

Use case : Food Delivery System

Team Members:

1.Dhivya Lakshmi. R.M
CSE-A(2019-2023)
195001028

2.Swetha.R
CSE-B(2019-2023)
195001114

GitHub Link:

<https://github.com/swetha14r/Stream-Data-Project.git>

Generated Stream data.

Created 2 kafka brokers - 2 partitions and 2 replicas.

Kafka Sample Output:

Consumer 1:

```
swetha@swetha:/usr/local/kafka$ ./bin/kafka-console-consumer.sh --bootstrap-server localhost:9092,localhost:9093 --topic testingfooddelivery
{"price":195.1139987719765,"tip":9.755699938598825,"items":["Pizza","Fried Rice","Burger","Momo","Muffins","Aloo Paratha","Paneer Butter Masala","Brownies","Noodles"],"modeOfPayment":"Card","orderID":"4beddd6df-1dc1-4e68-98e1-f18161959274","restaurantID":"7799a350-ed79-45be-9f62-f4f2d4e48722","driverID":"83a30a42-6e66-4b67-80c8-7fd46633ac24","contactlessDelivery":false,"restLoc":{"lat":10.521409,"lon":79.498127}, "custLoc":{"lat":10.531603,"lon":79.516687}, "orderTime":{"hour":8,"minute":52,"second":32,"nano":0}, "deliveredTime":{"hour":9,"minute":30,"second":32,"nano":0}}
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  ^CProcessed a total of 35 messages
swetha@swetha:/usr/local/kafka$
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Consumer 2:

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swetha@swetha:/usr/local/kafka$ ./bin/kafka-console-consumer.sh --bootstrap-server localhost:9092,localhost:9093 --topic testingfooddelivery

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{"price":188.77713673634656,"tip":9.43885683681733,"items":["Momo","Pizza","Waffles","Muffins","Aloo Paratha","French Fries","Dosa"],"modeOfPayment":"Cash On Delivery","orderID":"5b67b07f-8349-41eb-a6dc-f300cd1af57b","restaurantID":"bd529a3d-166f-4114-a452-f8d5a40edb1","driverID":"5fd7f8c2-620b-4433-ae02-d5866aa6c76f9","contactlessDelivery":false,"restLoc":{"lat":19.781416,"lon":79.024599},"custLoc":{"lat":19.735664,"lon":79.044639}},{"orderTime":{"hour":4,"minute":47,"second":53,"nano":0}},{deliveredTime":{"hour":5,"minute":25,"second":53,"nano":0}} {"price":65.15651070437889,"tip":3.2578255352189442,"items":["Burger","Fried Rice","Waffles","Muffins","Naan","Pasta","Brownies"],"modeOfPayment":"Card","orderID":"7df8d616-9ef4-4453-a309-04e2ed3554b8","restaurantID":"745de373-db5a-4fca-b8dd-8003b4b15d25","driverID":"865ece91-721f-40fe-ab71-6a9281880612","contactlessDelivery":true,"restLoc":{"lat":14.444359,"lon":76.146116}},{custLoc":{"lat":14.469937,"lon":76.106633}},{orderTime":{"hour":4,"minute":50,"second":48,"nano":0}},{deliveredTime":{"hour":5,"minute":28,"second":48,"nano":0}} {"price":49.971450999073156,"tip":2.498572549953658,"items":["Burger","Pizza","Naan","Aloo Paratha","French Fries","Dosa","Pasta","Paneer Butter Masala","Noodles"],"modeOfPayment":"Cash On Delivery","orderID":"1271696-37e0-4d79-879e-bcbaff4a9661","restaurantID":"d530ec8b-8df2-485e-8a2e-7163796ccb0e","driverID":"968925f3-04d6-4d84-8b77-f7bee64414ed","contactlessDelivery":false,"restLoc":{"lat":15.521497,"lon":77.940108}},{custLoc":{"lat":15.558891,"lon":77.917337}},{orderTime":{"hour":4,"minute":16,"second":51,"nano":0}},{deliveredTime":{"hour":4,"minute":54,"second":51,"nano":0}} {"price":65.68951270349024,"tip":3.2844756351745117,"items":["Pizza","Fried