

Hussien Tarek

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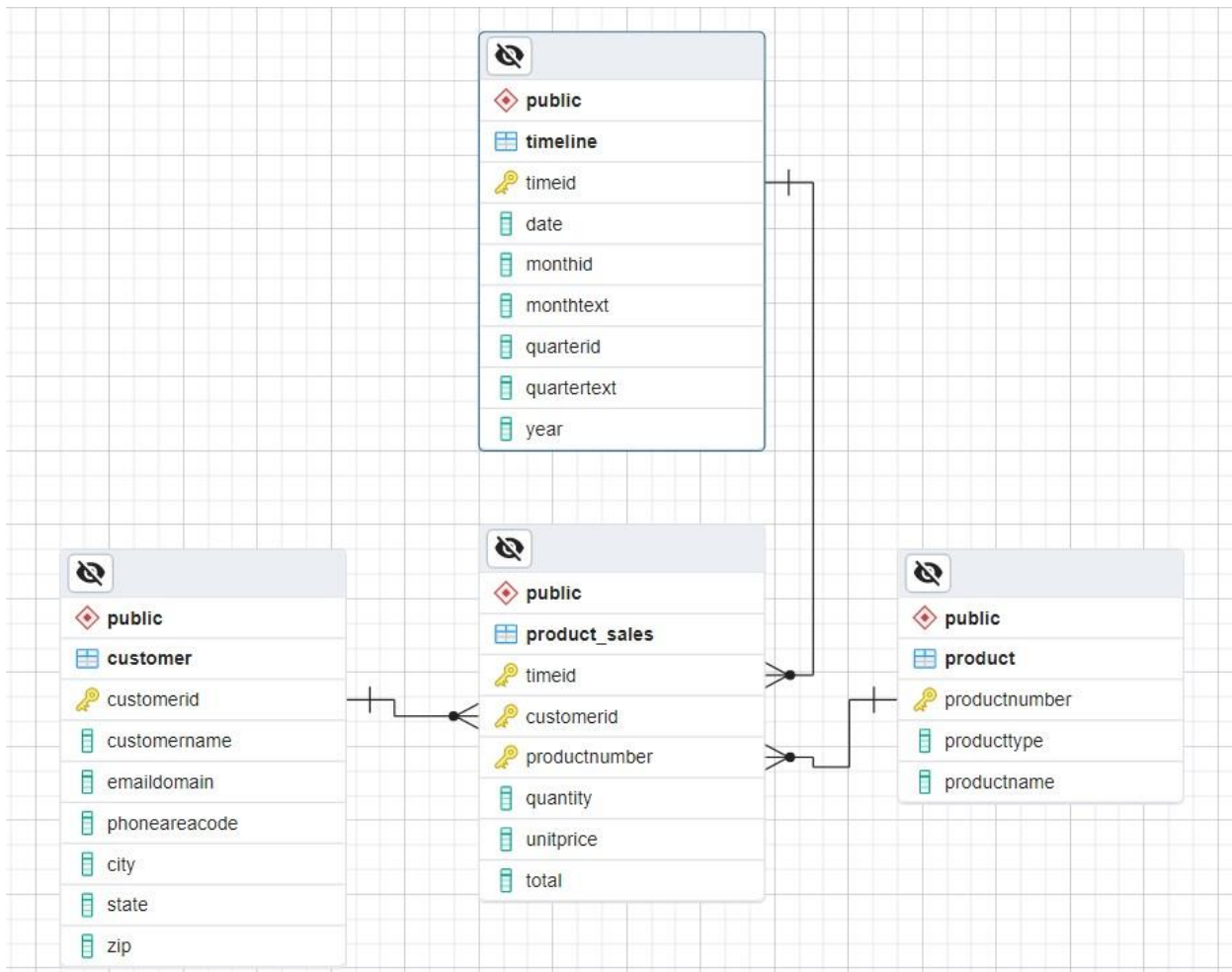
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Part 2 (Data Warehousing & OLAP):

(Note: we used Postgres SQL)

Question (1):

Data Base Star Schema



Question (2):

Part a):

RESULTS				
	customerid	customername	quantity	total
1	4	Baker, Susan	1	24.95
2	4	Baker, Susan	1	14.95
3	4	Baker, Susan	1	24.95
4	6	Foxtrot, Kathy	1	24.95
5	6	Foxtrot, Kathy	1	9.99
6	6	Foxtrot, Kathy	1	14.95
7	6	Foxtrot, Kathy	1	19.95
8	6	Foxtrot, Kathy	1	24.95
9	7	George, Sally	1	24.95
10	7	George, Sally	1	24.95
11	7	George, Sally	1	19.95
12	7	George, Sally	1	24.95
13	9	Pearson, Bobbi	1	24.95
14	9	Pearson, Bobbi	1	7.99
15	9	Pearson, Bobbi	1	14.95
16	11	Tyler, Jenny	2	19.98
17	11	Tyler, Jenny	2	39.90
18	11	Tyler, Jenny	2	49.90
19	1	Jacobs, Nancy	1	24.95
20	1	Jacobs, Nancy	1	7.99
21	1	Jacobs, Nancy	1	14.95
22	5	Eagleton, Sam	1	24.95
23	5	Eagleton, Sam	1	7.99
24	5	Eagleton, Sam	1	14.95
25	3	Able, Ralph	1	24.95

Part b):

RESULTS			
	customerid	customername	averageorder
1	11	Tyler, Jenny	31.1320000000...
2	7	George, Sally	23.9500000000...

