Run

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-+ n		name age height_meter weight_kg children					occupation academic_degree salary locatio		
+-		++	+		+	+	+-	+	+
- 1		Darlena Avila	581	1.87	531	11	Choreographerl	PhDI	681 South Dakot
	1	.l Yan Boydl	65 I	1.81	401	01	Cellarmanı	Bachelor	731 Delawar
el I		Joette Lanel	321	1.8	731	1 Ve	terinary Surgeonl	Masterl	691 South Dakot
	3	Jazmine Huntl	611	1.791	891	01	Hawkerl	PhDI	881 Louisian
al I	4	Remedios Gomez	231	1.641	511	21	Choreographerl	Bachelor	83 West Virgini
al I	5	Myung Brewerl	201	1.681	60 I	41	Window Dresser	Bachelor	651 South Dakot
al I	6	Shaun Lynchl	311	1.561	621	01	Weaverl	Masterl	721 Louisian
al I	7	'I Melodi McdowellI	561	1.61	421	01 L	ighthouse Keeperl	Masterl	651 Louisian
al I			301	1.62	441	31	Millwright	Masterl	871 Louisian
āi I	9	Merri Charles	441	1.691	511	51	Medical Supplier	PhDI	72 West Virgini
n al I		Ol Cassi Meyers	551	1.821	721	51	Manicurist	Started Bachelor	Juno∨ ۞ 經 73 South Dakot

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```
%pyspark
# What occupation had the highest salary?
df.orderBy(df["Salary"].desc()).select("occupation", "Salary").limit(1).show()
+----+
      occupation|Salary|
+----+
| Medical Physicist
+----+
%pyspark
# What occupation had the lowest salary?
df.orderBy(df["Salary"]).select("occupation", "Salary").limit(1).show()
+----+
    occupation|Salary|
+----+
|Window Dresser|
                651
+----+
%pyspark
# What is the mean salary of this dataset?
from pyspark.sql.functions import mean
df.select(mean("Salary")).show()
+----+
lavg(Salary)|
+----+
    77.7381
+----+
```

%pyspark (/U4G66226D/spaces)
What is the max and min of the Salary column?
from pyspark.sql.functions import max, min
df.select(max("Salary"), min("Salary")).show()

+-----+
| Imax(Salary)|min(Salary)|
+-----+
| 90| 65|
+-----+

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```
%pyspark (/U4G66226D/spaces)
# Show all of the occupations where salaries were above 80k
from pyspark.sql.functions import count
df.filter("Salary > 80").select("occupation").show()
```

occupation Hawkerl Choreographerl Millwrightl Medical Physicist! Scientistl Claims Adjustorl | Planning Technician| Booking Clerkl Sub-Postmasterl Shelf Filler Chemistl Betting Shopl Hire Car Driver Heating Engineer Vehicle Assessor Building Surveyor | Advertising Contr...| Medical Physicist Labourerl Technical Analyst only showing top 20 rows

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```
%pyspark (/U4G66226D/spaces)
# BONUS
# What is the average age and height for each academic degree type?
# HINT: You will need to use `groupby` to solve this
avg_df = df.groupBy("academic_degree").avg()
avg_df.select("academic_degree", "avg(age)", "avg(height_meter)").show()
+-----
                    avg(age)| avg(height_meter)|
lacademic_degreel
+-----
          PhDI 43.15976331360947|1.7438165680473379|
       Master|43.139318885448915|1.7549226006191951|
      Bachelor | 42.51032448377581 | 1.757227138643069 |
+-----
                                                                                     Q_{V}
```

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Interpreter: spark.