Rice","Muffins","Naan","Dosa","Pasta","Idli","Brownies"],"modeOfPayment":"Card","orderID":"debc7145-401e-4b34-8681-41b7769aa7d0","restaurantID":"79f45653-56ed-44f8-99b2-83ea9412d998","driverID":"ab7e0401-0e41-469ab02f-bf22536b627c","contactlessDelivery":false,"restLoc":{"lat":16.849807,"lon":77.1747666}},{custLoc":{"lat":16.881264,"lon":77.181973}},{orderTime":{"hour":5,"minute":56,"second":26,"nano":0}},{deliveredTime":{"hour":6,"minute":34,"second":26,"nano":0}} {"price":204.57894800912462,"tip":12.22894740045623,"items":["Pizza","Burger","Aloo Paratha","French Fries","Idli","Paneer Butter Masala","Noodles"],"modeOfPayment":"Cash On Delivery","orderID":"8cc08622-68d8-4668-b779-ccff2477b8d0","restaurantID":"4cc37f1f-9367-449b-8700-9c51413a4f78","driverID":"33764f6f-b12c-4c6a-860f-248d41781769","contactlessDelivery":false,"restLoc":{"lat":13.244903,"lon":79.1467}},{custLoc":{"lat":13.239224,"lon":79.129571}},{orderTime":{"hour":0,"minute":51,"second":51,"nano":0}},{deliveredTime":{"hour":1,"minute":32,"second":51,"nano":0}} {"price":137.13065705955387,"tip":6.856532852977693,"items":["Fried Rice","Muffins","Naan","Pasta","Taco","Noodles"],"modeOfPayment":"Cash On Delivery","orderID":"7dc358e6-1ec4-47ec-b2db-9a1cce9a67b0","restaurantID":"507b15f0-3fb4-4549-a070-c5a190fb4f7d","driverID":"b049896a-1c18-4134-8e79-6fdcc1ef6b47","contactlessDelivery":true,"restLoc":{"lat":13.476905,"lon":78.170927}},{custLoc":{"lat":13.494402,"lon":78.147364}},{orderTime":{"hour":9,"minute":27,"second":22,"nano":0}},{deliveredTime":{"hour":10,"minute":5,"second":22,"nano":0}} [{"price":136.3660678826704,"tip":6.81830339413352,"items":["Momo","Pizza","Burger","Waffles","Muffins","French Fries","Dosa","Pasta","Paneer Butter Masala","Noodles"],"modeOfPayment":"Cash On Delivery","orderID":"bc38f6ee-0c11-4dff-bf0f-2b2eecd9bfe6","restaurantID":"8376c530-e8de-4bc2-a2a6-cec4a8378595","driverID":"b138314a-5f5a-49eb-9217-b0a3fb24a6ae","contactlessDelivery":true,"restLoc":{"lat":10.559858,"lon":78.164271}},{custLoc":{"lat":10.527599,"lon":78.139299}},{orderTime":{"hour":3,"minute":2,"second":2,"nano":0}},{deliveredTime":{"hour":3,"minute":40,"second":2,"nano":0}} {"price":219.84364232665007,"tip":10.992182116332504,"items":["Momo","Burger","Pizza","Muffins","French Fries","Dosa","Pasta","Brownies","Noodles"],"modeOfPayment":"Card","orderID":"9a91084-8f6f-4e85-ba51-668fa8c0ba3","restaurantID":"1e1600d9b-816e-4472-b08d-20e7d98900dd","driverID":"0de566c8-970c-45d1-ad8d-c4b07365f943","contactlessDelivery":false,"restLoc":{"lat":17.219904,"lon":76.425842}},{custLoc":{"lat":17.21389,"lon":76.463982}},{orderTime":{"hour":4,"minute":42,"second":14,"nano":0}},{deliveredTime":{"hour":5,"minute":20,"second":14,"nano":0}} {"price":157.9631946354068,"tip":7.89815973177034,"items":["Pizza","Momo","Fried Rice","Muffins","Naan","Aloo Paratha","French Fries","Pasta","Noodles","Brownies"],"modeOfPayment":"Card","orderID":"3ec9da72-3e63-462b-9f33-bd5af495b38f","restaurantID":"0e4cb65f-6a67-45e3-82c1-8d43ee7d9f20","driverID":"36e3b66-4a1b-41d9-8800-81499b662525","contactlessDelivery":true,"restLoc":{"lat":16.237768,"lon":76.272012}},{custLoc":{"lat":16.216466,"lon":76.22813}},{orderTime":{"hour":7,"minute":35,"second":30,"nano":0}},{deliveredTime":{"hour":8,"minute":13,"second":30,"nano":0}} {"price":166.83130761804867,"tip":8.341565380902432,"items":["Momo","Pizza","Naan","French