#### PORTOFOLIO KEAHLIAN MS EXCEL

Keahlian yang saya miliki berupa: data formatting and cleansing; conditional if/ifs; conditional formatting; Join multisheet (vlookup, offset-match); Pivot Table; What if Analysis

Beberapa penerapannya sebagai berikut.

### A. PENDAHULUAN

Data yang digunakan adalah SUPORSTORE DATA (Akses data: <a href="https://github.com/ainunmardliyah/Excel.git">https://github.com/ainunmardliyah/Excel.git</a>) terdiri dari beberapa sheet:

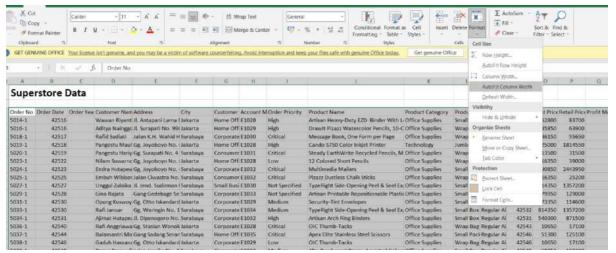
- 1. Description: penjelasan header kolom/konteks data (Metadata)
- 2. Data: data penjualan
- 3. Employee: data pegawai
- 4. Helper: table bantu untuk ketentuan dan biaya jasa pengiriman
- 5. Pivot Location: Penerapan pivot table pada data penjualan berdasarkan kota
- 6. Pivot Customer and Product Type: Penjualan produk per kategori berdasarkan tipe customer
- 7. What If Scenario: Data yang digunakan untuk menggunakan tools what if analysis, yakni scenario manager
- 8. Scenario Manager Summary: Hasil ringkasan dari sheet what if scenario/scenario manager
- 9. What If Goal Seek: Penerapan tools what if, yakni goal seek

### Bagian-bagian dalam portofolio:

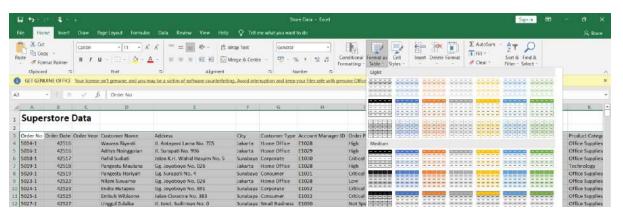
- A. Pendahuluan: penjelasan tentang data yang digunakan
- B. Tahap awal: pembersihan data awal
- C. Cases: kasus-kasus dari penerapan rumus dari memformat data, penggunaan rumus agregasi sederhana, mengekstrak data hingga menampilkan/visualisasi data
- Case: Memformat data dan mengekstrak data tahun
- Case: Menghitung profit, diskon, total pembelian sebelum diskon, ongkir dan biaya akhir
- Case: Employee Database (Ekstrak data seperti left, mid, right)
- Case: Cari nama account manager (di sheet employee) dari account manager ID (di sheet data). Rumus VLOOKUP
- Case: Praktik Pivot Table
- Case: Menggunakan rumus offset-match untuk mengisi shipping cost berdasarkan product container dan ship mode
- Case: What If Analysis Scenario Manager
- Case: Goal Seek (Misal menentukan profit tertentu dengan merubah beberapa variabel)

### **TAHAP AWAL**

1. Merapihkan data, yakni lebar kolom disesuaikan agar datanya terlihat jelas

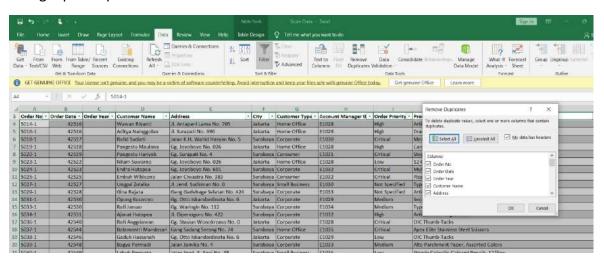


2. Buat jadi format table

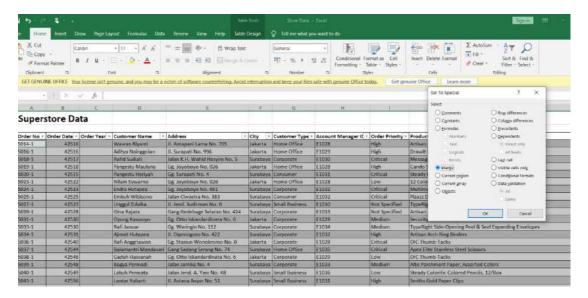


### 3. Bersihkan data

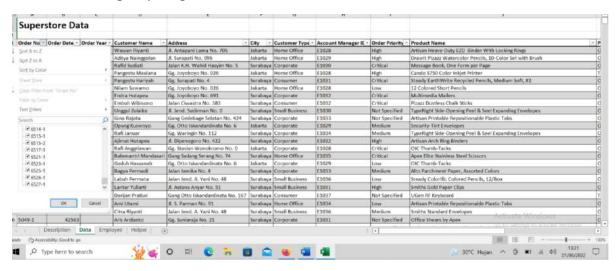
### Menghapus duplikat



Cari baris yang kosong, kecuali untuk kolom yang memang belum terisi atau perlu perhitungan



