Task 1

**create** **table** orders(

order\_id serial **primary** **key**,

order\_date **timestamp** **not** **null**,

customer\_id **int** **not** **null** **referencing** customers(customer\_id),

price **numeric** **not** **null**

)

**create** **table** order\_item(

order\_item\_id **text** **not** **null**,

order\_id **int** **not** **null** **referencing** orders (order\_id) ,

products\_id **int** **not** **null** **referencing** products(product\_id),

stock\_quantity **text** **not** **null**,

total\_amount **int** **not** **null**,

quantity **not** **null**

)

**create** **table** customer(

customer\_id serial **primary** **key**,

name **varchar** (100),

email **text** **unique** **all**,

phone\_number **int** **not** **null**,

address **text** **not** **null**

);

**create** **table** products(

products\_id serial **primary** **key**,

product\_name **text** **not** **null**,

category **text** **not** **null**,

price **numeric** **not** **null**,

**Task 2**

**10**

**insert** **into** customer(customer\_id, **name**,email,phone\_number, address) **values**

(1, 'jackson gorge', 'sonofdavid@gmail.com', +234 8039182273,'234 queen str yaba'),

(2, 'david janet', 'davidjanet02@gmail.com', +1 (231)373 2910,'11 jacksonvile florida'),

(3, ' judah jesus', 'jjeus@gmail.com', +234 8166238211,'22 ayesan street ijebu-ode'),

(4, ' adebayo femi','mrpormoter@gmail.com',+1 (223)283 0975,'23 maryland rd texas'),

(5,'barnabas peter', 'peterbass@gmail.com', +234 07023471822,'44 adeola est iyana ipaja'),

(6,'musa danjuma','danjuman@gmmail.com',+223 08123457811,'01 buhari lane kastina '),

(7,'bolaji daniel', 'bodboy@gmail.com', +1 (213)265 8670, '5 bayewa rd ijebu ode'),

(8, 'folajimi oloritun','folatun@gmail.com',+ 234 8123224166,'01 ilaporu junction ilaporu ijebu'),

(9, 'kikelomo adegbite', 'kieades@gmail.com', +1(214) 234 6789, '12 ondo rd ijebu-ode'),

(10, 'precious nwagu','pnwagu@gmail.com', +234 81 25338199,'19 ateke palace okrika')

10

**insert** **into** products(prodcuts\_id, product\_name, category,price) **values**

(1, 'mojees soap', 'cleaning', 1240.32),

(2, 'oraimo power bank', 'accessories', 14000.00),

(3, 'laptop', 'Accessorie',200.000),

(4, 'Garri', 'food stufff', 65000.00),

(5, 'shoe', 'fashion', 1039.00),

(6, 'socket', 'Accesories', 2500),

(7,'shirt',' Fashion', 14000),

(8, 'banana', 'Fruits', 19000),

(9, 'laptop charger', 'Accessories',12000),

(10, 'Spaghetti', 'Food stuff', 1990)

**20**

**insert** **into** orders(order\_id, order\_date,customer\_id,price) **values**

(1, '2023-01-15 10:35:21',1, 192300),

(2,'2023-02-15 10:35:21', 2, 281727),

(3, '2023-03-15 10:35:21',3, 36457),

(4, '2023-01-15 10:35:21',4, 20392),

(5,'2023-04-15 10:35:21', 5, 2123),

(6,'2023-08-15 10:35:21', 6,2189),

(7,'2023-09-15 10:35:21',7, 12000),

(8, '2023-09-15 10:35:21', 8, 12393),

(9, '2023-07-15 10:35:21',9, 12839),

(10,'2023-09-15 10:35:21', 10, 2374),

(11, '2023-11-15 10:35:21',1, 192300),

(12,'2023-22-15 10:35:21', 2, 281727),

(13, '2023-30-15 10:35:21',3, 36457),

(14, '2023-21-15 10:35:21',4, 20392),

(15,'2023-14-15 10:35:21', 5, 2123),

(16,'2023-28-15 10:35:21', 6,2189),

(17,'2023-19-15 10:35:21',7, 12000),

(18, '2023-29-15 10:35:21', 8, 12393),

(19, '2023-10-15 10:35:21',9, 12839),

(20,'2023-10-15 10:35:21', 10, 2374)

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**insert** **into** order\_item(order\_item\_id, order\_id,products\_id,stock\_quantity,total\_amount, quantity)**values**