Fries","Pasta","Paneer Butter Masala","Taco"],"modeOfPayment":"Card","orderID":"8740f8b0-69c4-4983-8d8e-1e186c2148b5","restaurantID":"22875fa5-9be2-4a44-8842-fd229f059503","driverID":"52a44e04-5088-4dd3-976c-30ceb442386c","contactlessDelivery":false,"restLoc":{"lat":15.548576,"lon":78.587461}},{custLoc":{"lat":15.512841,"lon":78.576255}},{orderTime":{"hour":1,"minute":21,"second":12,"nano":0}},{deliveredTime":{"hour":1,"minute":59,"second":12,"nano":0}} {"price":201.73551370191507,"tip":10.86775685095754,"items":["Burger","Pizza","Momo","Waffles","Aloo Paratha","Paneer Butter Masala","Brownies","Noodles"],"modeOfPayment":"Cash On Delivery","orderID":"17af158e-3b64-4fc8-b7df-6477a9f6bd9e","restaurantID":"4a21866d-2d25-4466-a78a-58ab8d8d72a","driverID":"ce12df07-de02-4463-8bf3-776b0c415c7","contactlessDelivery":true,"restLoc":{"lat":10.800783,"lon":77.876159}},{custLoc":{"lat":10.789733,"lon":77.8262}},{orderTime":{"hour":15,"minute":11,"second":0}},{deliveredTime":{"hour":15,"minute":49,"second":11,"nano":0}} {"price":237.11782480258128,"tip":11.855891240129065,"items":["Pizza","Waffles","Dosa","Idli","Paneer Butter Masala","Taco","Noodles"],"modeOfPayment":"Card","orderID":"0f0aab01-5b9a-426d-b331-996bfee70c6","restaurantID":"81623ca8-54a2-4e4a-a400-7573735cc30","driverID":"3d578aaa-eb5e-4600-92ac-06413a4f77c1","contactlessDelivery":false,"restLoc":{"lat":13.3156,"lon":79.67842}},{custLoc":{"lat":13.272027,"lon":79.660805}},{orderTime":{"hour":5,"minute":54,"second":47,"nano":0}},{deliveredTime":{"hour":6,"minute":32,"second":47,"nano":0}} [{"price":210.290045785891,"tip":10.514502289294551,"items":["Burger","Momo","Muffins","Naan","Aloo Paratha","French Fries","Pasta","Taco"],"modeOfPayment":"Card","orderID":"6b6bc812-3bd2-4efa-99ef-918c2e694588","restaurantID":"c3d0c1f6-3e50-49a3-98bd-fb76a004be4d","driverID":"a6386cce-f256-441d-aaef-bb59c3b6643b","contactlessDelivery":true,"restLoc":{"lat":17.309999,"lon":77.626829}},{custLoc":{"lat":17.278966,"lon":77.644141}},{orderTime":{"hour":4,"minute":1,"second":42,"nano":0}},{deliveredTime":{"hour":4,"minute":39,"second":42,"nano":0}} {"price":248.9404538840222,"tip":12.447022691920111,"items":["Burger","Naan","Aloo Paratha","French Fries","Pasta","Taco","Noodles","Brownies"],"modeOfPayment":"Cash On Delivery","orderID":"ac1a4d3c-64ad-4510-9260-ca0e091a392e","restaurantID":"a704a8d-774d-4885-b6d7-49c85a035aff","driverID":"f1e45a15-b597-45fc-b0d9-106929c6199","contactlessDelivery":false,"restLoc":{"lat":17.151144,"lon":76.78607}},{custLoc":{"lat":17.123353,"lon":76.7934}},{orderTime":{"hour":19,"minute":11,"second":0}},{deliveredTime":{"hour":20,"minute":29,"second":0,"nano":0}} {"price":69.73014226225223,"tip":3.4865071131126113,"items":["Burger","Pizza","Fried Rice","Aloo Paratha","Pasta","Idli","Paneer Butter Masala","Taco","Brownies"],"modeOfPayment":"Card","orderID":"a266b0f6-41d2-4572-874b-9c2f1b93715","restaurantID":"971d10ff-dfa2-46dc-b95a-cdb1a49a3999","driverID":"a22b3f53-9ff0-4850-a709-525fd042bb","contactlessDelivery":false,"restLoc":{"lat":10.324161,"lon":79.173617}},{custLoc":{"lat":10.343622,"lon":79.1885}},{orderTime":{"hour":0,"minute":51,"second":32,"nano":0}},{deliveredTime":{"hour":1,"minute":29,"second":32,"nano":0}} ^C Processed a total of 40 messages
swetha@swetha:/usr/local/kafka$
```

