Date:- 19-08-2021

* CTE :-

WITH cte\_sales\_amounts (staff, sales, year) AS (

SELECT

first\_name + ' ' + last\_name,

SUM(quantity \* list\_price \* (1 - discount)),

YEAR(order\_date)

FROM

sales.orders o

INNER JOIN sales.order\_items i ON i.order\_id = o.order\_id

INNER JOIN sales.staffs s ON s.staff\_id = o.staff\_id

GROUP BY

first\_name + ' ' + last\_name,

year(order\_date)

)

SELECT

staff,

sales

FROM

cte\_sales\_amounts

WHERE

year = 2018;

* Created new database called BookShop
* Creating tables

CREATE TABLE author

(

NAME VARCHAR(255),

CONSTRAINT unique\_name UNIQUE (NAME),

address VARCHAR(255),

CONSTRAINT unique\_address UNIQUE (address),

url VARCHAR(255)

);

CREATE TABLE publisher

(

NAME VARCHAR(255),

CONSTRAINT unique\_pname UNIQUE (NAME),

address VARCHAR(255),

phone VARCHAR(255),

url VARCHAR(255)

);

CREATE TABLE book

(

isbn VARCHAR(255),

NAME VARCHAR(255),

CONSTRAINT unique\_isbn UNIQUE (isbn),

publisher\_name VARCHAR(255)

CONSTRAINT fk\_book FOREIGN KEY (publisher\_name) REFERENCES publisher(

NAME),

authorname VARCHAR(255)

CONSTRAINT fk\_author FOREIGN KEY (authorname) REFERENCES author(NAME),

authoradress VARCHAR(255)

CONSTRAINT fk\_adress FOREIGN KEY (authoradress) REFERENCES author(

address),

year INT,

title VARCHAR(255),

price NUMERIC(19, 0)

);

CREATE TABLE warehouse

(

code INT PRIMARY KEY IDENTITY (1, 1),

phone VARCHAR(255),

adress VARCHAR(255)

);

CREATE TABLE warehouse\_book

(

warehouse\_code INT

CONSTRAINT fk\_code FOREIGN KEY (warehouse\_code) REFERENCES warehouse(

code),

bookisbn VARCHAR(255)

CONSTRAINT fk\_bookisbn FOREIGN KEY (bookisbn) REFERENCES book(isbn),

count INT

);

CREATE TABLE customer

(

email VARCHAR(255),

CONSTRAINT unique\_email UNIQUE (email),

NAME VARCHAR(255),

phone VARCHAR(255),

address VARCHAR(255)

);

CREATE TABLE shoppingbasket

(

id INT PRIMARY KEY IDENTITY (1, 1),

customeremail VARCHAR(255)

CONSTRAINT fk\_customeremail FOREIGN KEY (customeremail) REFERENCES customer

(email),

);

CREATE TABLE shoppingbasket\_book

(

shoppingbasket\_id INT PRIMARY KEY IDENTITY(1, 1)

CONSTRAINT fk\_shoppingbook FOREIGN KEY (shoppingbasket\_id) REFERENCES

shoppingbasket(id),

bookisbn VARCHAR(255)

CONSTRAINT fk\_bookbasket FOREIGN KEY (bookisbn) REFERENCES book(isbn),

count INT

);

* Inserting data into table

INSERT INTO author

(NAME,

address,

url)

VALUES ( 'karan Motwani',

'Gujarat',

'https://karanmotwani' ),

( 'Priyatosh Dixit',

'Maharashtra',

'https://PriyatoshDixit' ),

( 'Hamza Usmani',

'UP',

'https://Hamzausmani' );

INSERT INTO publisher

(NAME,

address,

phone,

url)

VALUES ( 'Siddarth Menon',

'kerala',

'8275913637',

'https://siddarthmenon' ),

( 'Gauri Tawde',

'Himachal',

'8668822108',

'https://gauritawde' ),

( 'Monika Jambhale',

'MP',

'8275854512',

'https://monikajambhale' );

INSERT INTO book

(isbn,

NAME,

publisher\_name,

authorname,

authoraddress,

year,

title,

price)

VALUES ( '25634',

2017,

'Subtle art',

300.50);

* ER diagram of BookShop

