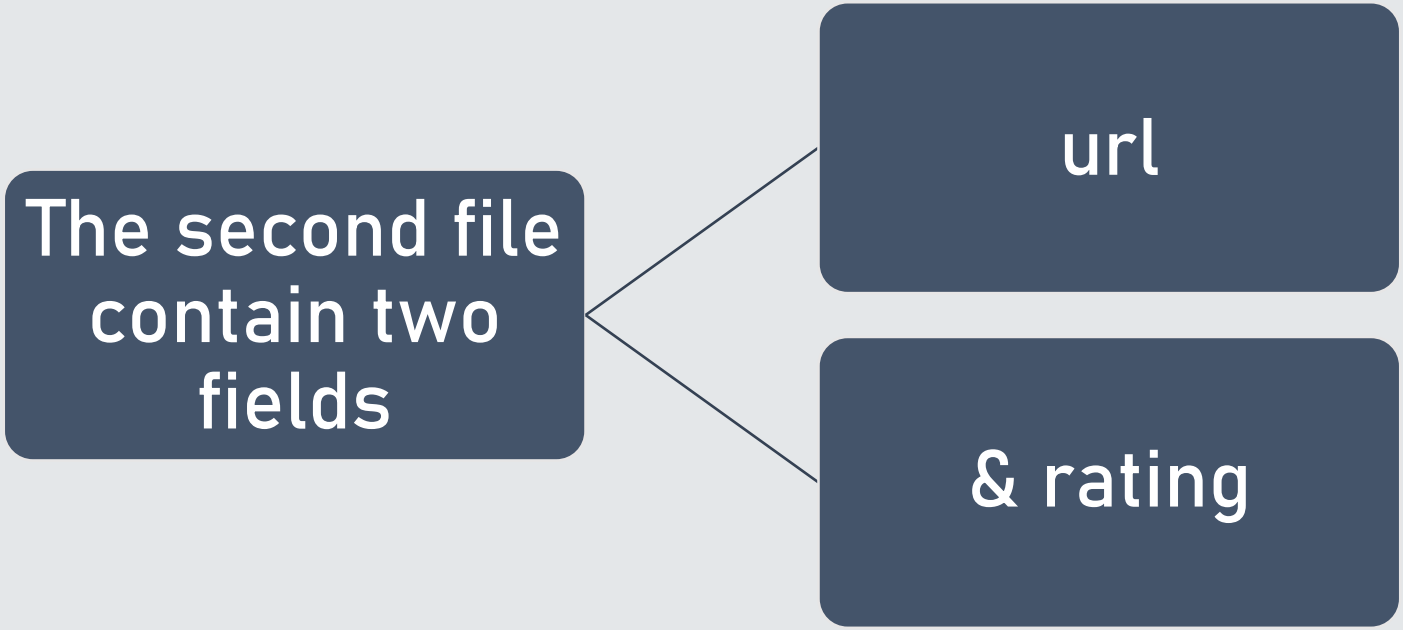
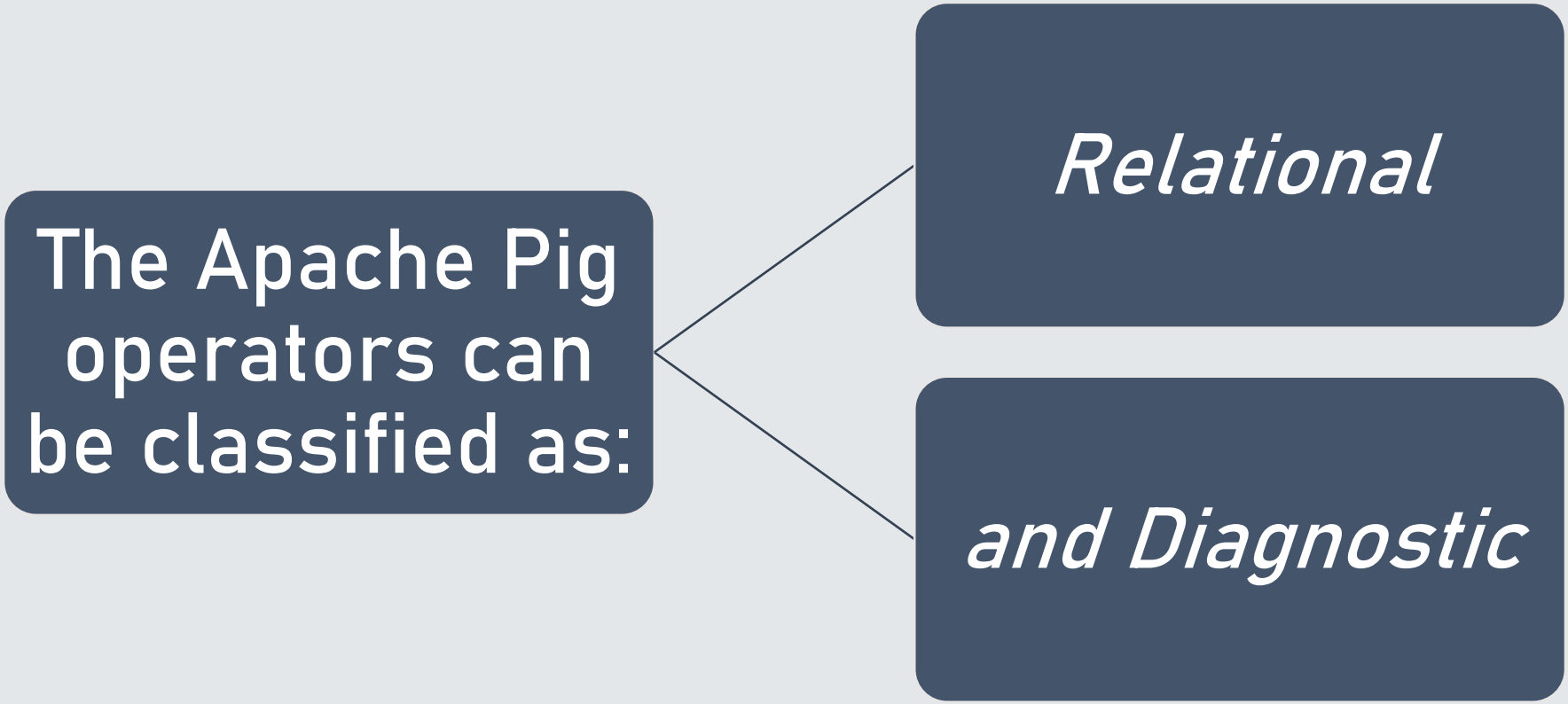


