

In [1]: %load\_ext sql

%sql mysql+pymysql://root:@localhost/chocolates *#connecting to db names chocolates running on local mysql server*

0 rows affected.

Out[1]: []

In [4]: %%sql  
*#select into clause. Modified for MariaDB syntax*  
*#used to make a copy of the existing table*

CREATE TABLE NEW\_SALES AS  
SELECT  
    SPID,  
    GEOID,  
    PID,  
    SALEDATE  
FROM  
    SALES  
WHERE  
    SALEDATE BETWEEN '2021-01-01' AND '2021-12-31';

\* mysql+pymysql://root:\*\*\*@localhost/chocolates  
5997 rows affected.

Out[4]: []

In [8]: %%sql  
*#INSERT into clause.*  
*#used to copy data to a existing table existing table*

TRUNCATE NEW\_SALES ;

\* mysql+pymysql://root:\*\*\*@localhost/chocolates  
0 rows affected.

Out[8]: []

In [9]: %%sql  
*#INSERT into clause.*  
*#used to copy data to a existing table existing table*

INSERT INTO NEW\_SALES (SPID, GEOID, PID, SALEDATE)  
SELECT SPID, GEOID, PID, SALEDATE  
FROM SALES  
WHERE SALEDATE BETWEEN '2021-01-01' AND '2021-12-31';

\* mysql+pymysql://root:\*\*\*@localhost/chocolates  
5997 rows affected.

Out[9]: []

In [16]: %%sql  
*#index optimizes queries, resulting in faster execution times*  
CREATE INDEX idx\_salesdate  
ON SALES (SALEDATE);

\* mysql+pymysql://root:\*\*\*@localhost/chocolates  
0 rows affected.

Out[16]: []

In [17]: %%sql  
*#UPDATE CLAUSE*  
UPDATE PEOPLE  
SET TEAM = NULLIF(Team, '');

\* mysql+pymysql://root:\*\*\*@localhost/chocolates  
33 rows affected.

Out[17]: []

In [20]: %%sql  
*#ALTER CLAUSE*  
ALTER TABLE SALES  
ADD COLUMN REVENUE INT AS (AMOUNT \* BOXES) STORED;

\* mysql+pymysql://root:\*\*\*@localhost/chocolates  
7617 rows affected.

Out[20]: []

In [21]: %%sql

\* mysql+pymysql://root:\*\*\*@localhost/chocolates  
10 rows affected.

Out[21]:

SPID	GEOID	PID	SALEDATE	AMOUNT	CUSTOMERS	BOXES	REVENUE
SP01	G4	P04	2021-01-01 00:00:00	8414	276	495	4164930
SP02	G3	P14	2021-01-01 00:00:00	532	317	54	28728
SP12	G2	P08	2021-01-01 00:00:00	5376	178	269	1446144
SP01	G4	P15	2021-01-01 00:00:00	259	32	22	5698
SP19	G2	P18	2021-01-01 00:00:00	5530	4	179	989870
SP17	G1	P13	2021-01-01 00:00:00	2184	63	122	266448
SP20	G6	P04	2021-01-01 00:00:00	1057	295	71	75047
SP14	G5	P16	2021-01-01 00:00:00	1036	370	37	38332
SP10	G5	P17	2021-01-01 00:00:00	4039	536	176	710864
SP06	G4	P01	2021-01-01 00:00:00	12894	115	478	6163332

In [ ]: