

Student Name: Liang Leran Jenny

Student UOW ID: 7063167

Solution 3

customers.txt

Customer Number	Customer Name
00001	James
00002	Harry
00003	Peter
00004	Jane

orders.txt

Order Number	Customer Number	Total Order Value
0000001	00001	34.5
0000002	00001	23.0
0000003	00002	123.0
0000004	00003	12.3

Map Phase:

I will implement one mapper for customer details and another mapper for order details.

For customer details, I will take in one tuple at a time and tokenize and fetch the customer number. The customer number will be my key of the key-value pair, making the key-value pair: [customer number, 1].

For order details, I will follow the same steps as customer details. Customer number will be the key to the key-value pair, making the key-value pair: [customer number, 1]

Reduce Phase:

In the reduce phase, I will add the count of each customer number value.

If the sum is 1, I will print the customer number as this indicates that a customer has made zero orders as shown using the sample above.

Before reduction:

[00001, 1], [00001, 1], [00001, 1], [00002, 1], [00002, 1], [00003, 1], [00003, 1], [00004, 1]

After reduction:

[00001, 3], [00002, 2], [00003, 2], [00004, 1]

Customer 00004, Jane, will be listed.