```
[hadoop@ip-172-31-11-10 ~]$ vi timekpi.py
[hadoop@ip-172-31-11-10 ~]$ export SPARK_KAFKA_VERSION=0.10
[hadoop@ip-172-31-11-10 ~]$ spark-submit --packages org.apache.spark:spark-sql-kafka-0-10 2.11:2.4.5 timekpi.py
```

We first start a vi editor and write down our code the run the submit command as we can see in both the images

```
StructField("quantity", DoubleType())
  1)))
ord Stream = orderRaw.select(from json(col("value").cast("string"), jsonSchema).alias("data")).select("data...")
DataFrame Total Items Cost= ord Stream
    .withColumn (
                             , add total count(ord Stream.items))
    .withColumn (
                            , add total cost(ord Stream.items))
    .withColumn (
                           , add is order flg(ord Stream.type))
                           , add is return flg(ord Stream.type)).select("invoice no","country","timestamp","Total Items", "Total Cost","is order", "is return")
    .withColumn (
query = DataFrame Total Items Cost
        .writeStream
        .outputMode (
        .format(
        .option(
        .start()
aggStreamByTime = DataFrame Total Items Cost
    .withWatermark(
    .groupBy(window(
                      st").alias("total volume of sales"),count("invoice no").alias("OPM"),avg("is return").alias("avg rate of return")).select("window", "OPM",
queryByTime= aggStreamByTime.writeStream
        .format (
        .outputMode(
        .option (
        .option(
        .option (
        .trigger(processingTime="1 minute") \
        .start()
```

```
23/03/21 16:29:23 WARN Client: Same path resource file:///home/hadoop/.ivy2/jars/org.spark-project.spark unused-1.0.0.jar added multiple times to distributed cache.
23/03/21 16:29:23 WARN Client: Same path resource file:///home/hadoop/.ivy2/jars/org.lz4 lz4-java-1.4.0.jar added multiple times to distributed cache.
23/03/21 16:29:23 WARN Client: Same path resource file:///home/hadoop/.ivy2/jars/org.xerial.snappy snappy-java-1.1.7.3.jar added multiple times to distributed cache.
23/03/21 16:29:23 WARN Client: Same path resource file:///home/hadoop/.ivy2/jars/org.slf4j slf4j-api-1.7.16.jar added multiple times to distributed cache.
23/03/21 16:29:24 INFO Client: Uploading resource file:/mnt/tmp/spark-44ble33b-6da4-483c-9d83-280b2f68890f/ spark conf 8821677852790902781.zip -> hdfs://ip-172-31-11-
10.ec2.internal:8020/user/hadoop/.sparkStaging/application 1679415453838 0004/ spark conf .zip
23/03/21 16:29:24 INFO SecurityManager: Changing view acls to: hadoop
23/03/21 16:29:24 INFO SecurityManager: Changing modify acls to: hadoop
23/03/21 16:29:24 INFO SecurityManager: Changing view acls groups to:
23/03/21 16:29:24 INFO SecurityManager: Changing modify acls groups to:
23/03/21 16:29:24 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users with view permissions: Set(hadoop); groups with view permissi
ons: Set(); users with modify permissions: Set(hadoop); groups with modify permissions: Set()
23/03/21 16:29:25 INFO Client: Submitting application application 1679415453838 0004 to ResourceManager
23/03/21 16:29:25 INFO YarnClientImpl: Submitted application application 1679415453838 0004
23/03/21 16:29:25 INFO SchedulerExtensionServices: Starting Yarn extension services with app application 1679415453838 0004 and attemptId None
23/03/21 16:29:26 INFO Client: Application report for application 1679415453838 0004 (state: ACCEPTED)
23/03/21 16:29:26 INFO Client:
        client token: N/A
        diagnostics: AM container is launched, waiting for AM container to Register with RM
        ApplicationMaster host: N/A
        ApplicationMaster RPC port: -1
        queue: default
        start time: 1679416165685
        final status: UNDEFINED
        tracking URL: http://ip-172-31-11-10.ec2.internal:20888/proxy/application 1679415453838 0004/
        user: hadoop
23/03/21 16:29:27 INFO Client: Application report for application 1679415453838 0004 (state: ACCEPTED)
23/03/21 16:29:28 INFO Client: Application report for application 1679415453838 0004 (state: ACCEPTED)
23/03/21 16:29:29 INFO Client: Application report for application 1679415453838 0004 (state: ACCEPTED)
23/03/21 16:29:30 INFO Client: Application report for application 1679415453838 0004 (state: ACCEPTED)
We can see our code is running good and we didn't encountered any error so far.
```

