RUN DOCKER FILE :

**cd 769finalproj**

**docker-compose up -d**

HBASE SHELL:

Access Shell

**Docker exec -it hbase /bin/bash -c ‘hbase shell’**

From within the shell

TO SEE TABLES: **list**

TO CREATE TABLE:

**create ‘table\_name’, ‘column family 1’, ‘column family 2’, ‘column family 3’**

TO ADD DATA:

**put ‘table\_name’, ‘row\_key’, ‘column family:column name’, ‘value’**

TO READ DATA:

**Scan ‘table\_name’’**

TO UPDATE DATA:

**put ‘table’, ‘row\_key’, ‘column family: column’, ‘new\_value’**

It will overwrite

TO DELETE TABLE:

**disable ‘table\_name’**

**drop ‘table\_name’**

TO DELETE ROW:

**delete 'table\_name', 'row\_key'**

TO DELETE COLUMN:

**delete ‘table\_name’, ‘row\_key’, ‘column family:column’**

CONNECT VIA DRILL:

Storage Config:

**{**

**"type": "hbase",**

**"config": {**

**"hbase.zookeeper.quorum": "hbase",**

**"hbase.zookeeper.property.clientPort": "2181"**

**},**

**"enabled": true**

**}**

CONVERT TO UTF8, SO IT’S READABLE

**SELECT**

**CONVERT\_FROM(row\_key, 'UTF8')as id,**

**CONVERT\_FROM(demo.stats.runs, 'UTF8')as runs,**

**CONVERT\_FROM(demo.contract.salary, 'UTF8')as salary,**

**CONVERT\_FROM(demo.other.team, 'UTF8')as team**

**FROM hbase.`demo`**

PYSPARK (DOESN’T WORK)

**import pyspark**

**from pyspark.sql import SparkSession**

**spark = SparkSession.builder \**

**.master("local") \**

**.appName('jupyter-pyspark') \**

**.config("spark.jars.packages","org.apache.hbase.connectors.spark:hbase-spark:1.0.0") \**

**.getOrCreate()**

**sc = spark.sparkContext**

**sc.setLogLevel("ERROR")**

**# Create a sample DataFrame**

**data = [("Alice", 25), ("Bob", 30), ("Charlie", 35)]**

**df = spark.createDataFrame(data, ["name", "age"])**

**# Write DataFrame to HBase**

**df.write \**

**.options(table='test', catalog='{"table":{"namespace":"default", "name":"test"}, "rowkey":"key", "columns":{"name":{"cf":"rowkey", "col":"key"}, "age":{"cf":"cf", "col":"age"}}}') \**

**.format('org.apache.hadoop.hbase.spark') \**

**.save()**

Demo Code:

**Copy & Paste Code into Hbase Shell**

create 'baseball\_data', 'player\_info', 'player\_stats', 'team\_info', 'team\_stats'

put 'baseball\_data', '1', 'player\_info:player\_number', 14

put 'baseball\_data', '1', 'player\_info:position', '1B'

put 'baseball\_data', '1', 'player\_info:country', 'USA'

put 'baseball\_data', '1', 'player\_info:bat', 'Left'

put 'baseball\_data', '1', 'player\_info:throw', 'Right'

put 'baseball\_data', '1', 'player\_stats:games\_played', 67

put 'baseball\_data', '1', 'player\_stats:ab', 195

put 'baseball\_data', '1', 'player\_stats:hits', 47

put 'baseball\_data', '1', 'player\_stats:avg', 0.242

put 'baseball\_data', '1', 'player\_stats:homeruns', 4

put 'baseball\_data', '1', 'team\_info:city', 'NewYork'

put 'baseball\_data', '1', 'team\_info:name', 'Mets'

put 'baseball\_data', '1', 'team\_stats:wins', 76

put 'baseball\_data', '1', 'team\_stats:losses', 86

put 'baseball\_data', '2', 'player\_info:player\_number', 85

put 'baseball\_data', '2', 'player\_info:position', '3B'

put 'baseball\_data', '2', 'player\_info:country', 'Korea'

put 'baseball\_data', '2', 'player\_info:bat', 'Left'

put 'baseball\_data', '2', 'player\_info:throw', 'Right'

put 'baseball\_data', '2', 'player\_stats:games\_played', 53

put 'baseball\_data', '2', 'player\_stats:ab', 158

put 'baseball\_data', '2', 'player\_stats:hits', 39

put 'baseball\_data', '2', 'player\_stats:avg', 0.247

put 'baseball\_data', '2', 'player\_stats:homeruns', 3

put 'baseball\_data', '2', 'team\_info:city', 'NewYork'

