

LITERASI DIGITAL

“Dasar Data Modeling”



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Golongan C

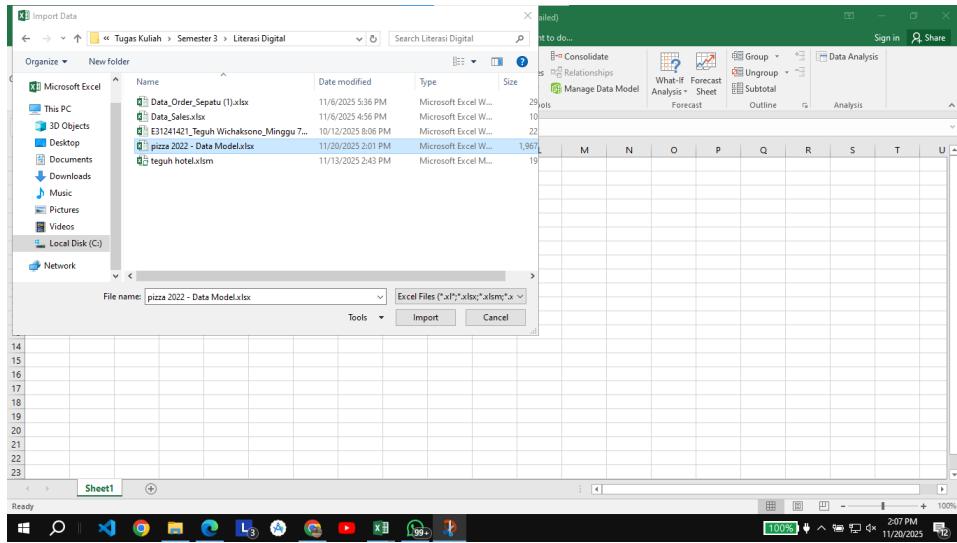
PROGRAM STUDY MANAJEMEN INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGRI JEMBER

2025

1. Ngambil data yang sudah di download di drive



2. Transform Data

order_details_id	order_id	pizza_id	quantity	sales_amount
1	1	1 hawaiian_m	1	66250
2	2	2 classic_dlx_m	1	80000
3	3	2 five_cheese_l	1	92500
4	4	2 ital_supr_l	1	103750
5	5	2 mexicana_m	1	80000
6	6	2 thai_ckn_l	1	103750
7	7	3 ital_supr_m	1	82500
8	8	3 prsic_ariga_l	1	103750
9	9	4 ital_supr_m	1	82500
10	10	5 ital_supr_m	1	82500
11	11	6 bbq_ckn_s	1	63750
12	12	6 the_greek_s	1	60000
13	13	7 spinach_supr_s	1	62500
14	14	8 spinach_supr_s	1	62500
15	15	9 classic_dlx_s	1	60000
16	16	9 green_garden_s	1	60000
17	17	9 ital_cpolio_l	1	102500
18	9	ital suor l	1	103750

3. Pada tabel orders kelebihan colom maka kita harus menghapus terlebih dahulu

Sebelum

order_id	date	time	Column4
13	1/1/2022	12/31/1899 1:11:55 PM	null
14	1/1/2022	12/31/1899 2:14:09 PM	null
15	1/1/2022	12/31/1899 3:33:00 PM	null
16	1/1/2022	12/31/1899 3:34:07 PM	null
17	1/1/2022	12/31/1899 3:53:00 PM	null
18	1/1/2022	12/31/1899 3:57:08 PM	null
19	1/1/2022	12/31/1899 3:59:09 PM	null
20	1/1/2022	12/31/1899 4:03:08 PM	null
21	1/1/2022	12/31/1899 4:14:29 PM	null
22	1/1/2022	12/31/1899 4:16:26 PM	null
23	1/1/2022	12/31/1899 4:19:03 PM	null
24	1/1/2022	12/31/1899 4:23:01 PM	null
25	1/1/2022	12/31/1899 4:44:44 PM	null
26	1/1/2022	12/31/1899 4:54:26 PM	null
27	1/1/2022	12/31/1899 4:55:17 PM	null
28	1/1/2022	12/31/1899 4:55:46 PM	null
29	1/1/2022	12/31/1899 4:41:01 PM	null
30	1/1/2022	12/31/1899 3:41:25 PM	null