Sample console output:

```

Written 10 to Kafka.
Written 14 to Kafka.
Written 8 to Kafka.
Written 3 to Kafka.
Written 2 to Kafka.
Written 9 to Kafka.
Written 12 to Kafka.
Written 4 to Kafka.
Written 6 to Kafka.
Written 0 to Kafka.
Written 6 to Kafka.
Written 4 to Kafka.
```

spark-shell Sample Outputs:

```
scala> var deliveryJsonFile = sc.textFile("eclipse-workspace/FoodDeliverySystem_1/src/com/delivery/food_info.json")
deliveryJsonFile: org.apache.spark.rdd.RDD[String] = eclipse-workspace/FoodDeliverySystem_1/src/com/delivery/food_info.j
son MapPartitionsRDD[13] at textFile at <console>:24

scala> var mode = deliveryJsonFile.filter(_.contains("Card"))
mode: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[14] at filter at <console>:25

scala> mode.count
res5: Long = 459

scala> deliveryJsonFile.count
res6: Long = 895

scala> var price_60 = deliveryJsonFile.filter(_.contains("\"price\":60"))
price_60: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[15] at filter at <console>:25

scala> price_60.count
res7: Long = 4

scala> var price_60 = deliveryJsonFile.filter(_.contains("\"price\":60")).saveAsTextFile("price_60")
price_60: Unit = ()

scala> var mode = deliveryJsonFile.filter(_.contains("Card")).saveAsTextFile("card_pay")
mode: Unit = ()
```