Atau bisa juga menggunakan dengan mengecek filter pada masing-masing kolom apakah ada item blank di bagian paling bawah

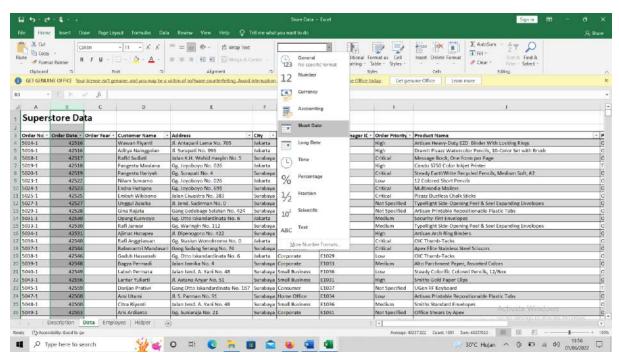


4. Isi data-data yang ada sesuai case yang diperlukan

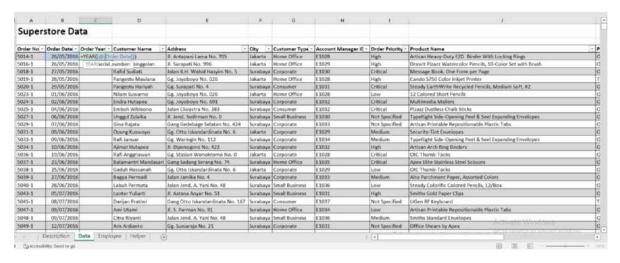
### **B. CASES**

### Case: Memformat data dan mengekstrak data tahun

1. Menformat data tanggal dari tipe general menjadi short date



2. Mengekstrak data tahun dari kolom Order Date

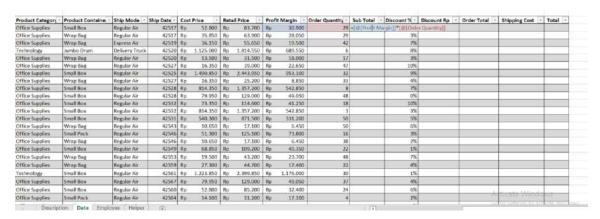


### Case: Menghitung profit, diskon, total pembelian sebelum diskon, ongkir dan biaya akhir

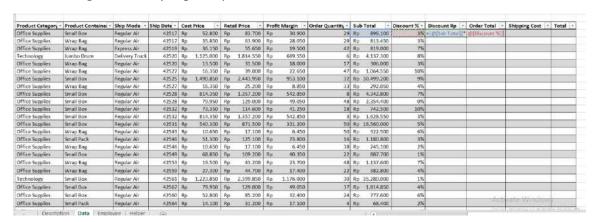
1. Masukkan formula pada kolom profit dengan cara mengurangi harga retail dengan harga beli. Format data jangan lupa disesuaikan



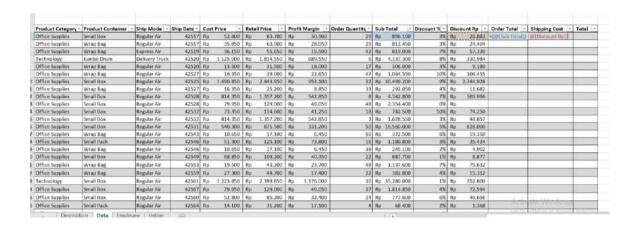
2. Masukkan formula pada kolom Sub Total dengan cara mengalikan harga retail dengan jumlah barang yang dibeli



3. Masukkan formula pada kolom Discount Rp dengan cara mengalikan harga sub total dengan diskon yang didapat

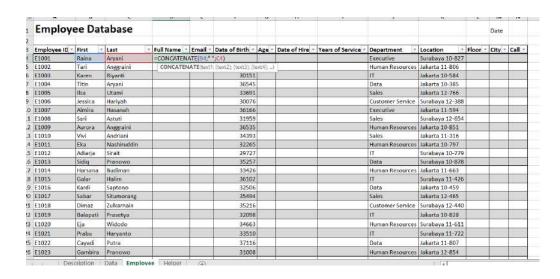


4. Masukkan formula pada kolom Order Total dengan cara mengurangi harga sub total dengan diskon



## Case: Employee Database (Ekstrak data seperti left, mid, right)

- 1. Rapikan lebar data
- 2. Set sebagai table, biar otomatis keisinya
- **3. Case pertama menggabungkan nama dengan menggunakan concatenate,** jangan lupa karakter tambahan spasi.