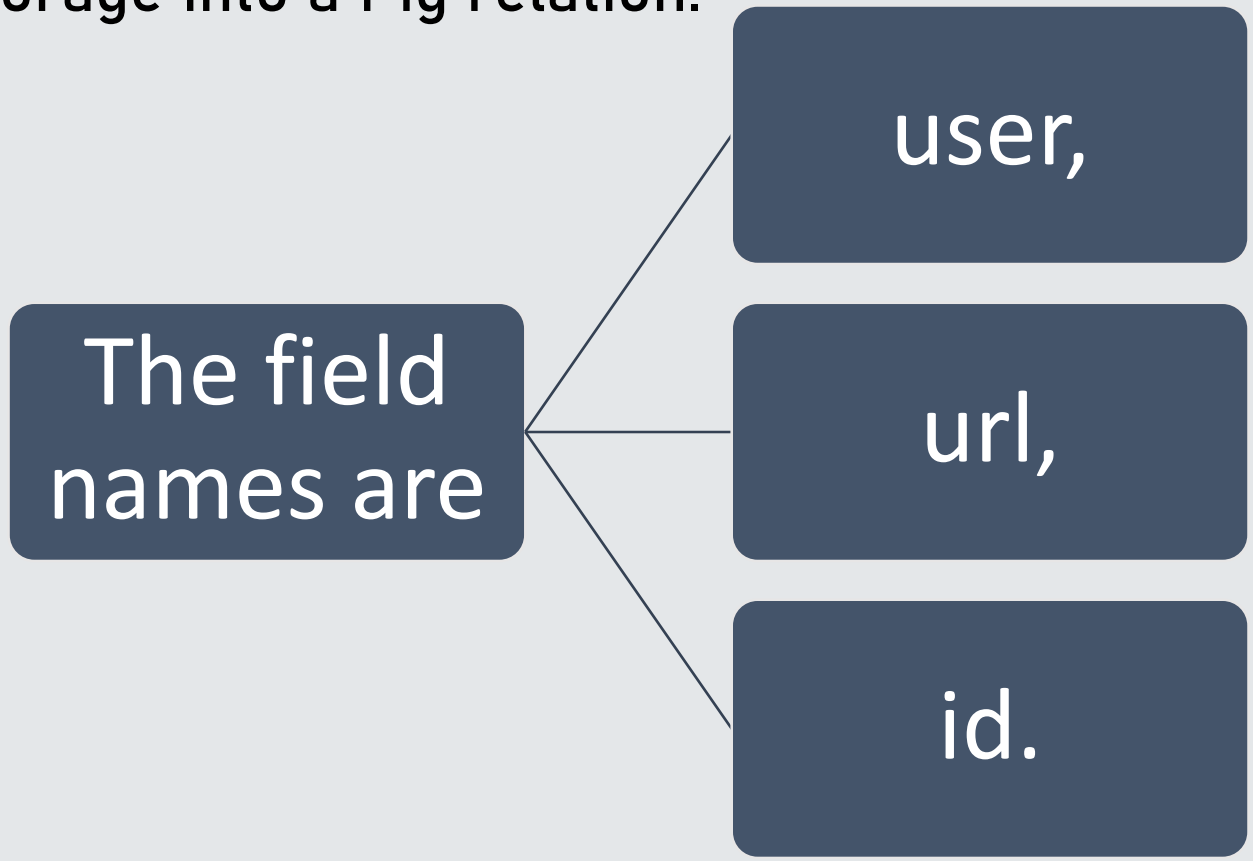
Classification of Apache Pig operators



Relational Operators:

Load Operators:

LOAD operator is used to load data from the file system or HDFS storage into a Pig relation.



Load Operators:

Foreach

Foreach

Filter

Filter

Join

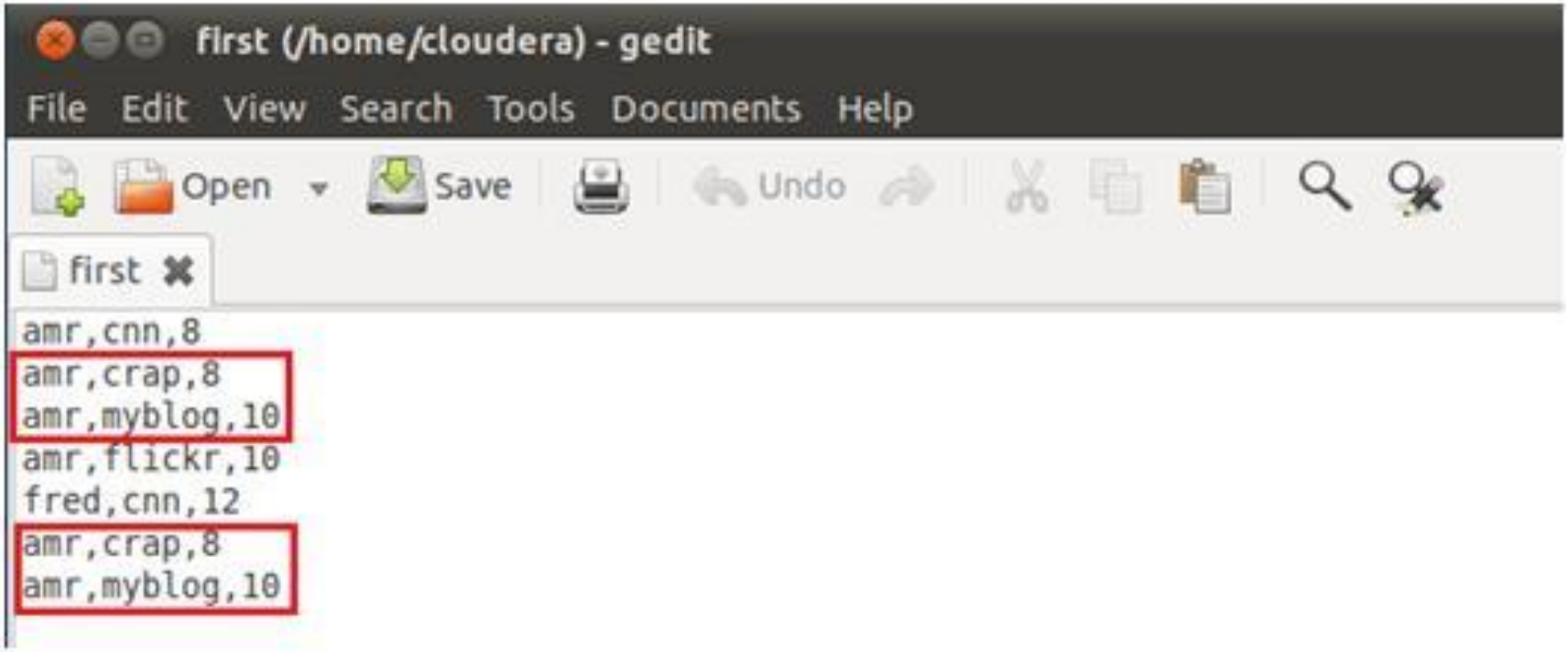
- JOIN operator is used to perform an inner, equijoin join of two or more relations based on common field values.
- The JOIN operator always performs an inner join.
- Inner joins ignore null keys, so it makes sense to filter them out before the join.

Order By

Order By

Distinct

Distinct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Store

Store


That's all for now...