put 'baseball\_data', '2', 'team\_info:name', 'Mets'

put 'baseball\_data', '2', 'team\_stats:wins', 76

put 'baseball\_data', '2', 'team\_stats:losses', 86

put 'baseball\_data', '3', 'player\_info:player\_number', 92

put 'baseball\_data', '3', 'player\_info:position', 'OF'

put 'baseball\_data', '3', 'player\_info:country', 'Japan'

put 'baseball\_data', '3', 'player\_info:bat', 'Right'

put 'baseball\_data', '3', 'player\_info:throw', 'Left'

put 'baseball\_data', '3', 'player\_stats:games\_played', 130

put 'baseball\_data', '3', 'player\_stats:ab', 360

put 'baseball\_data', '3', 'player\_stats:hits', 81

put 'baseball\_data', '3', 'player\_stats:avg', 0.225

put 'baseball\_data', '3', 'player\_stats:homeruns', 13

put 'baseball\_data', '3', 'team\_info:city', 'NewYork'

put 'baseball\_data', '3', 'team\_info:name', 'Mets'

put 'baseball\_data', '3', 'team\_stats:wins', 76

put 'baseball\_data', '3', 'team\_stats:losses', 86

put 'baseball\_data', '4', 'player\_info:player\_number', 62

put 'baseball\_data', '4', 'player\_info:position', 'C'

put 'baseball\_data', '4', 'player\_info:country', 'USA'

put 'baseball\_data', '4', 'player\_info:bat', 'Right'

put 'baseball\_data', '4', 'player\_info:throw', 'Right'

put 'baseball\_data', '4', 'player\_stats:games\_played', 70

put 'baseball\_data', '4', 'player\_stats:ab', 199

put 'baseball\_data', '4', 'player\_stats:hits', 45

put 'baseball\_data', '4', 'player\_stats:avg', 0.225

put 'baseball\_data', '4', 'player\_stats:homeruns', 9

put 'baseball\_data', '4', 'team\_info:city', 'NewYork'

put 'baseball\_data', '4', 'team\_info:name', 'Mets'

put 'baseball\_data', '4', 'team\_stats:wins', 76

put 'baseball\_data', '4', 'team\_stats:losses', 86

put 'baseball\_data', '5', 'player\_info:player\_number', 76

put 'baseball\_data', '5', 'player\_info:position', 'OF'

put 'baseball\_data', '5', 'player\_info:country', 'USA'

put 'baseball\_data', '5', 'player\_info:bat', 'Left'

put 'baseball\_data', '5', 'player\_info:throw', 'Left'

put 'baseball\_data', '5', 'player\_stats:games\_played', 65

put 'baseball\_data', '5', 'player\_stats:ab', 192

put 'baseball\_data', '5', 'player\_stats:hits', 53

put 'baseball\_data', '5', 'player\_stats:avg', 0.274

put 'baseball\_data', '5', 'player\_stats:homeruns', 6

put 'baseball\_data', '5', 'team\_info:city', 'NewYork'

put 'baseball\_data', '5', 'team\_info:name', 'Mets'

put 'baseball\_data', '5', 'team\_stats:wins', 76

put 'baseball\_data', '5', 'team\_stats:losses', 86

put 'baseball\_data', '6', 'player\_info:player\_number', 87

put 'baseball\_data', '6', 'player\_info:position', '2B'

put 'baseball\_data', '6', 'player\_info:country', 'USA'

put 'baseball\_data', '6', 'player\_info:bat', 'Right'

put 'baseball\_data', '6', 'player\_info:throw', 'Right'

put 'baseball\_data', '6', 'player\_stats:games\_played', 63

put 'baseball\_data', '6', 'player\_stats:ab', 196

put 'baseball\_data', '6', 'player\_stats:hits', 46

put 'baseball\_data', '6', 'player\_stats:avg', 0.235

put 'baseball\_data', '6', 'player\_stats:homeruns', 9

put 'baseball\_data', '6', 'team\_info:city', 'NewYork'

put 'baseball\_data', '6', 'team\_info:name', 'Mets'

put 'baseball\_data', '6', 'team\_stats:wins', 76

put 'baseball\_data', '6', 'team\_stats:losses', 86

put 'baseball\_data', '7', 'player\_info:player\_number', 85

put 'baseball\_data', '7', 'player\_info:position', '3B'