23/03/21 16:29:23 WARN Client: Same path resource file:///home/hadoop/.ivy2/jars/org.apache.kafka kafka-clients-2.0.0.jar added multiple times to distributed cache.

d cache.

invoice_no	country	ī	timestamp		Total_Items	Total	_Cost	is_ord	der is_r	eturn
+ 154132553840681 +	United 	Kingdom	2023-03-21 	16:30:06	2.08 	20.8 		1	10	-
Batch: 2				735 735						
+ invoice_no	+ country	7	+ timestamp		+ Total_Items		+ Total	_Cost	 is_orde	-+ r is_ret
154132553840682	United	Kingdom	2023-03-21	16:30:08	+ 22.91		25.86		1	10
154132553840683	United	Kingdom	2023-03-21	16:30:15	14.82		18.65		1	10
154132553840684	United	Kingdom	2023-03-21	16:30:16	18.58		35.21		1	10
154132553840685	United	Kingdom	2023-03-21	16:30:16	20.04		169.9	5	1	10
154132553840686	United	Kingdom	2023-03-21	16:30:30	4.3599999999	999999	142.72		1	10
154132553840687	United	Kingdom	2023-03-21	16:30:31	12.34		31.36		1	10
154132553840688	United	Kingdom	2023-03-21	16:30:32	16.61		43.19		1	10
154132553840689	United	Kingdom	2023-03-21	16:30:33	3.6		13.6		1	10
154132553840690	United	Kingdom	2023-03-21	16:30:39	16.86		122.5	6	1	10
154132553840691	United	Kingdom	2023-03-21	16:30:44	11.41		67.21		1	10
154132553840692	United	Kingdom	2023-03-21	16:30:56	14.2		21.0		1	10
	EIRE		2023-03-21	16:30:59	12.08		117.49		1	10
154132553840693										
154132553840693 154132553840694		Kingdom	2023-03-21	16:31:00	4.26		23.51		1	10

Our output for time based kpi is ready now.

```
[hadoop@ip-172-31-11-10 ~]$ hadoop fs -ls time-wise-data
Found 27 items
                                      0 2023-03-21 16:43 time-wise-data/ spark metadata
             - hadoop hadoop
drwxr-xr-x
             1 hadoop hadoop
                                      0 2023-03-21 16:41 time-wise-data/part-00000-laea9ff7-e221-45d0-abe8-e12c013a38d5-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:39 time-wise-data/part-00000-3c236c17-42b6-4757-a79d-27fc59aec435-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:31 time-wise-data/part-00000-3eb32dc4-8a56-4c17-aeca-ce6feaaf157f-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:42 time-wise-data/part-00000-4976fabl-9f88-4ae5-a09a-b7dlb775b55e-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:37 time-wise-data/part-00000-52d4cle0-1ff0-48bb-9545-2628f4el2c2f-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:35 time-wise-data/part-00000-5bae644f-27f4-411c-ab63-17cf47733afe-c000.json
-rw-r--r--
                                      0 2023-03-21 16:29 time-wise-data/part-00000-6615081d-e8b9-490d-b802-d0076736fcf7-c000.json
             1 hadoop hadoop
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:32 time-wise-data/part-00000-6d41ad87-330f-4086-8a33-ca6f802a413c-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:40 time-wise-data/part-00000-74308367-dde9-4784-8d5d-c5c4b4c110ac-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:33 time-wise-data/part-00000-9f903d62-7c67-496c-a614-fa66d3dbb37e-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:34 time-wise-data/part-00000-a7834e51-e9d8-47e3-857e-b132cc02174b-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:30 time-wise-data/part-00000-a989f00d-b5e3-445b-adb4-f59c4ba5ffc5-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:38 time-wise-data/part-00000-c621761b-3c45-403d-ad8e-37e88d0e3910-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:43 time-wise-data/part-00000-d2b73737-4c44-42de-8afe-7d324282e867-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 16:36 time-wise-data/part-00000-d63cdb93-e33e-4fc6-8cdd-0ded33f8d64b-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    157 2023-03-21 16:35 time-wise-data/part-00007-02f105a4-a753-46f4-8587-b2eld6dc266b-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    147 2023-03-21 16:42 time-wise-data/part-00020-a426d97c-4bc3-4923-b884-201f9d1fe2a5-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    158 2023-03-21 16:34 time-wise-data/part-00044-d15150a3-a952-4443-bae7-8286283b4226-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    150 2023-03-21 16:41 time-wise-data/part-00070-4b40d736-aedd-407a-ab18-f7e3eeddf8a7-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    157 2023-03-21 16:37 time-wise-data/part-00074-6f5a055d-7975-45ea-9fcd-c9c8e9c3ddc0-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    158 2023-03-21 16:35 time-wise-data/part-00134-4a6c5973-a4c4-4fd3-b1a1-ba7e4b3fc124-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    157 2023-03-21 16:39 time-wise-data/part-00151-b9d82f22-194b-49e3-bede-d170831d256d-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    145 2023-03-21 16:38 time-wise-data/part-00175-35eedd71-af82-4fc8-aecd-0918868a0e6e-c000.json
-rw-r--r--
                                    146 2023-03-21 16:40 time-wise-data/part-00183-45da55a2-9671-4772-8996-5634caf2aefb-c000.json
             1 hadoop hadoop
-rw-r--r--
             1 hadoop hadoop
                                    146 2023-03-21 16:43 time-wise-data/part-00190-4c3ea46f-9224-4f4a-a5ab-7deea834ccf8-c000.json
-rw-r--r--
                                    157 2023-03-21 16:34 time-wise-data/part-00199-adddb8e5-1c2e-494e-8062-7f6b26e70ad9-c000.json
             1 hadoop hadoop
-rw-r--r--
```