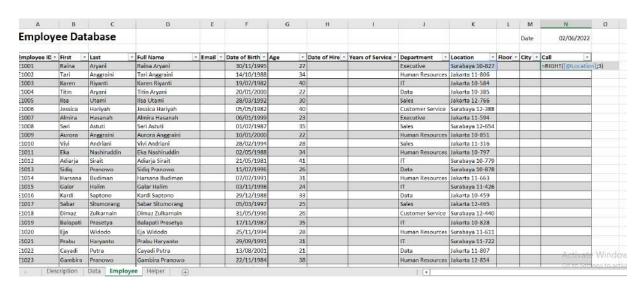


## 4. Case kedua mengisi kolom email

<b>Employ</b>	ee Dat	tabase										Date	02/06/202
			raina aryani e@mys	cill.co.id									
Employee ID	First	Last	- Full Name	Email	Date of Birth	Age -	Date of Hire	Years of Service *	Department v	Location -	Floor *	City	Call
E1001	Raina	Aryani	Raina Aryani	=LOWER(CONCATENA	TE[[@First];".";[@	Last];"_";"e@i	myskill.co.id*())		Executive	Surabaya 10-827	10	Surabaya	827
E1002	Tari	Anggraini	Tari Anggraini	tari.anggr CONCATENA	TE(text1; [text2]; [te	od3); [text4]; [tex	t5]; [text6];)		Human Resources	Jakarta 11-805	11	Jakarta	806
E1003	Karen	Riyanti	Karen Riyanti	karen.riyanti_	19/07/1982	40			IT	Jakarta 10-584	10	Jakarta	584
E1004	Titin	Aryani	Titin Aryani	titin.aryani_	20/01/2000	22			Data	Jakarta 10-385	10	Jakarta	385
E1005	lisa	Utami	Ilsa Utami	ilsa.utami_	28/03/1992	30			Sales	Jakarta 12-765	12	Jakarta	766
E1006	Jessica	Hariyah	Jessica Hariyah	jessica.hariyah_	05/05/1982	40			Customer Service	Surabaya 12-388	12	Surabaya	388
E1007	Almira	Hasanah	Almira Hasanah	almira.hasanah_	06/01/1999	23			Executive	Jakarta 11-594	11	Jakarta	594
E1008	Sari	Astuti	Sari Astuti	sari.astuti_	01/07/1987	35			Sales	Surabaya 12-654	12	Surabaya	654
E1.009	Aurora	Anggraini	Aurora Anggraini	aurora.anggraini_	10/01/2000	27			Human Resources	Jakarta 10-851	10	Jakarta	851
E1010	Vivi	Andriani	Vivi Andriani	vivi.andriani_	28/02/1994	28			Sales	Jakarta 11-316	11	Jakarta	316
E1011	Eka	Nashiruddin	Eka Nashiruddin	eka.nashiruddin_	02/05/1988	34			Human Resources	Jakarta 10-797	10	Jakarta	797
E1012	Adiarja	Sirait	Adiarja Sirait	adiarja.sirait_	21/05/1981				IT	Surabaya 10-779	10	Surabaya	779
E1013	Sidiq	Pranowo	Sidiq Pranowo	sidiq.pranowo_	11/07/1996	26			Data	Surabaya 10-878	10	Surabaya	878
E1014	Harsana	Budiman	Harsana Budiman	harsana.budiman_	07/07/1991	31			Human Resources	Jakarta 11-663	11	Jakarta	663
E1015	Galar	Halim	Galar Halim	galar.halim_	03/11/1998	24			ıï	Surabaya 11-426	11	Surabaya	426
E1016	Kardi	Saptono	Kardi Saptono	kardi.saptono_	29/12/1988	33			Data	Jakarta 10-459	10	Jakarta	459
E1017	Sabar	Situmorang	Sabar Situmorang	sabar.situmorang_	05/03/1997	25			Sales	Jakarta 12-465	12	Jakarta	465
E1018	Dimaz	Zulkarnain	Dimaz Zulkarnain	dimaz.zulkarnain_	31/05/1996	26			Customer Service	Surabaya 12-440	12	Surabaya	440
E1019	Belapati	Prasetya	Balapati Prasetya	balapati.prasetya_	17/11/1987	35			IT	Jakarta 10-828	10	Jakarta	828
E1020	Eja	Widedo	Eja Widodo	eja.widodo_	25/11/1994	28			Human Resources	Surabaya 11-611	11	Surabaya	611
E1021	Prabu	Haryanto	Prabu Haryanto	prabu.haryanto_	29/09/1991	. 31			iT .	Surabaya 11-722	11	Surabaya	722
E1022	Cayadi	Putra	Cayadi Putra	cayadi.putra_	13/08/2001	21			Data	Jakarta 11-807	11	Jakarta	807
E1023	Gambira	Pranowo	Gambira Pranowo	gambira.pranowo_	22/11/1984	38			Human Resources	Jakarta 12-854	12	Jakarta	854
Des	scription	Data Emplo	yee Helper (4)		1 2 2			4 (		J		LUID TO SET	Chairman S