put 'baseball\_data', '7', 'player\_info:country', 'Mexico'

put 'baseball\_data', '7', 'player\_info:bat', 'Left'

put 'baseball\_data', '7', 'player\_info:throw', 'Left'

put 'baseball\_data', '7', 'player\_stats:games\_played', 61

put 'baseball\_data', '7', 'player\_stats:ab', 201

put 'baseball\_data', '7', 'player\_stats:hits', 46

put 'baseball\_data', '7', 'player\_stats:avg', 0.228

put 'baseball\_data', '7', 'player\_stats:homeruns', 5

put 'baseball\_data', '7', 'team\_info:city', 'NewYork'

put 'baseball\_data', '7', 'team\_info:name', 'Mets'

put 'baseball\_data', '7', 'team\_stats:wins', 76

put 'baseball\_data', '7', 'team\_stats:losses', 86

put 'baseball\_data', '8', 'player\_info:player\_number', 45

put 'baseball\_data', '8', 'player\_info:position', '1B'

put 'baseball\_data', '8', 'player\_info:country', 'Canada'

put 'baseball\_data', '8', 'player\_info:bat', 'Right'

put 'baseball\_data', '8', 'player\_info:throw', 'Left'

put 'baseball\_data', '8', 'player\_stats:games\_played', 134

put 'baseball\_data', '8', 'player\_stats:ab', 402

put 'baseball\_data', '8', 'player\_stats:hits', 105

put 'baseball\_data', '8', 'player\_stats:avg', 0.26

put 'baseball\_data', '8', 'player\_stats:homeruns', 17

put 'baseball\_data', '8', 'team\_info:city', 'NewYork'

put 'baseball\_data', '8', 'team\_info:name', 'Mets'

put 'baseball\_data', '8', 'team\_stats:wins', 76

put 'baseball\_data', '8', 'team\_stats:losses', 86

put 'baseball\_data', '9', 'player\_info:player\_number', 16

put 'baseball\_data', '9', 'player\_info:position', '1B'

put 'baseball\_data', '9', 'player\_info:country', 'Puerto Rico'

put 'baseball\_data', '9', 'player\_info:bat', 'Left'

put 'baseball\_data', '9', 'player\_info:throw', 'Right'

put 'baseball\_data', '9', 'player\_stats:games\_played', 46

put 'baseball\_data', '9', 'player\_stats:ab', 138

put 'baseball\_data', '9', 'player\_stats:hits', 37

put 'baseball\_data', '9', 'player\_stats:avg', 0.27

put 'baseball\_data', '9', 'player\_stats:homeruns', 4

put 'baseball\_data', '9', 'team\_info:city', 'NewYork'

put 'baseball\_data', '9', 'team\_info:name', 'Mets'

put 'baseball\_data', '9', 'team\_stats:wins', 76

put 'baseball\_data', '9', 'team\_stats:losses', 86

put 'baseball\_data', '10', 'player\_info:player\_number', 70

put 'baseball\_data', '10', 'player\_info:position', '2B'

put 'baseball\_data', '10', 'player\_info:country', 'Cuba'

put 'baseball\_data', '10', 'player\_info:bat', 'Left'

put 'baseball\_data', '10', 'player\_info:throw', 'Right'

put 'baseball\_data', '10', 'player\_stats:games\_played', 27

put 'baseball\_data', '10', 'player\_stats:ab', 82

put 'baseball\_data', '10', 'player\_stats:hits', 21

put 'baseball\_data', '10', 'player\_stats:avg', 0.251

put 'baseball\_data', '10', 'player\_stats:homeruns', 4

put 'baseball\_data', '10', 'team\_info:city', 'NewYork'

put 'baseball\_data', '10', 'team\_info:name', 'Mets'

put 'baseball\_data', '10', 'team\_stats:wins', 76

put 'baseball\_data', '10', 'team\_stats:losses', 86

put 'baseball\_data', '11', 'player\_info:player\_number', 59

put 'baseball\_data', '11', 'player\_info:position', 'SS'

put 'baseball\_data', '11', 'player\_info:country', 'Korea'

put 'baseball\_data', '11', 'player\_info:bat', 'Left'

put 'baseball\_data', '11', 'player\_info:throw', 'Left'

put 'baseball\_data', '11', 'player\_stats:games\_played', 75

put 'baseball\_data', '11', 'player\_stats:ab', 218

put 'baseball\_data', '11', 'player\_stats:hits', 60

put 'baseball\_data', '11', 'player\_stats:avg', 0.277

put 'baseball\_data', '11', 'player\_stats:homeruns', 10

put 'baseball\_data', '11', 'team\_info:city', 'NewYork'