And here is our files which is stored in the Json format.

```
[hadoop@ip-172-31-11-10 ~]$ vi coutry_kpi.py
[hadoop@ip-172-31-11-10 ~]$ spark-submit --packages org.apache.spark:spark-sql-kafka-0-10 2.11:2.4.5 coutry kpi.py
```

We first start a vi editor and write down our code the run the submit command as we can see in both the images

```
StructField(
                           , StringType()),
       StructField(
                             ce", DoubleType()),
                             , DoubleType())
       StructField(
  1)))
ord Stream = orderRaw.select(from json(col("value").cast("string"), jsonSchema).alias("data")).select("data."")
DataFrame Total Items Cost= ord Stream
    .withColumn (
                             ", add total count(ord Stream.items))
                             , add total cost(ord Stream.items))
    .withColumn (
                           , add is order flg(ord Stream.type))
   .withColumn (
                           , add is return flg(ord Stream.type)).select("invoice no
    .withColumn (
query = DataFrame Total Items Cost
        .writeStream
        .outputMode (
        .format (
        .option(
        .start()
aggStreamByCountry= DataFrame Total Items Cost
        .withWatermark(
        .groupBy(window(
                                                         ales"), count ("invoice no").alias ("OPM"), avg ("is return").alias ("avg rate of return")).select ("window",
        .agg(sum("
                             ).alias("
queryByCountry = aggStreamByCountry.writeStream
        .format (
        .outputMode (
        .option(
        .option(
```

```
23/03/21 16:57:30 INFO Client: Submitting application application 1679415453838 0005 to ResourceManager
23/03/21 16:57:30 INFO YarnClientImpl: Submitted application application 1679415453838 0005
23/03/21 16:57:30 INFO SchedulerExtensionServices: Starting Yarn extension services with app application 1679415453838 0005 and attemptId None
23/03/21 16:57:31 INFO Client: Application report for application 1679415453838 0005 (state: ACCEPTED)
23/03/21 16:57:31 INFO Client:
        client token: N/A
        diagnostics: AM container is launched, waiting for AM container to Register with RM
        ApplicationMaster host: N/A
        ApplicationMaster RPC port: -1
        queue: default
        start time: 1679417850051
        final status: UNDEFINED
        tracking URL: http://ip-172-31-11-10.ec2.internal:20888/proxy/application 1679415453838 0005/
        user: hadoop
23/03/21 16:57:32 INFO Client: Application report for application 1679415453838 0005 (state: ACCEPTED)
23/03/21 16:57:33 INFO Client: Application report for application 1679415453838 0005 (state: ACCEPTED)
23/03/21 16:57:34 INFO Client: Application report for application 1679415453838 0005 (state: ACCEPTED)
23/03/21 16:57:35 INFO Client: Application report for application 1679415453838 0005 (state: RUNNING)
23/03/21 16:57:35 INFO Client:
        client token: N/A
        diagnostics: N/A
        ApplicationMaster host: 172.31.11.10
        ApplicationMaster RPC port: -1
        queue: default
        start time: 1679417850051
        final status: UNDEFINED
        tracking URL: http://ip-172-31-11-10.ec2.internal:20888/proxy/application 1679415453838 0005/
        user: hadoop
23/03/21 16:57:35 INFO YarnClientSchedulerBackend: Application application 1679415453838 0005 has started running.
23/03/21 16:57:35 INFO Utils: Successfully started service 'org.apache.spark.network.netty.NettyBlockTransferService' on port 37901.
23/03/21 16:57:35 INFO NettyBlockTransferService: Server created on ip-172-31-11-10.ec2.internal:37901
23/03/21 16:57:35 INFO BlockManager: Using org.apache.spark.storage.RandomBlockReplicationPolicy for block replication policy
23/03/21 16:57:35 INFO BlockManagerMaster: Registering BlockManager BlockManagerId(driver, ip-172-31-11-10.ec2.internal, 37901, None)
23/03/21 16:57:35 INFO BlockManagerMasterEndpoint: Registering block manager ip-172-31-11-10.ec2.internal:37901 with 1028.8 MB RAM, BlockManagerId(driver, ip-172-31-11-
10.ec2.internal, 37901, None)
23/03/21 16:57:35 INFO BlockManagerMaster: Registered BlockManager BlockManagerId(driver, ip-172-31-11-10.ec2.internal, 37901, None)
23/03/21 16:57:35 INFO BlockManager: external shuffle service port = 7337
23/03/21 16:57:35 INFO BlockManager: Initialized BlockManager: BlockManagerId(driver, ip-172-31-11-10.ec2.internal, 37901, None)
23/03/21 16:57:35 INFO YarnClientSchedulerBackend: Add WebUI Filter. org.apache.hadoop.yarn.server.webproxy.amfilter.AmIpFilter, Map(PROXY HOSTS -> ip-172-31-11-10.ec2.
internal, PROXY URI BASES -> http://ip-172-31-11-10.ec2.internal:20888/proxy/application 1679415453838 0005), /proxy/application 1679415453838 0005
We can see our code is running good and we didn't encountered any error so far.
```

