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# Databricks notebook source

from pyspark.sql import SparkSession
# Create SparkSession
spark = SparkSession.builder \
               .appName('SparkByExamples.com') \
               .getOrCreate()
data=[["1","2020-02-01"],["2","2019-03-01"],["3","2021-03-01"]]
df=spark.createDataFrame(data,["id","input"])
df.show()

from pyspark.sql.functions import *

#current_date()
df.select(current_date().alias("current_date")
  ).show(1)

#date_format()
df.select(col("input"),
    date_format(col("input"), "MM-dd-yyyy").alias("date_format")
  ).show()

#to_date()
df.select(col("input"),
    to_date(col("input"), "yyy-MM-dd").alias("to_date")
  ).show()

#datediff()
df.select(col("input"),
    datediff(current_date(),col("input")).alias("datediff")
  ).show()

#months_between()
df.select(col("input"),

months_between(current_date(),col("input")).alias("months_between")
  ).show()

#trunc()
df.select(col("input"),
    trunc(col("input"),"Month").alias("Month_Trunc"),
    trunc(col("input"),"Year").alias("Month_Year"),
    trunc(col("input"),"Month").alias("Month_Trunc")
   ).show()

#add_months() , date_add(), date_sub()

df.select(col("input"),
    add_months(col("input"),3).alias("add_months"),
    add_months(col("input"),-3).alias("sub_months"),
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    date_add(col("input"),4).alias("date_add"),
    date_sub(col("input"),4).alias("date_sub")
  ).show()

#

df.select(col("input"),
     year(col("input")).alias("year"),
     month(col("input")).alias("month"),
     next_day(col("input"),"Sunday").alias("next_day"),
     weekofyear(col("input")).alias("weekofyear")
  ).show()

df.select(col("input"),
     dayofweek(col("input")).alias("dayofweek"),
     dayofmonth(col("input")).alias("dayofmonth"),
     dayofyear(col("input")).alias("dayofyear"),
  ).show()

data=[["1","02-01-2020 11 01 19 06"],["2","03-01-2019 12 01 19 406"],
["3","03-01-2021 12 01 19 406"]]
df2=spark.createDataFrame(data,["id","input"])
df2.show(truncate=False)

#current_timestamp()
df2.select(current_timestamp().alias("current_timestamp")
  ).show(1,truncate=False)

#to_timestamp()
df2.select(col("input"),
    to_timestamp(col("input"), "MM-dd-yyyy HH mm ss
SSS").alias("to_timestamp")
  ).show(truncate=False)


#hour, minute,second
data=[["1","2020-02-01 11:01:19.06"],["2","2019-03-01 12:01:19.406"],
["3","2021-03-01 12:01:19.406"]]
df3=spark.createDataFrame(data,["id","input"])

df3.select(col("input"),
    hour(col("input")).alias("hour"),
    minute(col("input")).alias("minute"),
    second(col("input")).alias("second")
  ).show(truncate=False)




# COMMAND ----------
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