(1, 1, 1, 8, 234.99, 1),

(2, 2, 2, 11, 4563.99, 9),

(3, 3, 3, 5, 897.99, 1),

(4, 4, 4, 1, 789.99, 2),

(5, 5, 5, 8, 980.99, 6),

(6, 6, 6, 5, 234.99, 9),

(7, 7, 7, 12, 345.99, 1),

(8, 8, 8, 10, 2345.99, 19),

(9, 9, 9, 23, 123.99, 12),

(10,10,10 20, 23419.99,129),

(11, 11, 11, 8, 234.99,1),

(12, 12, 12, 11, 4563.99,9),

(13, 13, 13, 5, 897.99, 1),

(14, 14, 14, 1, 789.99, 2),

(15, 15, 15, 8, 980.99, 6),

(16, 16, 16, 5, 234.99, 9),

(17, 17, 17, 12, 345.99, 1),

(18, 18, 18, 10, 2345.99,19),

(19, 19, 19, 23, 123.99,12),

(20,20,20 20, 23419.99, 129),

(21, 21, 21, 8, 234.99, 1),

(22, 22,22, 11, 4563.99, 9),

(23, 23, 23, 5, 897.99, 1),

(24, 24, 24, 1, 789.99, 2),

(25, 25, 25, 8, 980.99, 6),

(26, 26, 26, 5, 234.99, 9),

(27, 27, 27, 12, 345.99, 1),

(28, 28, 28, 10, 2345.99 19),

(29, 29, 29, 23, 123.99, 12),

(30, 30, 30, 30, 23419.99,129),

(31, 31, 31, 8, 234.99, 1),

(32, 32, 32, 11, 4563.99, 9),

(33, 33, 33, 5, 897.99, 1),

(34, 34, 34, 1, 789.99, 2),

(35, 35, 35, 8, 980.99, 6),

(36, 36, 36, 5, 234.99, 9),

(37, 37, 37, 12, 345.99, 1),

(38, 38, 38, 10, 2345.99, 19),

(39, 39, 39, 23, 123.99, 12),

(40,40, 40, 20, 23419.99,129),

(41, 41, 41, 8, 234.99, 1),

(42, 42, 42, 11, 4563.99, 9),

(43, 43, 43, 5, 897.99, 1),

(44, 44, 44, 1, 789.99, 2),

(45, 45, 45, 8, 980.99, 6),

(46, 46, 46, 5, 234.99, 9),

(47, 47, 47, 12, 345.99, 1),

(48, 48, 48, 10, 2345.99, 19),

(49, 49, 49, 23, 123.99, 12),

(50, 50,50 , 20, 23419.99,129),

Task 4

client = MongoClient ('mongodb://localhost:27017/')

db = client['ecommerce']

users = db["orders"]

customers.insert\_many([

{"customer\_id":1, "name":'jackson gorge', "email": 'sonofdavid@gmail.com',"address":'234 queen str yaba'},

{"customer\_id":2, "name":'david janet', "email":'davidjanet02@gmail.com',"address":'11 jacksonvile florida'},

{"customer\_id":3, "name":'judah jesus', "email": 'jjeus@gmail.com',"address":'22 ayesan street ijebu-ode'},

{"customer\_id":4, "name": ' adebayo femi', "email":'peterbass@gmail.com', "address":'44 adeola est iyana ipaja'},

{"customer\_id":6,"name":'musa danjuma', "email":'danjuman@gmmail.com',"address":'01 buhari lane kastina '},

{"customer\_id":7, "name":'bolaji daniel', "email":'bodboy@gmail.com',"address": '5 bayewa rd ijebu ode'},

{"customer\_id":8, "name": 'folajimi oloritun',"email":'folatun@gmail.com',"address":'1 ilaporu junction ilaporu ijebu'},

{"customer\_id":9,"name": 'kikelomo adegbite', "email": 'kieades@gmail.com', "address": '12 ondo rd ijebu-ode'},

{"customer\_id":10, "name":'precious nwagu', "email":'pnwagu@gmail.com', "address":'19 ateke palace okrika'}

])

client = MongoClient ('mongodb://localhost:27017/')

ecmommerce = db ['prodcuts']

users = db ['products']

products.insert\_many([

{"prodcuts\_id":1,"product\_name": "mojees soap", "category":"cleaning","price": 1240.32},

{"prodcuts\_id":2,"product\_name": "oraimo power bank","category": "accessories","price": 14000.00},

{"prodcuts\_id":3,"product\_name": "laptop", "category":"Accessorie","price":200.000},

{"prodcuts\_id":4, "product\_name":"Garri", "category":"food stufff","price": 65000.00},

{"prodcuts\_id":5,"product\_name": "shoe", "category":"fashion","price": 1039.00},

{"prodcuts\_id":6,"product\_name": "socket","category": "Accesories","price": 2500},

{"prodcuts\_id":7,"product\_name":"shirt","category":"Fashion","price": 14000},

{"prodcuts\_id":8, "product\_name":"banana","category": "Fruits","price": 1900},

{"prodcuts\_id":9,"product\_name": "laptop charger","category": "Accessories","price":12000},

{"prodcuts\_id":10,"product\_name": "Spaghetti", "category":"Food stuff","price": 1990 }

])

client = MongoClient ('mongodb://localhost:27017/')

ecommerce = db['orders']

users = db["orders"]

orders.insert\_many([

{"order\_id":1, "order\_date":'2023-01-15 10:35:21',"customer\_id":1,"price": 192300},