Sesudah

The screenshot shows the Power Query Editor interface with the 'orders' query selected. The 'Applied Steps' pane on the right lists 'Removed Columns'.

order_id	date	time
1	1/1/2002	12/31/1899 11:38:36 AM
2	1/1/2002	12/31/1899 11:57:40 AM
3	1/1/2002	12/31/1899 12:12:26 PM
4	1/1/2002	12/31/1899 12:16:31 PM
5	1/1/2002	12/31/1899 12:29:35 PM
6	1/1/2002	12/31/1899 12:30:37 PM
7	1/1/2002	12/31/1899 12:51:37 PM
8	1/1/2002	12/31/1899 12:52:01 PM
9	1/1/2002	12/31/1899 12:52:01 PM
10	1/1/2002	12/31/1899 1:00:15 PM
11	1/1/2002	12/31/1899 1:00:59 PM
12	1/1/2002	12/31/1899 1:04:41 PM
13	1/1/2002	12/31/1899 1:14:55 PM
14	1/1/2002	12/31/1899 1:14:19 PM
15	1/1/2002	12/31/1899 1:33:00 PM
16	1/1/2002	12/31/1899 1:34:07 PM
17	1/1/2002	12/31/1899 1:53:00 PM
18	1/1/2002	12/31/1899 1:57:08 PM

4. Pada tabel pizza type colom masih salah sehingga kita perlu merubah kolom tersebut dengan memilih use first row as Header

Sebelum

The screenshot shows the Power Query Editor interface with the 'pizza_type' query selected. The 'Applied Steps' pane on the right lists 'Changed Type'.

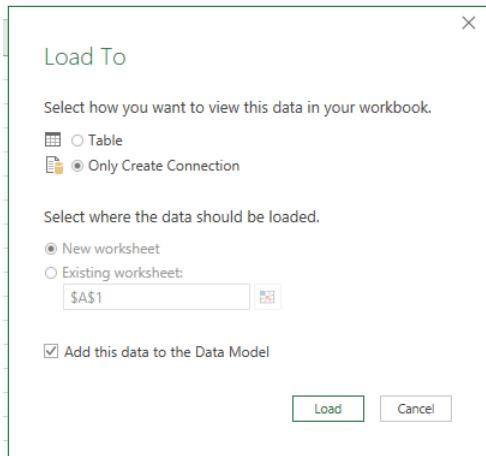
Column1	Column2	Column3	Column4
1	pizza_type_id	name	category
2	bbq_ckn	The Barbecue Chicken Pizza	Chicken
3	cali_ckn	The California Chicken Pizza	Chicken
4	cfn_alfredo	The Chicken Alfredo Pizza	Chicken
5	ckn_pesto	The Chicken Pesto Pizza	Chicken
6	southw_ckn	The Southwest Chicken Pizza	Chicken
7	thai_ckn	The Thai Chicken Pizza	Chicken
8	big_meat	The Big Meat Pizza	Classic
9	classic_dx	The Classic Deluxe Pizza	Classic
10	hawaiian	The Hawaiian Pizza	Classic
11	ital_cpcilio	The Italian Capriccio Pizza	Classic

Sesudah

The screenshot shows the Power Query Editor interface with the 'pizza_type' query selected. The 'Applied Steps' pane on the right lists 'Changed Type1'.

name	category	ingredients
The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppers
The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeños
The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms
The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach
The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onion
The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers
The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo
The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers
The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
The Italian Capriccio Pizza	Classic	Capriccio, Red Peppers, Tomatoes, Goat Cheese
The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives
The Pepperoni, Mushroom, and Peppers Pizza	Classic	Pepperoni, Mushroom, and Peppers
The Pepperoni Pizza	Classic	Mozzarella Cheese, Pepperoni
The Greek Pizza	Classic	Kalamata Olives, Feta Cheese, Tomato
The Brie Carre Pizza	Supreme	Brie Carre Cheese, Prosciutto, Tomato
The Calabrese Pizza	Supreme	'Nduja Salami, Pancetta, Tomato
The Italian Supreme Pizza	Supreme	Calabrese Salami, Capicolla, Tomato