23/03/21 16:57:28 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users with view permissions: Set(hadoop); groups with view permissi

23/03/21 16:57:28 INFO SecurityManager: Changing View acis groups to: 23/03/21 16:57:28 INFO SecurityManager: Changing modify acis groups to:

ons: Set(); users with modify permissions: Set(hadoop); groups with modify permissions: Set()

invoice_no	country	timestamp		Total_Items	Total_C	ost is_order	is_ret	urn		
154132553841057	United Kingdom	2023-03-21	17:08:33	14.25	12.75	1	10			
154132553841058					31.21		10	i		
154132553841059					22.85	[1	10	i		
154132553841060					24.95	[1	10	1		
	+	+		+	+	+	+	+		
Batch: 8										
invoice_no	country	timestamp		Total_Items	Total_C	ost is_order	is_ret	urn		
154132553841061	United Kingdom	2023-03-21	17:09:21	2.1	2.1	11	10	į		
	+	+		+	+	+	+	+		
Batch: 9										
invoice_no	country	timestamp		Total_Items	· · · · · · · · · · · · · · · · · · ·	Total_Cost		 is_ord	+ er is_re	tu
154132553841062	Portugal	2023-03-21	17:09:30	+ 0.39	+	0.78		1	10	
154132553841063	Germany	2023-03-21	17:09:31	7.33	1	50.72		1	10	
154132553841064	United Kingdom	2023-03-21	17:09:46	6.78	1	16.05		1	10	
154132553841065	United Kingdom	2023-03-21	17:09:48	110.74	1	86.25		1	10	
154132553841066	United Kingdom	2023-03-21	17:09:51	10.33	1	83.789999999	99999	1	10	
154132553841067	United Kingdom	2023-03-21	17:10:00	115.38	1	53.260000000	000005	0	11	
154132553841068	United Kingdom	2023-03-21	17:10:05	11.65	1	3.3		1	10	
154132553841069								1	io.	
Batch: 10										
invoice_no	t country	+ timestamp		+ Total_Items	+ Total_C	+ ost is_order	+ is_ret	urn		
 154132553841070		+ 2023-03-21	17:10:11	+ 5 88	+ 17.53	+ 1	+ 10	+		
154132553841071					66.1		10	- i		
	+	+		+	+	+	+	+		
Our output for ti	ma basad kni is r	hady noty	1:			FOF I	= \	1/2/		
	HE DANEUKDINI I		- 10- 11-		The second second	THE RESERVE TO SERVE THE PARTY OF THE PARTY	The same of the sa	the state of the state of	F - VIII C	

```
[hadoop@ip-172-31-11-10 ~]$ hadoop fs -ls time-country-wise-kpl
Found 29 items
             - hadoop hadoop
                                      0 2023-03-21 17:16 time-country-wise-kpl/ spark metadata
drwxr-xr-x
             1 hadoop hadoop
                                      0 2023-03-21 17:03 time-country-wise-kpl/part-00000-0a223ba4-3047-4915-a4fe-56ca65020456-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 17:09 time-country-wise-kp1/part-00000-104fcca7-0e31-4249-8300-18f2ded68454-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 17:08 time-country-wise-kp1/part-00000-209910d8-dc4e-427a-8805-44ee38032007-c000.json
-rw-r--r--
             1 hadoop hadoop
                                      0 2023-03-21 17:11 time-country-wise-kpl/part-00000-42a2a9f9-9lab-4f5b-8d15-3c27a3037862-c000.json
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:05 time-country-wise-kpl/part-00000-7337e00f-3aca-411a-9947-27a9006e13e1-c000.json
-rw-r--r--
                                      0 2023-03-21 17:15 time-country-wise-kp1/part-00000-8b47bc62-6afe-4fe5-bdb8-678e2593ebd5-c000.json
            1 hadoop hadoop
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:06 time-country-wise-kpl/part-00000-a642d0cb-65ef-4e44-b442-5f901596fef5-c000.json