{"order\_id":2, "order\_date":'2023-02-15 10:35:21',"customer\_id": 2, "price":281727},

{"order\_id":3, "order\_date": '2023-03-15 10:35:21',"customer\_id":3, "price":36457},

{"order\_id":4, "order\_date": '2023-01-15 10:35:21',"customer\_id":4,"price":20392},

{"order\_id":5, "order\_date":'2023-04-15 10:35:21',"customer\_id": 5, "price":2123},

{"order\_id":6, "order\_date":'2023-08-15 10:35:21' ,"customer\_id":6,"price":2189},

{"order\_id":7, "order\_date":'2023-09-15 10:35:21',"customer\_id":7, "price":12000},

{"order\_id":8, "order\_date":'2023-09-15 10:35:21',"customer\_id": 8,"price": 12393},

{"order\_id":9, "order\_date":'2023-07-15 10:35:21',"customer\_id":9, "price":12839},

{"order\_id":10, "order\_date":'2023-09-15 10:35:21',"customer\_id":10, "price":2374},

{"order\_id":11, "order\_date":'2023-11-15 10:35:21',"customer\_id":1, "price":192300},

{"order\_id":12, "order\_date":'2023-22-15 10:35:21',"customer\_id": 2, "price":281727},

{"order\_id":13, "order\_date": '2023-30-15 10:35:21',"customer\_id":3, "price":36457},

{"order\_id":14, "order\_date":'2023-21-15 10:35:21',"customer\_id":4,"price": 20392},

{"order\_id":15, "order\_date":'2023-14-15 10:35:21',"customer\_id":5,"price": 2123},

{"order\_id":16, "order\_date": '2023-28-15 10:35:21',"customer\_id": 6,"price":2189},

{"order\_id":17, "order\_date":'2023-19-15 10:35:21',"customer\_id":7, "price":12000},

{"order\_id":18, "order\_date":'2023-29-15 10:35:21',"customer\_id":8,"price": 12393},

{"order\_id":19, "order\_date": '2023-10-15 10:35:21',"customer\_id":9, "price":12839},

{"order\_id":20, "order\_date":'2023-10-15 10:35:21',"customer\_id":10, "price":2374}

])

import pandas as pd

pd.DataFrame(list(users.find()))

client = MongoClient ('mongodb://localhost:27017/')

order\_item = db['ecommerce']

users = db["order\_item"]

order\_item.insert\_many([

{"order\_id":1,"products\_id": 1,"stock\_quantity": 1, "total\_amount":8,"quantity": 234.991},

{"order\_id":2, "products\_id":2,"stock\_quantity": 2,"total\_amount": 11,"quantity": 4563.999},

{"order\_id":3,"products\_id": 3,"stock\_quantity": 3,"total\_amount": 5, "quantity": 897.991},

{"order\_id":4, "products\_id":4, "stock\_quantity":4,"total\_amount": 1, "quantity":789.992},

{"order\_id":5, "products\_id":5,"stock\_quantity": 5,"total\_amount": 8, "quantity":980.996},

{"order\_id":6,"products\_id": 6,"stock\_quantity": 6,"total\_amount": 5,"quantity": 234.999},

{"order\_id":7, "products\_id":7, "stock\_quantity":7,"total\_amount":8, "quantity":345.991},

{"order\_id":8, "products\_id":8, "stock\_quantity":8,"total\_amount": 10, "quantity":2345.9919},

{"order\_id":9,"products\_id": 9,"stock\_quantity":9,"total\_amount": 23,"quantity": 123.9912},

{"order\_id":10,"products\_id":10,"stock\_quantity":10 ,"total\_amount":20, "quantity":23419.929},

{"order\_id":11,"products\_id": 11,"stock\_quantity" :11,"total\_amount": 8, "quantity":234.991},

{"order\_id":12, "products\_id":12, "stock\_quantity":12,"total\_amount": 11,"quantity": 4563.99},

{"order\_id":13, "products\_id":13, "stock\_quantity":13,"total\_amount": 5, "quantity":897.991},

{"order\_id":14,"products\_id": 14,"stock\_quantity": 14,"total\_amount": 1, "quantity":789.92},

{"order\_id":15,"products\_id": 15, "stock\_quantity":15,"total\_amount": 8,"quantity": 980.96},

{"order\_id":16, "products\_id":16, "stock\_quantity": 16,"total\_amount":5,"quantity": 234.99},

{"order\_id":17,"products\_id": 17, "stock\_quantity":17,"total\_amount":12, "quantity":345.91},

{"order\_id":18, "products\_id":18, "stock\_quantity":18, "total\_amount":10, "quantity":2345.19},

{"order\_id":19,"products\_id": 19, "stock\_quantity":19,"total\_amount": 23, "quantity":123.12},

{"order\_id":20,"products\_id":20, "stock\_quantity":20,"total\_amount":20 ,"quantity":23419.129}

])