Part c):

RESULTS							
	customerid	customername	productnumber	productname	date	End Date	days_between_product_sales
1	1	Jacobs, Nancy	VK001	Kitchen Remodeling Basics	2018-04-08	NULL	NULL
2	1	Jacobs, Nancy	VB001	Kitchen Remodeling Basics	2018-04-08	2018-04-08	0
3	1	Jacobs, Nancy	BK001	Kitchen Remodeling Basics For Everyone	2018-04-08	2018-04-08	0
4	3	Able, Ralph	VB001	Kitchen Remodeling Basics	2017-10-15	NULL	NULL
5	3	Able, Ralph	VK001	Kitchen Remodeling Basics	2017-10-15	2017-10-15	0
6	3	Able, Ralph	BK001	Kitchen Remodeling Basics For Everyone	2018-04-23	2017-10-15	190
7	3	Able, Ralph	VK001	Kitchen Remodeling Basics	2018-06-05	2018-04-23	43
8	3	Able, Ralph	VB001	Kitchen Remodeling Basics	2018-06-05	2018-06-05	0
9	3	Able, Ralph	VB002	Advanced Kitchen Remodeling I	2018-06-05	2018-06-05	0
10	3	Able, Ralph	BK002	Advanced Kitchen Remodeling For Everyone	2018-06-05	2018-06-05	0
11	3	Able, Ralph	VK002	Advanced Kitchen Remodeling	2018-06-05	2018-06-05	0
12	4	Baker, Susan	VB001	Kitchen Remodeling Basics	2017-10-25	NULL	NULL
13	4	Baker, Susan	BK001	Kitchen Remodeling Basics For Everyone	2017-10-25	2017-10-25	0
14	4	Baker, Susan	VK001	Kitchen Remodeling Basics	2017-10-25	2017-10-25	0
15	4	Baker, Susan	VK004	Heather Sweeney Seminar Live in Dallas on 25-OCT-16	2018-03-25	2017-10-25	151
16	4	Baker, Susan	BK002	Advanced Kitchen Remodeling For Everyone	2018-03-25	2018-03-25	0
17	4	Baker, Susan	VK002	Advanced Kitchen Remodeling	2018-03-25	2018-03-25	0
18	5	Eagleton, Sam	BK001	Kitchen Remodeling Basics For Everyone	2018-04-08	NULL	NULL
19	5	Eagleton, Sam	VK001	Kitchen Remodeling Basics	2018-04-08	2018-04-08	0
20	5	Eagleton, Sam	VB001	Kitchen Remodeling Basics	2018-04-08	2018-04-08	0
21	6	Foxtrot, Kathy	VB003	Kitchen Remodeling Dallas Style	2018-03-27	NULL	NULL
22	6	Foxtrot, Kathy	VK004	Heather Sweeney Seminar Live in Dallas on 25-OCT-16	2018-03-27	2018-03-27	0
23	6	Foxtrot, Kathy	VK003	Kitchen Remodeling Dallas Style	2018-03-27	2018-03-27	0
24	6	Foxtrot, Kathy	VK002	Advanced Kitchen Remodeling	2018-03-27	2018-03-27	0
25	6	Foxtrot, Kathy	BK002	Advanced Kitchen Remodeling For Everyone	2018-03-27	2018-03-27	0
26	6	Foxtrot, Kathy	VB003	Kitchen Remodeling Dallas Style	2018-03-27	2018-03-27	0

Part d):

RESULTS		
	quartertext	totalsales
1	Qtr3	95.78
2	Qtr2	542.78
3	Qtr1	302.33

Question (3):

Part a):

```
> print(Total.Rev.2yr_cont.per.off)
      Internet.Type
Offer      Cable      DSL Fiber Optic
None      554678.24 1235674.43 2075682.41
Offer A    349750.71 720759.09 1474862.52
Offer B    164188.21 362671.78  473681.65
Offer C     10360.26  34148.92   80196.94
Offer D      5443.22   5592.51   22464.25
Offer E      1684.86   3019.54    6134.10
```

Part b):

```
> print(paste(total_rev_precent,"%"))
[1] "0.451160910747686 %"
```