put 'baseball\_data', '11', 'team\_info:name', 'Mets'

put 'baseball\_data', '11', 'team\_stats:wins', 76

put 'baseball\_data', '11', 'team\_stats:losses', 86

put 'baseball\_data', '12', 'player\_info:player\_number', 42

put 'baseball\_data', '12', 'player\_info:position', '2B'

put 'baseball\_data', '12', 'player\_info:country', 'Puerto Rico'

put 'baseball\_data', '12', 'player\_info:bat', 'Right'

put 'baseball\_data', '12', 'player\_info:throw', 'Right'

put 'baseball\_data', '12', 'player\_stats:games\_played', 66

put 'baseball\_data', '12', 'player\_stats:ab', 202

put 'baseball\_data', '12', 'player\_stats:hits', 51

put 'baseball\_data', '12', 'player\_stats:avg', 0.251

put 'baseball\_data', '12', 'player\_stats:homeruns', 10

put 'baseball\_data', '12', 'team\_info:city', 'NewYork'

put 'baseball\_data', '12', 'team\_info:name', 'Mets'

put 'baseball\_data', '12', 'team\_stats:wins', 76

put 'baseball\_data', '12', 'team\_stats:losses', 86

put 'baseball\_data', '13', 'player\_info:player\_number', 68

put 'baseball\_data', '13', 'player\_info:position', 'OF'

put 'baseball\_data', '13', 'player\_info:country', 'Mexico'

put 'baseball\_data', '13', 'player\_info:bat', 'Left'

put 'baseball\_data', '13', 'player\_info:throw', 'Left'

put 'baseball\_data', '13', 'player\_stats:games\_played', 60

put 'baseball\_data', '13', 'player\_stats:ab', 192

put 'baseball\_data', '13', 'player\_stats:hits', 49

put 'baseball\_data', '13', 'player\_stats:avg', 0.256

put 'baseball\_data', '13', 'player\_stats:homeruns', 6

put 'baseball\_data', '13', 'team\_info:city', 'NewYork'

put 'baseball\_data', '13', 'team\_info:name', 'Mets'

put 'baseball\_data', '13', 'team\_stats:wins', 76

put 'baseball\_data', '13', 'team\_stats:losses', 86

put 'baseball\_data', '14', 'player\_info:player\_number', 13

put 'baseball\_data', '14', 'player\_info:position', 'C'

put 'baseball\_data', '14', 'player\_info:country', 'Mexico'

put 'baseball\_data', '14', 'player\_info:bat', 'Left'

put 'baseball\_data', '14', 'player\_info:throw', 'Left'

put 'baseball\_data', '14', 'player\_stats:games\_played', 43

put 'baseball\_data', '14', 'player\_stats:ab', 144

put 'baseball\_data', '14', 'player\_stats:hits', 34

put 'baseball\_data', '14', 'player\_stats:avg', 0.235

put 'baseball\_data', '14', 'player\_stats:homeruns', 5

put 'baseball\_data', '14', 'team\_info:city', 'Chicago'

put 'baseball\_data', '14', 'team\_info:name', 'Cubs'

put 'baseball\_data', '14', 'team\_stats:wins', 53

put 'baseball\_data', '14', 'team\_stats:losses', 109

put 'baseball\_data', '15', 'player\_info:player\_number', 54

put 'baseball\_data', '15', 'player\_info:position', '2B'

put 'baseball\_data', '15', 'player\_info:country', 'USA'

put 'baseball\_data', '15', 'player\_info:bat', 'Left'

put 'baseball\_data', '15', 'player\_info:throw', 'Left'

put 'baseball\_data', '15', 'player\_stats:games\_played', 113

put 'baseball\_data', '15', 'player\_stats:ab', 290

put 'baseball\_data', '15', 'player\_stats:hits', 74

put 'baseball\_data', '15', 'player\_stats:avg', 0.256

put 'baseball\_data', '15', 'player\_stats:homeruns', 14

put 'baseball\_data', '15', 'team\_info:city', 'Chicago'

put 'baseball\_data', '15', 'team\_info:name', 'Cubs'

put 'baseball\_data', '15', 'team\_stats:wins', 53

put 'baseball\_data', '15', 'team\_stats:losses', 109

put 'baseball\_data', '16', 'player\_info:player\_number', 58

put 'baseball\_data', '16', 'player\_info:position', 'SS'