price_60 and card_pay are attached in github

```
scala> var deliveryinfoDF = spark.read.json("eclipse-workspace/FoodDeliverySystem_1/src/com/delivery/food_info.json")
deliveryinfoDF: org.apache.spark.sql.DataFrame = [contactlessDelivery: boolean, custLoc: struct<lat: double, lon: double
> ... 10 more fields]
```

food info.json is attached in github

SQL commands:

```
scala> deliveryinfoDF.printSchema
root
|-- contactlessDelivery: boolean (nullable = true)
|-- custLoc: struct (nullable = true)
|   |-- lat: double (nullable = true)
|   |-- lon: double (nullable = true)
|-- deliveredTime: struct (nullable = true)
|   |-- hour: long (nullable = true)
|   |-- minute: long (nullable = true)
|   |-- nano: long (nullable = true)
|   |-- second: long (nullable = true)
|-- driverID: string (nullable = true)
|-- items: array (nullable = true)
|   |-- element: string (containsNull = true)
|-- modeOfPayment: string (nullable = true)
|-- orderID: string (nullable = true)
|-- orderTime: struct (nullable = true)
|   |-- hour: long (nullable = true)
|   |-- minute: long (nullable = true)
|   |-- nano: long (nullable = true)
|   |-- second: long (nullable = true)
|-- price: double (nullable = true)
|-- restLoc: struct (nullable = true)
|   |-- lat: double (nullable = true)
|   |-- lon: double (nullable = true)
|-- restaurantID: string (nullable = true)
|-- tip: double (nullable = true)
```

```
scala> deliveryinfoDF.show(5)
+-----+-----+-----+-----+-----+-----+-----+-----+
|contactlessDelivery|      custLoc| deliveredTime|      driverID|      items| modeOfPayment|      orderID|      o
rderTime|      price|      restLoc|      restaurantID|      tip|
+-----+-----+-----+-----+-----+-----+-----+-----+
|     false|[14.237098, 76.96...]| {4, 38, 0, 24}|[0db74c9d-26e7-49c...|[Mono, Burger, Wa...| Card|a0deb0c8-d24c-445...| {4, 0
, 0, 24}|204.41959752673836|[14.254018, 76.98...|.6b3a2282-e601-44f...|10.220979876336918|
|     false|[10.569128, 78.45...| {10, 57, 0, 40}|5da2792b-703a-498...|[Mono, Pizza, Bur...| Card|a6e7ce97-0ac3-441...| {10, 19
, 0, 40}|171.22648199128014|[10.524611, 78.41...|[2c84ada0-eb58-45d...| 8.561324099564008|
|     true|[13.914434, 79.20...| {7, 5, 0, 35}|f7e6e8d3-78d1-418...|[Fried Rice, Mono...|Cash On Delivery|571f38ee-6bfc-44b...| {6, 27
, 0, 35}|240.49486976673657|[13.873138, 79.24...|[62c27791-2baf-4d7...|[12.024743488336828|
|     false|[15.612804, 78.45...| {10, 15, 0, 20}|b8991bd4-5cb1-45f...|[Fried Rice, Mono...|Cash On Delivery|2d0e9575-d5be-48f...| {9, 37
, 0, 20}| 50.22375279924057|[15.642922, 78.49...|[bcbd06f6-1598-43e...|2.5111876399620288|
|     true|[12.872492, 76.68...| {3, 37, 0, 9}|ea68f7bc-2b7a-45c...|[Burger, Waffles,...| Card|93b0395c-8ea0-409...| {2, 5
9, 0, 9}| 36.36323558668356|[12.858232, 76.63...|[2156be0c-8c25-458...| 1.818161779334178|
+-----+-----+-----+-----+-----+-----+-----+-----+
only showing top 5 rows
```

```

scala> deliveryinfoDF.createOrReplaceTempView("Food")

scala> spark.sql("show tables").show
+-----+
|database|tableName|isTemporary|
+-----+-----+-----+
|          |food|      true|
+-----+-----+-----+

```

```

scala> spark.sql("select * from Food where price >=100").show(5)
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|contactlessDelivery| custLoc| deliveredTime| driverID| items| modeOfPayment| orderID| o
rderTime| price| restLoc| restaurantID| tip| |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| false|[14.237098, 76.96...| {4, 38, 0, 24}|0db74c9d-26e7-49c...|[Momo, Burger, Wa...| Card|a0deb0c8-d24c-445...| {4, 0
, 24}|204.41959752673836|[14.254018, 76.98...|[6b3a2282-e601-44f...|[10.220979876336918|
| false|[10.569128, 78.45...| {10, 57, 0, 40}|5da2792b-703a-498...|[Momo, Pizza, Bur...| Card|a6e7ce97-0ac3-441...| {10, 19
, 40}|171.22648199128014|[10.524611, 78.41...|[2c84ada0-eb58-45d...| 8.561324099564008|
| true|[13.914443, 79.20...| {7, 5, 0, 35}|f7e6e8d3-78d1-418...|[Fried Rice, Momo...|Cash On Delivery|571f38ee-6bfc-44b...| {6, 27
, 35}|240.49486976673657|[13.873138, 79.24...|[62c27791-2ba...|[12.024743488336828|
| false|[14.80391, 77.379...| {17, 35, 0, 26}|ec96e170-3134-40d...|[Waffles, Naan, A...| Card|83c64349-3f62-460...| {16, 57
, 26}|198.63377407600956|[14.806176, 77.39...|[570f8454-14db-444...| 9.931688703800479|
| true|[10.382519, 78.36...| {17, 52, 0, 1}|e57ff5682-8a09-464...|[Burger, Momo, Mu...| Card|2572d271-b6d9-462...| {17, 1
4, 0, 1}|212.40130573132703|[10.416526, 78.39...|[531cbe4d-fc80-4e4...|[10.620065286566351|
+-----+-----+-----+-----+-----+-----+-----+-----+
only showing top 5 rows

```

```

scala> spark.sql("select sum(price) as TotalSales from Food").show
+-----+
|       TotalSales|
+-----+
|121573.21283670762|
+-----+

```

```

scala> spark.sql("select modeOfPayment,sum(price) as TotalSales from Food group by modeOfPayment").show
+-----+-----+
| modeOfPayment| TotalSales|
+-----+-----+
|Cash On Delivery| 57567.13112757404|
| Card|64006.081709133585|
+-----+-----+

```

```

scala> spark.sql("select * from Food where items[0]='Pizza'").show(10)
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|contactlessDelivery| custLoc| deliveredTime| driverID| items| modeOfPayment| orderID| o
rderTime| price| restLoc| restaurantID| tip| |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| true|[18.87276, 76.448...|[26, 24, 0, 17]|27a9346e-2b3e-475...|[Pizza, Fried Ric...| Card|140eef2c-26fb-4d3...| {19, 46, 0, 17}| 97.720
23271759687|[18.920369, 76.42...|[c468ff8f-d8dc-424...| 4.88601603587984|
| false|[16.007414, 78.12...| {5, 57, 0, 26}|c2c96d2f-009b-410...|[Pizza, Burger, W...| Card|cba145ab-3ife-473...| {5, 19, 0, 26}| 188.53
93800956212|[15.98259, 78.2d10c8-36f...|[4.9269690478166|
| true|[15.649346, 77.78...| {8, 20, 0, 10}|2e3e69e9-2f19-44b...|[Pizza, Fried Ric...| Card|85cf23ec-0d3b-487...| {23, 42, 0, 10}| 204.55
59378213744|[15.674257, 77.76...|[597b7834c-c8fc-416...|[10.22779689106872|
| false|[14.207942, 79.08...|[22, 23, 0, 1]|1b94c970-3286-4e4...|[Pizza, Muffins, ...| Card|95b81e0b-a944-482...| {21, 45, 0, 1}| 63.149
78078092044|[14.226913, 79.12...|[5714c95b-d5f7-475...|[3.157489039460215|
| false|[14.341729, 76.74...| {5, 42, 0, 42}|89500666-3b06-46f...|[Pizza, Momo, Fri...| Card|4f1cdaea-bd26-41d...| {5, 4, 0, 42}| 93.032
52031337955|[14.329471, 76.70...|[542c7a86-b5b0-41b...|[4.6516200156689775|
| false|[11.185724, 79.16...|[10, 55, 0, 11]|781fcf90-0210-48b...|[Pizza, Fried Ric...|Cash On Delivery|cb4d57d0-250b-474...| {10, 17, 0, 11}| 205.07
21302953231|[11.229449, 79.12...|[f6d9b179-d3b4-4cd...|[10.253666514766155|
| true|[12.571137, 78.01...|[17, 51, 0, 29]|b436c92e-cb17-444...|[Pizza, Fried Ric...|Cash On Delivery|2ad1ce7f-1b28-4e6...| {17, 13, 0, 29}| 52.2118
64460536034|[12.541278, 78.01...|[62764947-8477-4fa...|[2.610593223026802|
| false|[13.03282, 77.07748...|[13, 7, 0, 53]|bf06ec82-ec9-4ac...|[Pizza, Burger, F...| Card|c5c5436a-e209-4d0...| {12, 29, 0, 53}| 168.063
57105271942|[13.078358, 77.08...|[141ea643-1f98-47a...|[8.403178552635971|
| false|[11.996952, 79.30...|[24, 32, 0, 24]|a088e603c-8b70-4f7...|[Pizza, Momo, Waf...|Cash On Delivery|ddb36f22-bd48-448...| {9, 54, 0, 24}| 47.1807
71959040015|[12.029685, 79.30...|[4fff1a90-cb92-444...|[2.359038597520008|
| true|[10.866409, 76.03...|[18, 0, 0, 13]|bc54d640-8157-4dc...|[Pizza, Muffins, ...| Card|7d32e232-f4a9-4e7...| {17, 22, 0, 13}| 201.236
62301894026|[10.859429, 76.07...|[d83c80ae-a121-40d...|[10.061831150947013|
+-----+-----+-----+-----+-----+-----+-----+-----+
only showing top 10 rows

```

```
scala> spark.sql("select avg(tip) as AverageTip from Food").show
+-----+
|      AverageTip|
+-----+
| 6.7917995998160725|
+-----+
```

Spark:

The screenshot shows an IDE interface with two tabs: "Foodinf" and "FoodInfoSpark". The "Foodinf" tab contains Java code for reading from Kafka and writing to a file. The "FoodInfoSpark" tab shows the execution log of the job. The log includes several INFO-level messages from the Spark framework and Kafka, indicating the start of the job, task execution, and RDD persistence.

```

1 package sparky;
2 import java.util.*;
3 public class Foodinf {
4     public static void
5         main(String[] args) {
6             SparkConf conf = new SparkConf().setAppName("Foodinf");
7             JavaStreamingContext ssc = new JavaStreamingContext(conf, Duration.seconds(1));
8             KafkaParams kafkaParams = new KafkaParams();
9             kafkaParams.bootstrapServers = "localhost:9092";
10            kafkaParams.groupId = "food-infospark";
11            kafkaParams.topic = "Food";
12            JavaPairDStream<String, String> lines = KafkaUtils.createDirectStream(ssc, kafkaParams);
13            lines.map((value, offset) -> value).print();
14            ssc.start();
15            ssc.awaitTermination();
16            ssc.close();
17        }
18    }
19 }
```

```

21/07/18 20:03:10 INFO TaskScheduler: Partition 0.0 is ready in stage 0.0 (TID 0) (192.168.29.166, executor driver, partition 0, PROCESS_LOCAL, 4363 bytes) taskResou
21/07/18 20:03:10 INFO Executor: Starting task 0.0 in stage 0.0 (TID 0) (192.168.29.166, executor driver, partition 0, PROCESS_LOCAL, 4363 bytes)
21/07/18 20:03:10 INFO Executor: Finished task 0.0 in stage 0.0 (TID 0). 794 bytes received from driver
21/07/18 20:03:10 INFO TaskSetManager: Finished task 0.0 in stage 0.0 (TID 0) in 0 ms on 192.168.29.166 (executor driver) (1/1)
21/07/18 20:03:10 INFO DAGScheduler: Removed TaskSet 0.0, whose tasks have all completed, from pool
21/07/18 20:03:10 INFO DAGScheduler: ResultStage 0 (print at FoodInfoSpark.java:41) finished in 0.012 s
21/07/18 20:03:10 INFO DAGScheduler: Job 8 is finished. Cancelling potential speculative or zombie tasks for this job
21/07/18 20:03:10 INFO TaskSchedulerImpl: Killing all running tasks in stage 0: Stage finished
21/07/18 20:03:10 INFO DAGScheduler: Job 8 finished: print at FoodInfoSpark.java:41, took 0.015577 s
21/07/18 20:03:10 INFO MapPartitionsRDD: Removing RDD 15 from persistence list
21/07/18 20:03:10 INFO BlockManager: Removing RDD 14 from persistence list
21/07/18 20:03:10 INFO KafkaRDD: Removing RDD 14 from persistence list
21/07/18 20:03:10 INFO ReceivedBlockTracker: Deleting batches:
21/07/18 20:03:10 INFO BlockManager: Removing RDD 14
21/07/18 20:03:10 INFO InputFormatRDD: removed old batch metadata: 1626618780000 ms
21/07/18 20:03:10 INFO SubscriptionState: [Consumer clientId=consumer-food-infospark-1, groupId=food-infospark] Seeking to LATEST offset of p
21/07/18 20:03:10 INFO SubscriptionState: [Consumer clientId=consumer-food-infospark-1, groupId=food-infospark] Resetting offset for partition
21/07/18 20:03:10 INFO Jobscheduler: Finished job streaming job 1626618790000 ms.0 from job set of time 1626618790000 ms
21/07/18 20:03:10 INFO Jobscheduler: Total delay: 0.037 s for time 1626618790000 ms (execution: 0.026 s)
21/07/18 20:03:10 INFO MapPartitionsRDD: Removing RDD 15 from persistence list
21/07/18 20:03:10 INFO BlockManager: Removing RDD 15
21/07/18 20:03:10 INFO DAGScheduler: Job 8 is finished. Cancelling potential speculative or zombie tasks for this job
21/07/18 20:03:10 INFO TaskSchedulerImpl: Killing all running tasks in stage 0: Stage finished
21/07/18 20:03:10 INFO DAGScheduler: Job 8 finished: print at FoodInfoSpark.java:41, took 0.015577 s
21/07/18 20:03:10 INFO MapPartitionsRDD: Removing RDD 15 from persistence list
21/07/18 20:03:10 INFO BlockManager: Removing RDD 14 from persistence list
21/07/18 20:03:10 INFO KafkaRDD: Removing RDD 14 from persistence list
21/07/18 20:03:10 INFO ReceivedBlockTracker: Deleting batches:
21/07/18 20:03:10 INFO BlockManager: Removing RDD 14
21/07/18 20:03:10 INFO InputFormatRDD: removed old batch metadata: 1626618780000 ms
21/07/18 20:03:10 INFO SubscriptionState: [Consumer clientId=consumer-food-infospark-1, groupId=food-infospark] Seeking to LATEST offset of p
21/07/18 20:03:10 INFO SubscriptionState: [Consumer clientId=consumer-food-infospark-1, groupId=food-infospark] Resetting offset for partition
21/07/18 20:03:10 INFO Jobscheduler: Added job 8 (print at FoodInfoSpark.java:41) with 1 output partitions
21/07/18 20:03:10 INFO DAGScheduler: Final stage: ResultStage 0 (print at FoodInfoSpark.java:41)
21/07/18 20:03:10 INFO DAGScheduler: Parent of final stage: List()
21/07/18 20:03:10 INFO DAGScheduler: Submitting ResultStage 0 (MapPartitionsRDD0[17]) at mapToPair at FoodInfoSpark.java:39, which has no missing parents
21/07/18 20:03:10 INFO MemoryStore: Block Broadcast_8 stored as memory (estimated size 4.5 KB, free 2.2 GB)
21/07/18 20:03:10 INFO MemoryStore: Block Broadcast_8_piece0 stored as bytes in memory (estimated size 2.7 KB, free 2.2 GB)
21/07/18 20:03:10 INFO DAGScheduler: Added broadcast 8 to memory at 192.168.29.166:38037057 (size: 2.7 KB, free: 2.2 GB)
21/07/18 20:03:10 INFO SparkContext: Created broadcast 8 from broadcast at DAGScheduler.scala:138
21/07/18 20:03:10 INFO DAGScheduler: Submitting 1 missing tasks from ResultStage 0 (MapPartitionsRDD0[17]) at mapToPair at FoodInfoSpark.java:39 (first 15 tasks
21/07/18 20:03:10 INFO TaskSchedulerImpl: Adding task 0.0 in stage 0.0 (TID 0) (192.168.29.166, executor driver, partition 0, PROCESS_LOCAL, 4363 bytes) taskResou
21/07/18 20:03:10 INFO Executor: Beginning task 0.0 in stage 0.0 (TID 0)
21/07/18 20:03:10 INFO Executor: Finished task 0.0 in stage 0.0 (TID 0). 794 bytes received from driver
21/07/18 20:03:10 INFO TaskSetManager: Finished task 0.0 in stage 0.0 (TID 0) in 0 ms on 192.168.29.166 (executor driver) (1/1)
21/07/18 20:03:10 INFO DAGScheduler: Removed TaskSet 0.0, whose tasks have all completed, from pool
21/07/18 20:03:10 INFO DAGScheduler: ResultStage 0 (print at FoodInfoSpark.java:41) finished in 0.012 s
21/07/18 20:03:10 INFO DAGScheduler: Job 8 is finished. Cancelling potential speculative or zombie tasks for this job
21/07/18 20:03:10 INFO TaskSchedulerImpl: Killing all running tasks in stage 0: Stage finished
21/07/18 20:03:10 INFO DAGScheduler: Job 8 finished: print at FoodInfoSpark.java:41, took 0.015577 s
21/07/18 20:03:10 INFO BlockManager: Removing RDD 15