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:10 time-country-wise-kpl/part-00000-b503919a-2941-4ael-acac-505eea5cd7f8-c000.json
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:07 time-country-wise-kpl/part-00000-bdc8bb2c-7052-4ee0-8666-088d927d4511-c000.json
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:14 time-country-wise-kpl/part-00000-c650b279-5a48-4328-8ae5-9c7848779b9d-c000.json
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:16 time-country-wise-kpl/part-00000-c86542f8-5d03-4063-b07a-e5fb5aae6bcl-c000.json
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:13 time-country-wise-kpl/part-00000-e06aaadf-45d6-46dd-baa9-e52911ceb931-c000.json
-rw-r--r--
            1 hadoop hadoop
                                      0 2023-03-21 17:12 time-country-wise-kp1/part-00000-f8885a8d-2c3a-496b-9aeb-dlc10dldd045-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    184 2023-03-21 17:12 time-country-wise-kpl/part-00008-9b7d283c-7740-49e8-aa87-0a977dec6abd-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    162 2023-03-21 17:16 time-country-wise-kpl/part-00019-782ccfde-fd39-4733-afa7-2d34dd973f08-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    185 2023-03-21 17:08 time-country-wise-kpl/part-00026-598c18da-0b57-4f9f-b7e8-5be8a31162e1-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    171 2023-03-21 17:07 time-country-wise-kpl/part-00028-d000c605-81ad-4523-8579-272743fbla38-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    184 2023-03-21 17:15 time-country-wise-kpl/part-00030-8dle2b90-0e77-453f-a7b2-e5309445127f-c000.json
-rw-r--r--
                                    184 2023-03-21 17:11 time-country-wise-kpl/part-00033-7cf6e8c6-25fe-4ba5-b0da-be9e42e55560-c000.json
            1 hadoop hadoop
-rw-r--r--
            1 hadoop hadoop
                                    173 2023-03-21 17:10 time-country-wise-kpl/part-00047-62893666-7618-494d-983d-0066ada5a6dl-c000.json
-rw-r--r--
                                    164 2023-03-21 17:12 time-country-wise-kpl/part-00058-f5dadc37-b5c0-4e7b-a4c1-92acd8736ded-c000.json
            1 hadoop hadoop
-rw-r--r--
            1 hadoop hadoop
                                    171 2023-03-21 17:09 time-country-wise-kpl/part-00064-98ed7c73-317b-4851-b88a-ff1156bbfbdl-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    185 2023-03-21 17:13 time-country-wise-kpl/part-00068-9679287f-ccd4-4889-b914-494547dllfdd-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    161 2023-03-21 17:16 time-country-wise-kpl/part-00090-e19f8026-9blf-43d2-9630-c5f8f3072e47-c000.json
-rw-r--r--
            1 hadoop hadoop
                                    189 2023-03-21 17:14 time-country-wise-kpl/part-00096-04d3a708-a22f-49f6-b271-d8a4965b856b-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    184 2023-03-21 17:16 time-country-wise-kpl/part-00167-dlc83b9b-e48b-4fdl-8998-0a2d9b574740-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    164 2023-03-21 17:12 time-country-wise-kpl/part-00173-44bbf6d5-e3ac-4feb-8f94-fefcbdfbbc8c-c000.json
-rw-r--r--
             1 hadoop hadoop
                                    166 2023-03-21 17:09 time-country-wise-kpl/part-00186-d30f63e4-eclc-4160-bcfa-253fc64ablf6-c000.json
-rw-r--r--
[hadoop@ip-172-31-11-10 ~]$
```

And here is our files which is stored in the Json format.