put 'baseball\_data', '16', 'player\_info:country', 'Japan'

put 'baseball\_data', '16', 'player\_info:bat', 'Left'

put 'baseball\_data', '16', 'player\_info:throw', 'Left'

put 'baseball\_data', '16', 'player\_stats:games\_played', 64

put 'baseball\_data', '16', 'player\_stats:ab', 183

put 'baseball\_data', '16', 'player\_stats:hits', 48

put 'baseball\_data', '16', 'player\_stats:avg', 0.262

put 'baseball\_data', '16', 'player\_stats:homeruns', 8

put 'baseball\_data', '16', 'team\_info:city', 'Chicago'

put 'baseball\_data', '16', 'team\_info:name', 'Cubs'

put 'baseball\_data', '16', 'team\_stats:wins', 53

put 'baseball\_data', '16', 'team\_stats:losses', 109

put 'baseball\_data', '17', 'player\_info:player\_number', 54

put 'baseball\_data', '17', 'player\_info:position', '2B'

put 'baseball\_data', '17', 'player\_info:country', 'Japan'

put 'baseball\_data', '17', 'player\_info:bat', 'Left'

put 'baseball\_data', '17', 'player\_info:throw', 'Right'

put 'baseball\_data', '17', 'player\_stats:games\_played', 160

put 'baseball\_data', '17', 'player\_stats:ab', 419

put 'baseball\_data', '17', 'player\_stats:hits', 94

put 'baseball\_data', '17', 'player\_stats:avg', 0.224

put 'baseball\_data', '17', 'player\_stats:homeruns', 15

put 'baseball\_data', '17', 'team\_info:city', 'Chicago'

put 'baseball\_data', '17', 'team\_info:name', 'Cubs'

put 'baseball\_data', '17', 'team\_stats:wins', 53

put 'baseball\_data', '17', 'team\_stats:losses', 109

put 'baseball\_data', '18', 'player\_info:player\_number', 12

put 'baseball\_data', '18', 'player\_info:position', '2B'

put 'baseball\_data', '18', 'player\_info:country', 'Canada'

put 'baseball\_data', '18', 'player\_info:bat', 'Right'

put 'baseball\_data', '18', 'player\_info:throw', 'Left'

put 'baseball\_data', '18', 'player\_stats:games\_played', 59

put 'baseball\_data', '18', 'player\_stats:ab', 169

put 'baseball\_data', '18', 'player\_stats:hits', 41

put 'baseball\_data', '18', 'player\_stats:avg', 0.24

put 'baseball\_data', '18', 'player\_stats:homeruns', 4

put 'baseball\_data', '18', 'team\_info:city', 'Chicago'

put 'baseball\_data', '18', 'team\_info:name', 'Cubs'

put 'baseball\_data', '18', 'team\_stats:wins', 53

put 'baseball\_data', '18', 'team\_stats:losses', 109

put 'baseball\_data', '19', 'player\_info:player\_number', 66

put 'baseball\_data', '19', 'player\_info:position', 'SS'

put 'baseball\_data', '19', 'player\_info:country', 'Japan'

put 'baseball\_data', '19', 'player\_info:bat', 'Right'

put 'baseball\_data', '19', 'player\_info:throw', 'Left'

put 'baseball\_data', '19', 'player\_stats:games\_played', 79

put 'baseball\_data', '19', 'player\_stats:ab', 257

put 'baseball\_data', '19', 'player\_stats:hits', 67

put 'baseball\_data', '19', 'player\_stats:avg', 0.261

put 'baseball\_data', '19', 'player\_stats:homeruns', 7

put 'baseball\_data', '19', 'team\_info:city', 'Chicago'

put 'baseball\_data', '19', 'team\_info:name', 'Cubs'

put 'baseball\_data', '19', 'team\_stats:wins', 53

put 'baseball\_data', '19', 'team\_stats:losses', 109

put 'baseball\_data', '20', 'player\_info:player\_number', 82

put 'baseball\_data', '20', 'player\_info:position', '2B'

put 'baseball\_data', '20', 'player\_info:country', 'Korea'

put 'baseball\_data', '20', 'player\_info:bat', 'Right'

put 'baseball\_data', '20', 'player\_info:throw', 'Right'

put 'baseball\_data', '20', 'player\_stats:games\_played', 89

put 'baseball\_data', '20', 'player\_stats:ab', 270

put 'baseball\_data', '20', 'player\_stats:hits', 55

put 'baseball\_data', '20', 'player\_stats:avg', 0.204

put 'baseball\_data', '20', 'player\_stats:homeruns', 9

put 'baseball\_data', '20', 'team\_info:city', 'Chicago'