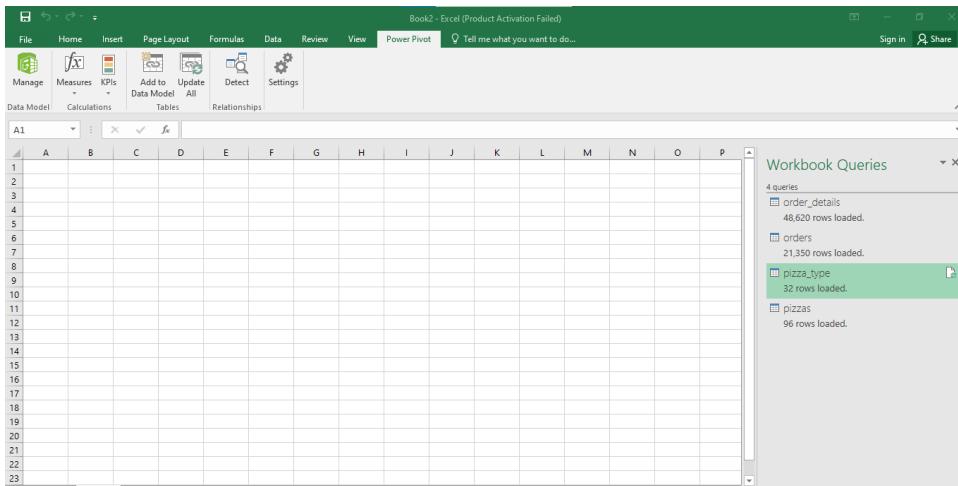
- 5. Jika sudah benar semua tabel maka pilih close & load to, terus Pilih only create connection dan centang add this data the data model**



Hasil dari import data

The 'Workbook Queries' pane displays the following information:
4 queries
order_details: 48,620 rows loaded.
orders: 21,350 rows loaded.
pizza_type: 32 rows loaded.
pizzas: 96 rows loaded.