```

This screenshot shows the same IDE interface as the previous one, but with a different execution log. The log shows a different sequence of events, likely due to a different run or configuration. It includes messages about task execution, RDD persistence, and job completion.

```

1 package sparky;
2 import java.util.*;
3 public class Foodinf {
4     public static void
5         main(String[] args) {
6             SparkConf conf = new SparkConf().setAppName("Foodinf");
7             JavaStreamingContext ssc = new JavaStreamingContext(conf, Duration.seconds(1));
8             KafkaParams kafkaParams = new KafkaParams();
9             kafkaParams.bootstrapServers = "localhost:9092";
10            kafkaParams.groupId = "food-infospark";
11            kafkaParams.topic = "Food";
12            JavaPairDStream<String, String> lines = KafkaUtils.createDirectStream(ssc, kafkaParams);
13            lines.map((value, offset) -> value).print();
14            ssc.start();
15            ssc.awaitTermination();
16            ssc.close();
17        }
18    }
19 }
```

```

21/07/18 20:03:05 INFO JobScheduler: Finished job streaming job 1626618785000 ms.0 from job set of time 1626618785000 ms
21/07/18 20:03:05 INFO MapPartitionsRDD: Removing RDD 13 from persistence list
21/07/18 20:03:05 INFO BlockManager: Removing RDD 12 from persistence list
21/07/18 20:03:05 INFO KafkaRDD: Removing RDD 12 from persistence list
21/07/18 20:03:05 INFO ReceivedBlockTracker: Deleting batches:
21/07/18 20:03:05 INFO BlockManager: Removing RDD 12
21/07/18 20:03:05 INFO InputFormatRDD: removed old batch metadata: 1626618775000 ms
21/07/18 20:03:05 INFO SubscriptionState: [Consumer clientId=consumer-food-infospark-1, groupId=food-infospark] Seeking to LATEST offset of p
21/07/18 20:03:05 INFO SubscriptionState: [Consumer clientId=consumer-food-infospark-1, groupId=food-infospark] Resetting offset for partition
21/07/18 20:03:05 INFO Jobscheduler: Added job 8 (print at FoodInfoSpark.java:41) with 1 output partitions
21/07/18 20:03:05 INFO DAGScheduler: Final stage: ResultStage 0 (print at FoodInfoSpark.java:41)
21/07/18 20:03:05 INFO DAGScheduler: Parent of final stage: List()
21/07/18 20:03:05 INFO DAGScheduler: Submitting ResultStage 0 (MapPartitionsRDD0[17]) at mapToPair at FoodInfoSpark.java:39, which has no missing parents
21/07/18 20:03:05 INFO MemoryStore: Block Broadcast_8 stored as memory (estimated size 4.5 KB, free 2.2 GB)
21/07/18 20:03:05 INFO MemoryStore: Block Broadcast_8_piece0 stored as bytes in memory (estimated size 2.7 KB, free 2.2 GB)
21/07/18 20:03:05 INFO DAGScheduler: Added broadcast 8 to memory at 192.168.29.166:38037057 (size: 2.7 KB, free: 2.2 GB)
21/07/18 20:03:05 INFO SparkContext: Created broadcast 8 from broadcast at DAGScheduler.scala:138
21/07/18 20:03:05 INFO DAGScheduler: Submitting 1 missing tasks from ResultStage 0 (MapPartitionsRDD0[17]) at mapToPair at FoodInfoSpark.java:39 (first 15 tasks
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21/07/18 20:03:05 INFO Executor: Finished task 0.0 in stage 0.0 (TID 0). 794 bytes received from driver
21/07/18 20:03:05 INFO TaskSetManager: Finished task 0.0 in stage 0.0 (TID 0) in 0 ms on 192.168.29.166 (executor driver) (1/1)
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21/07/18 20:03:05 INFO DAGScheduler: Job 8 is finished. Cancelling potential speculative or zombie tasks for this job
21/07/18 20:03:05 INFO TaskSchedulerImpl: Killing all running tasks in stage 0: Stage finished
21/07/18 20:03:05 INFO DAGScheduler: Job 8 finished: print at FoodInfoSpark.java:41, took 0.015577 s
21/07/18 20:03:05 INFO BlockManager: Removing RDD 15

```

Laptop battery low
Approximately 14 minutes remaining (10%)

FoodInfoSpark - Spark Jobs

User: kartik
Total Uptime: 1.3 min
Scheduling Mode: FIFO
Completed Jobs: 15

Event Timeline

Completed Jobs (15)

Page: 1 / 1 Pages. Jump to Show 100 items in a page Go

Job Id	Description	Submitted	Duration	Stages: Succeeded/Total	Tasks (for all stages): Succeeded/Total
14	Streaming job from [output operation 0, batch time 20:03:40] print at FoodInfoSpark.java:41	2021/07/18 20:03:40	13 ms	1/1	1/1
13	Streaming job from [output operation 0, batch time 20:03:35] print at FoodInfoSpark.java:41	2021/07/18 20:03:35	24 ms	1/1	1/1
12	Streaming job from [output operation 0, batch time 20:03:30] print at FoodInfoSpark.java:41	2021/07/18 20:03:30	14 ms	1/1	1/1
11	Streaming job from [output operation 0, batch time 20:03:25] print at FoodInfoSpark.java:41	2021/07/18 20:03:25	14 ms	1/1	1/1
10	Streaming job from [output operation 0, batch time 20:03:20] print at FoodInfoSpark.java:41	2021/07/18 20:03:20	15 ms	1/1	1/1
9	Streaming job from [output operation 0, batch time 20:03:15] print at FoodInfoSpark.java:41	2021/07/18 20:03:15	15 ms	1/1	1/1
8	Streaming job from [output operation 0, batch time 20:03:10] print at FoodInfoSpark.java:41	2021/07/18 20:03:10	14 ms	1/1	1/1
7	Streaming job from [output operation 0, batch time 20:03:05] print at FoodInfoSpark.java:41	2021/07/18 20:03:05	17 ms	1/1	1/1
6	Streaming job from [output operation 0, batch time 20:03:00] print at FoodInfoSpark.java:41	2021/07/18 20:03:00	22 ms	1/1	1/1
5	Streaming job from [output operation 0, batch time 20:02:55] print at FoodInfoSpark.java:41	2021/07/18 20:02:55	18 ms	1/1	1/1
4	Streaming job from [output operation 0, batch time 20:02:50] print at FoodInfoSpark.java:41	2021/07/18 20:02:50	18 ms	1/1	1/1
3	Streaming job from [output operation 0, batch time 20:02:45]	2021/07/18 20:02:45	23 ms	1/1	1/1