put 'baseball\_data', '20', 'team\_info:name', 'Cubs'

put 'baseball\_data', '20', 'team\_stats:wins', 53

put 'baseball\_data', '20', 'team\_stats:losses', 109

put 'baseball\_data', '21', 'player\_info:player\_number', 30

put 'baseball\_data', '21', 'player\_info:position', '3B'

put 'baseball\_data', '21', 'player\_info:country', 'Puerto Rico'

put 'baseball\_data', '21', 'player\_info:bat', 'Right'

put 'baseball\_data', '21', 'player\_info:throw', 'Left'

put 'baseball\_data', '21', 'player\_stats:games\_played', 153

put 'baseball\_data', '21', 'player\_stats:ab', 526

put 'baseball\_data', '21', 'player\_stats:hits', 145

put 'baseball\_data', '21', 'player\_stats:avg', 0.276

put 'baseball\_data', '21', 'player\_stats:homeruns', 25

put 'baseball\_data', '21', 'team\_info:city', 'Chicago'

put 'baseball\_data', '21', 'team\_info:name', 'Cubs'

put 'baseball\_data', '21', 'team\_stats:wins', 53

put 'baseball\_data', '21', 'team\_stats:losses', 109

put 'baseball\_data', '22', 'player\_info:player\_number', 80

put 'baseball\_data', '22', 'player\_info:position', 'C'

put 'baseball\_data', '22', 'player\_info:country', 'Cuba'

put 'baseball\_data', '22', 'player\_info:bat', 'Right'

put 'baseball\_data', '22', 'player\_info:throw', 'Left'

put 'baseball\_data', '22', 'player\_stats:games\_played', 89

put 'baseball\_data', '22', 'player\_stats:ab', 227

put 'baseball\_data', '22', 'player\_stats:hits', 61

put 'baseball\_data', '22', 'player\_stats:avg', 0.268

put 'baseball\_data', '22', 'player\_stats:homeruns', 11

put 'baseball\_data', '22', 'team\_info:city', 'Chicago'

put 'baseball\_data', '22', 'team\_info:name', 'Cubs'

put 'baseball\_data', '22', 'team\_stats:wins', 53

put 'baseball\_data', '22', 'team\_stats:losses', 109

put 'baseball\_data', '23', 'player\_info:player\_number', 22

put 'baseball\_data', '23', 'player\_info:position', '2B'

put 'baseball\_data', '23', 'player\_info:country', 'Mexico'

put 'baseball\_data', '23', 'player\_info:bat', 'Left'

put 'baseball\_data', '23', 'player\_info:throw', 'Left'

put 'baseball\_data', '23', 'player\_stats:games\_played', 66

put 'baseball\_data', '23', 'player\_stats:ab', 184

put 'baseball\_data', '23', 'player\_stats:hits', 43

put 'baseball\_data', '23', 'player\_stats:avg', 0.231

put 'baseball\_data', '23', 'player\_stats:homeruns', 6

put 'baseball\_data', '23', 'team\_info:city', 'Chicago'

put 'baseball\_data', '23', 'team\_info:name', 'Cubs'

put 'baseball\_data', '23', 'team\_stats:wins', 53

put 'baseball\_data', '23', 'team\_stats:losses', 109

put 'baseball\_data', '24', 'player\_info:player\_number', 5

put 'baseball\_data', '24', 'player\_info:position', '1B'

put 'baseball\_data', '24', 'player\_info:country', 'USA'

put 'baseball\_data', '24', 'player\_info:bat', 'Left'

put 'baseball\_data', '24', 'player\_info:throw', 'Right'

put 'baseball\_data', '24', 'player\_stats:games\_played', 54

put 'baseball\_data', '24', 'player\_stats:ab', 156

put 'baseball\_data', '24', 'player\_stats:hits', 38

put 'baseball\_data', '24', 'player\_stats:avg', 0.245

put 'baseball\_data', '24', 'player\_stats:homeruns', 4

put 'baseball\_data', '24', 'team\_info:city', 'Chicago'

put 'baseball\_data', '24', 'team\_info:name', 'Cubs'

put 'baseball\_data', '24', 'team\_stats:wins', 53

put 'baseball\_data', '24', 'team\_stats:losses', 109

put 'baseball\_data', '25', 'player\_info:player\_number', 66

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​

**Configure Drill, select schema, and query select statement:**