# Macquarie University, School of Computing COMP6210 Big Data

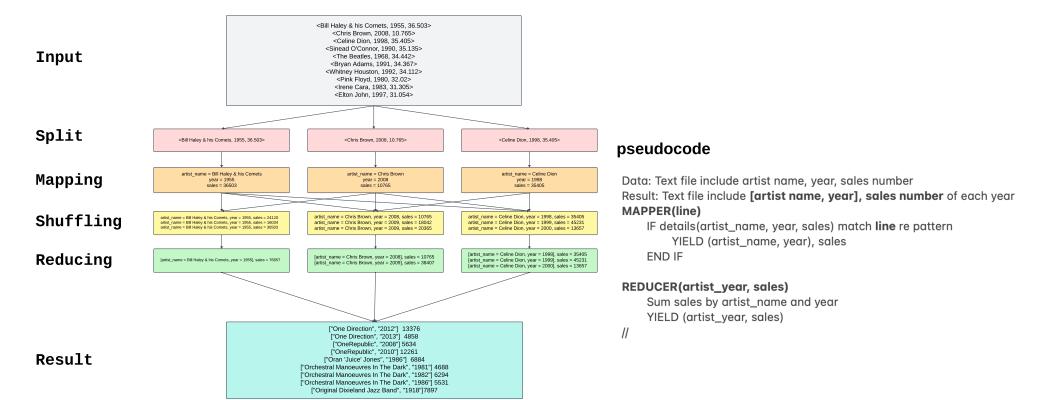
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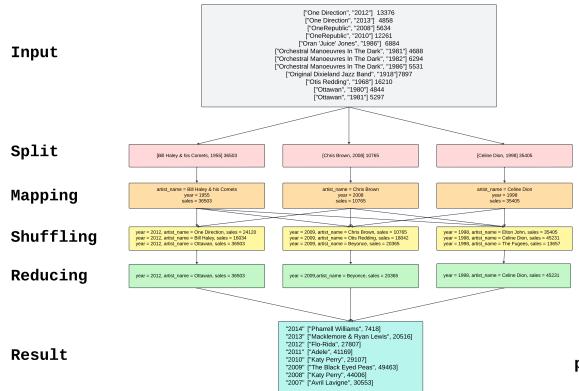
Flowchart and pseudocode documentation for MapReduce program

All of the variables and shown values are only for presentation, exact values may vary

# **Task 1.2 flowchart & pseudocode**



# Task 2.1 flow chart



### pseudocode

#### Task 2\_1

Data: Text file include artist name, year, sales number

Result: Text file include **year**, [artist name, sales number] of artist with highest sales each year MAPPER(line)

```
IF details(artist_name, year, sales) match line re pattern YIELD year, (artist_name, sales)
END IF
```

#### REDUCER(year, artist\_sales)

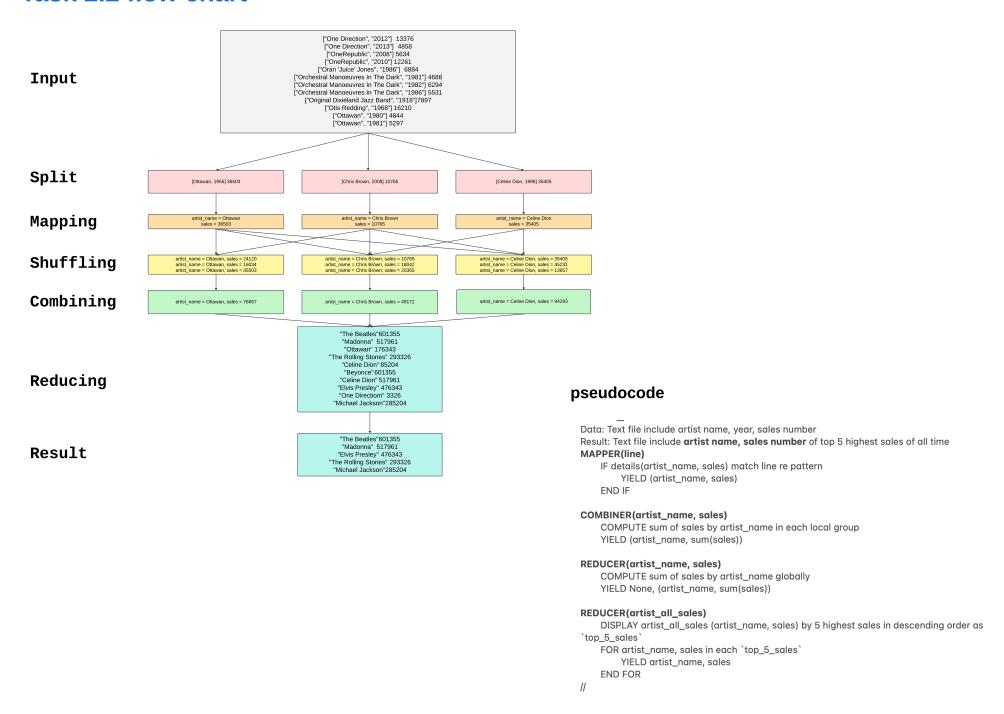
OBTAIN max sales each year YIELD None, (year, max\_sales)

#### REDUCER(year\_max\_sales)

```
DISPLAY year_max_sales (year, max_sales) by year in descending order as `sorted_year`
FOR year, max_sales in each `sorted_year`
YIELD year, max_sales
END FOR
```

//

# Task 2.2 flow chart



## Task 2.3 flow chart

