

Data Cleaning in Databricks

Removing Duplicate Rows

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes	Wardel	fwardel1@list-manage.com	Male	224.93.24.171
2	Forbes	Wardel	fwardel1@list-manage.com	Male	224.93.24.171

df = df.dropDuplicates()

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes	Wardel	fwardel1@list-manage.com	Male	224.93.24.171



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Filtering Rows

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes	Wardel	fwardel1@list-manage.com	Male	224.93.24.171
3	Nesta	Beamond	nbeamond2@gov.uk	Female	124.97.188.174

`df = df.filter(df.id > 2)`

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes	Wardel	fwardel1@list-manage.com	Male	224.93.24.171



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Filling or Replacing Null Values

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes	Wardel	NULL	Male	224.93.24.171
3	Nesta	Beamond	nbeamond2@gov.uk	Female	124.97.188.174

`df = df.na.fill(value="unknown", subset=["email"])`

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes	Wardel	unknown	Male	224.93.24.171
3	Nesta	Beamond	nbeamond2@gov.uk	Female	124.97.188.174



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Trimming Strings

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes ____	Wardel	fwardel1@list-manage.com	Male	224.93.24.171
3	____Nesta	Beamond	nbeamond2@gov.uk	Female	124.97.188.174

```
from pyspark.sql.functions import trim  
df = df.withColumn("first_name", trim(df.first_name))
```

id	first_name	last_name	email	gender	ip_address
1	Karita	Sendley	ksendley0@parallels.com	Female	114.8.222.223
2	Forbes	Wardel	fwardel1@list-manage.com	Male	224.93.24.171
3	Nesta	Beamond	nbeamond2@gov.uk	Female	124.97.188.174



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Type Casting

id	first_name	last_name	email	gender	age
1	Karita	Sendley	ksendley0@parallels.com	Female	35
2	Forbes	Wardel	fwardel1@list-manage.com	Male	45
3	Nesta	Beamond	nbeamond2@gov.uk	Female	23

`df = df.withColumn("age", df["age"].cast("integer"))`

id	first_name	last_name	email	gender	age
1	Karita	Sendley	ksendley0@parallels.com	Female	35
2	Forbes	Wardel	fwardel1@list-manage.com	Male	45
3	Nesta	Beamond	nbeamond2@gov.uk	Female	23



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Renaming Columns

id	first_name	last_name	email	gender	age
1	Karita	Sendley	ksendley0@parallels.com	Female	35
2	Forbes	Wardel	fwardel1@list-manage.com	Male	45
3	Nesta	Beamond	nbeamond2@gov.uk	Female	23

`df = df.withColumnRenamed("id", "cust_id")`

cust_id	first_name	last_name	email	gender	age
1	Karita	Sendley	ksendley0@parallels.com	Female	35
2	Forbes	Wardel	fwardel1@list-manage.com	Male	45
3	Nesta	Beamond	nbeamond2@gov.uk	Female	23



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Dropping Columns

id	first_name	last_name	email	gender	age
1	Karita	Sendley	ksendley0@parallels.com	Female	35
2	Forbes	Wardel	fwardel1@list-manage.com	Male	45
3	Nesta	Beamond	nbeamond2@gov.uk	Female	23

`df = df.drop("age")`

cust_id	first_name	last_name	email	gender
1	Karita	Sendley	ksendley0@parallels.com	Female
2	Forbes	Wardel	fwardel1@list-manage.com	Male
3	Nesta	Beamond	nbeamond2@gov.uk	Female



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Splitting Columns

id	full_name	email	gender
1	Karita Sendley	ksendley0@parallels.com	Female
2	Forbes Wardel	fwardel1@list-manage.com	Male
3	Nesta Beamond	nbeamond2@gov.uk	Female

`from pyspark.sql.functions import split`
`df = df.withColumn("full_name", split(df["full_name"],`
`" ")).select("full_name.*")`

cust_id	full_name[0]	full_name[1]	email	gender
1	Karita	Sendley	ksendley0@parallels.com	Female
2	Forbes	Wardel	fwardel1@list-manage.com	Male
3	Nesta	Beamond	nbeamond2@gov.uk	Female



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Merging Columns

id	first_name	last_name	email	gender	age
1	Karita	Sendley	ksendley0@parallels.com	Female	35
2	Forbes	Wardel	fwardel1@list-manage.com	Male	45
3	Nesta	Beamond	nbeamond2@gov.uk	Female	23

```
from pyspark.sql.functions import concat_ws
df = df.withColumn("full_name",
concat_ws(" ", df["first_name"], df["last_name"]))
```

id	full_name	email	gender	age
1	Karita Sendley	ksendley0@parallels.com	Female	35
2	Forbes Wardel	fwardel1@list-manage.com	Male	45
3	Nesta Beamond	nbeamond2@gov.uk	Female	23



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