- 6. Terus pilih power pivot dan manage**

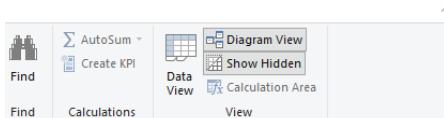


7. Hasil data dari modeling di power pivot

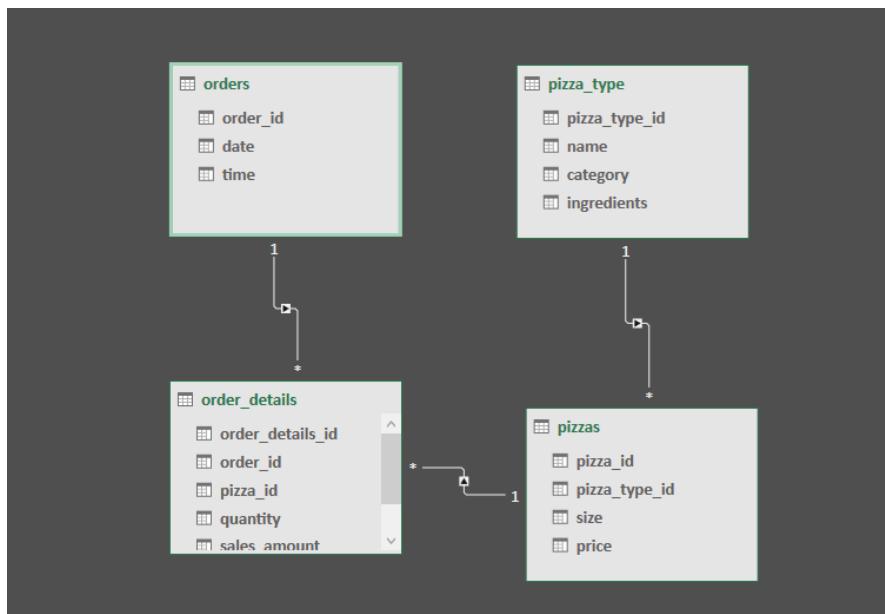
Power Pivot for Excel - Book2

order_details_id	order_id	pizza_id	quantity	sales_amount	Add Column
1	6	2 thai_ckn_l	1	103750	
2	42	16 thai_ckn_l	1	103750	
3	68	25 thai_ckn_l	1	103750	
4	76	30 thai_ckn_l	1	103750	
5	89	35 thai_ckn_l	1	103750	
6	131	54 thai_ckn_l	1	103750	
7	164	71 thai_ckn_l	1	103750	
8	188	79 thai_ckn_l	1	103750	
9	191	81 thai_ckn_l	1	103750	
10	209	89 thai_ckn_l	1	103750	
11	340	143 thai_ckn_l	1	103750	
12	375	156 thai_ckn_l	1	103750	
13	408	172 thai_ckn_l	1	103750	
14	420	177 thai_ckn_l	1	103750	
15	439	186 thai_ckn_l	1	103750	
16	526	224 thai_ckn_l	1	103750	
17	558	242 thai_ckn_l	1	103750	
18	572	248 thai_ckn_l	1	103750	
19	610	270 thai_ckn_l	1	103750	

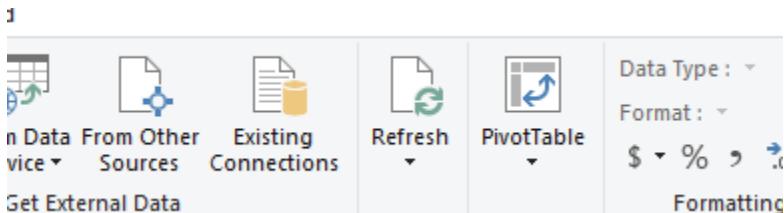
8. Kemudian pilih Diagram View



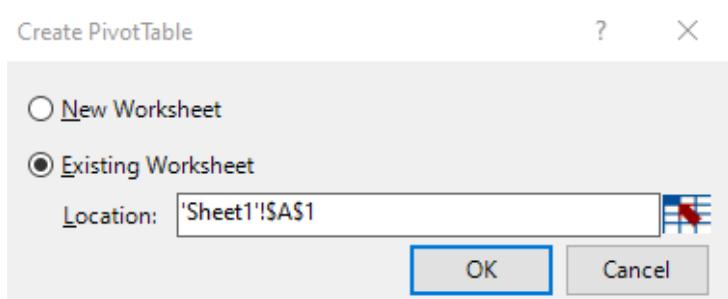
- hubungkan tabel orders (order id) ke tabel orders_detail (order_id), tabel order_detail (pizza_id) ke tabel pizzas (pizza_id), tabel pizzas (pizza_type_id) ke tabel pizza_type (pizza_type_id)



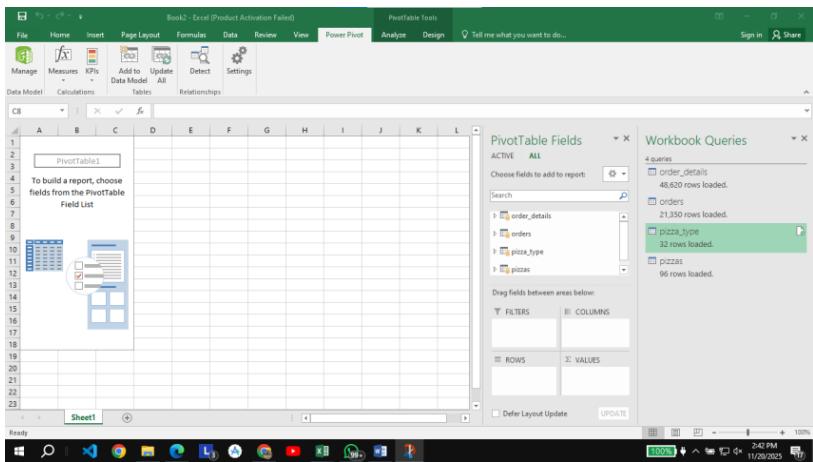
10. Klik Pivot Table



Lalu klik ok



11. Hasil dari pivot dan modeling



12. Hasil tabel pivot yang berhasil di buat

