ASSIGNMENT-07

1)

Step B:

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```

Magic number=211604

Commands:

hdfs dfs -copyFromLocal foodratings211604.txt /user/hadoop/foodratings211604.csv

hdfs dfs -copyFromLocal foodplaces211604.txt /user/hadoop/foodplaces211604.csv

Step C:

Magic number=211604

Code:

from pyspark.sql.types import*

>>>

Outputs:

2)

Code:

```
schema2=StructType(
.... [
.... StructField("placeid",IntegerType(),True),
.... StructField("placename",StringType(),True)
.... ]
.... )
>>> foodplaces=spark.read.csv('/user/hadoop/foodplaces211604.csv',schema=schema2)
>>> foodplaces.printSchema()
>>> foodplaces.head(5)
>>> foodplaces.show(5)
```

Output:

3)

Step A:

Code:

 $foodratings.createOrReplaceTempView("foodratingsT")\\ foodplaces.createOrReplaceTempView("foodplacesT")\\$

Output:

```
>>> foodratings.createOrReplaceTempView("foodratingsT")
>>> foodplaces.createOrReplaceTempView("foodplacesT")
>>> |
```

Step B:

Code:

foodratings_ex3a=spark.sql("select * from foodratingsT where food2<25 and food4 >40") foodratings_ex3a.printSchema() foodratings_ex3a.head(5) foodratings_ex3a.show(5)

Output:

```
>>> foodratings_ex3a=spark.sql("select * from foodratingsT where food2c25 and food6 > 40")
22/83/91 86:38:11 WARN ObjectStore: Failed to get database default, returning NoSuchObjectException
22/83/91 86:38:12 WARN ObjectStore: Failed to get database default, returning NoSuchObjectException
22/83/91 86:38:13 WARN ObjectStore: Failed to get database default, returning NoSuchObjectException
32/83/91 86:38:13 WARN ObjectStore: Failed to get database global_temp, returning NoSuchObjectException
32/83/91 86:38:13 WARN ObjectStore: Failed to get database global_temp, returning NoSuchObjectException
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32/83/91 86:38:13 WARN ObjectStore: Failed to get database default returning NoSuchObjectException
3
```

Step C:

Code:

```
foodplaces_ex3b=spark.sql("select * from foodplacesT where placeid>3") foodplaces_ex3b.printSchema() foodrplaces_ex3b.head(5) foodplaces_ex3b.show(5)
```

Output:

4)

Code:

```
foodratings_ex4=foodratings.filter((foodratings.name=="Mel")&(foodratings.food3<25))
foodratings_ex4.printSchema()
foodratings_ex4.head(5)
foodratings_ex4.show(5)
```

Output:

5)

Code:

```
foodratings_ex5=foodratings.select(foodratings.name,foodratings.placeid) foodratings_ex5.printSchema() foodratings_ex5.head(5)
```

foodratings ex5.show(5)

Output:

```
>>> foodratings_exS_efoodratings_select(foodratings.name, foodratings.placeid)
>>> foodratings_exS_printSchema()
File <atdin="1">
File <atdin=
```

6)

Code:

```
ex6=foodratings.join(foodplaces,foodratings.placeid==foodplaces.placeid,"inner") ex6.printSchema() ex6.head(5) ex6.show(5)
```

Output:

```
>>> ex6=foodratings.join[foodplaces,foodratings.placeid==foodplaces.placeid, "inner")
>>> ex6.printSchema()
root
|-- name: string (nullable = true)
|-- food2: integer (nullable = true)
|-- food2: integer (nullable = true)
|-- food2: integer (nullable = true)
|-- food3: integer (nullable = true)
|-- placeid: integer (nullable = t
```