

С:\Users\dvora>chcp 65001 && spark-shell -i D:\ETL_data_processing\Task_1\Task_1_in_home\s1_home.scala --conf "spark.driver.extraJavaOptions=-Dfile.encoding=utf-8"

Active code page: 65001

Using Spark's default log4j profile: org/apache/spark/log4j-defaults.properties

Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).

Spark context Web UI available at <http://LAPTOP:4040>

Spark context available as 'sc' (master = local[*], app id = local-1734387597781).

Spark session available as 'spark'.

ERROR StatusLogger Log4j2 could not find a logging implementation. Please add log4j-core to the classpath. Using SimpleLogger to log to the console...

FIRST NORMAL FORM:

Employee_ID	Name	Job_Code	Job	City_code	Home_city
E001	Alice	J01	Chef	26.0	Moscow
E001	Alice	J02	Waiter	26.0	Moscow
E002	Bob	J02	Waiter	56.0	Perm
E002	Bob	J03	Bartender	56.0	Perm
E003	Alice	J01	Chef	56.0	Perm

SECOND NORMAL FORM:

Employee_ID	Name	Home_city
E003	Alice	Perm
E002	Bob	Perm
E001	Alice	Moscow

Home_city	City_code
Moscow	26.0
Perm	56.0

Employee_ID	Job_Code	Job
E001	J01	Chef
E002	J03	Bartender
E002	J02	Waiter
E003	J01	Chef
E001	J02	Waiter

THIRD NORMAL FORM:

Employee_ID	Name	Home_city
E003	Alice	Perm
E002	Bob	Perm
E001	Alice	Moscow

Home_city	City_code
Moscow	26.0
Perm	56.0

Employee_ID	Job_Code
E003	J01
E001	J01
E001	J02
E002	J02
E002	J03

Job_Code	Job
J03	Bartender
J02	Waiter
J01	Chef

00:00:10

C:\Users\dvora>

ETL_1

- information_schema
- mysql
- performance_schema
- spark_task_1
- spark_task_home_1** 112,0 KiB
 - second_norm_form_table_1** 16,0 KiB
 - second_norm_form_table_2 16,0 KiB
 - second_norm_form_table_3 16,0 KiB
 - third_norm_form_table_1 16,0 KiB
 - third_norm_form_table_2 16,0 KiB
 - third_norm_form_table_3 16,0 KiB
 - third_norm_form_table_4 16,0 KiB

spark_task_home_1.second_norm_form_table_1: 3 строк (точно)

#	Employee_ID	Name	Home_city
1	E003	Alice	Perm
2	E002	Bob	Perm
3	E001	Alice	Moscow

Фильтр баз данных

Фильтр таблиц

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ETL_1

База данных: spark_task_home_1

Таблица: s

▼ ETL_1

> information_schema

> mysql

> performance_schema

> spark_task_1

▼

spark_task_home_1

 112,0 KiB

second_norm_form_table_1

 16,0 KiB

second_norm_form_table_2

 16,0 KiB

second_norm_form_table_3

 16,0 KiB

third_norm_form_table_1

 16,0 KiB

third_norm_form_table_2

 16,0 KiB

third_norm_form_table_3

 16,0 KiB

third_norm_form_table_4

 16,0 KiB

spark_task_home_1.second_norm_form_table_2: 2 строк (точно)

#	Home_city	City_code
1	Moscow	26
2	Perm	56

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 - third_norm_form_table_4 16,0 KiB

spark_task_home_1.second_norm_form_table_3: 5 строк (точно)

#	Employee_ID	Job_Code	Job
1	E001	J01	Chef
2	E002	J03	Bartender
3	E002	J02	Waiter
4	E003	J01	Chef
5	E001	J02	Waiter



ETL_1

> information_schema

> mysql

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> spark_task_1

✓ spark_task_home_1 112,0 KiB

second_norm_form_table_1 16,0 KiB

second_norm_form_table_2 16,0 KiB

second_norm_form_table_3 16,0 KiB

third_norm_form_table_1 16,0 KiB


third_norm_form_table_2 16,0 KiB













third_norm_form_table_3 16,0 KiB

third_norm_form_table_4 16,0 KiB

spark_task_home_1.third_norm_form_table_1: 3 строк (точно)


#	Employee_ID	Name	Home_city
1	E003	Alice	Perm
2	E002	Bob	Perm
3	E001	Alice	Moscow













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 -  third_norm_form_table_4 16,0 KiB

spark_task_home_1.third_norm_form_table_2: 2 строк (точно)

#	Home_city	City_code
1	Moscow	26
2	Perm	56

✓  **ETL_1**

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 -  third_norm_form_table_4 16,0 KiB

spark_task_home_1.third_norm_form_table_3: 5 строк (точно)

#	Employee_ID	Job_Code
1	E003	J01
2	E001	J01
3	E001	J02
4	E002	J02
5	E002	J03



ETL_1

> information_schema

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> **spark_task_home_1** 112,0 KiB

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third_norm_form_table_4 16,0 KiB

> task_2

spark_task_home_1.third_norm_form_table_4: 3 строк (точно)

#	Job_Code	Job
1	J03	Bartender
2	J02	Waiter
3	J01	Chef