ketig	Case	3 r	mendapatkan		usia di		ll ,	kolom			age		
e Database	Emplo						V.				Date	02/0	
First + Last	Employee I	+ Full Name	* Email *	Date of Birth -	Age -	Date of Hire	Years of Service	Department *	Location *	Floor *	City -	Call	
Raina Aryani	E1001	Raina Aryani		30/11/1995	=YEARFRAC(	Date of Birth	II:SNS1)	Executive	Surabaya 10-827				
Tari Anggraini	E1002	Tari Anggraini		14/10/1988	YEARFRAC(	tart_date; end_da	ate; [basis])	Human Resources	Jakarta 11-806				
Karen Riyanti	E1003	Karen Riyanti		19/07/1982	40		100	IT	Jakarta 10-584				
Fitin Aryani	E1004	Titin Aryani		20/01/2000	22			Data	Jakarta 10-385				
ilsa Utami	E1005	Ilsa Utami		28/03/1992	30			Sales	Jakarta 12-766				
lessica Hariyah	E1006	Jessica Hariyah		05/05/1982	40			Customer Service	Surabaya 12-388				
Almira Hasanah	E1007	Almira Hasanah		06/01/1999	23			Executive	Jakarta 11-594				
Sari Astuti	E1008	Sari Astuti		01/07/1987	35			Sales	Surabaya 12-654				
Aurora Anggraini	E1009	Aurora Anggraini		10/01/2000	22			Human Resources	Jakarta 10-851				
Vivi Andriani	E1010	Vivi Andriani		28/02/1994	28			Sales	Jakarta 11-316				
Eka Nashiruddin	E1011	Eka Nashiruddin		02/05/1988	34			Human Resources	Jakarta 10-797	J. J			
Adiarja Sirait	E1012	Adiarja Sirait		21/05/1981	41			IT	Surabaya 10-779				
Sidiq Pranowo	E1013	Sidiq Pranowo		11/07/1996	26			Data	Surabaya 10-878				
Harsana Budiman	E1014	Harsana Budiman	i	07/07/1991	31			Human Resources	Jakarta 11-663				
Galar Halim	E1015	Galar Halim		03/11/1998	24			IT	Surabaya 11-426				
Kardi Saptono	E1016	Kardi Saptono		29/12/1988	33			Data	Jakarta 10-459				
Sabar Situmorang	E1017	Sabar Situmorang		05/03/1997	25			Sales	Jakarta 12-465				
Dimaz Zulkarnain	E1018	Dimaz Zulkamain		31/05/1996	26			Customer Service	Surabaya 12-440				
Balapati Prasetya	E1019	Balapati Prasetya		17/11/1987	35			fT.	Jakarta 10-828				
Eja Widodo	E1020	Eja Widodo	-	25/11/1994	28			Human Resources	Surabaya 11-611				
Prabu Harvanto	E1021	Prabu Haryanto		29/09/1991	31			П	Surabaya 11-722				
Cavadi Putra	E1022	Cavadi Putra		13/08/2001	21			Data	Jakarta 11-807				
Gambira Pranowo	E1023	Gambira Pranowe	0	22/11/1984	38			Human Resources	Jakarta 12-854			As	
iption Data Emple	7777		•   •	22/11/1984	38			Human Resources	јакапта 12-854				

# 6. Case keempat mengekstrak atau memisalkan data di kolom Location untuk kolom Floor, City dan Call



Employ	ee Dat	abase										Date	02/06/2022	
mployee ID =	First -	Last	Full Name	- Email -	Date of Birth	Age	Date of Hire	Years of Service	Department *	Location -	Floor	City	Call -	
1001	Raina	Aryani	Raina Aryani		30/11/1995	27			Executive	Surabaya 10-827		=LEFT( @L	ocation);FIND	("": @Location  -1
1002	Tari	Anggraini	Tari Anggraini		14/10/1988	34			Human Resources	Jakarta 11-806			806	
1003	Karen	Riyanti	Karen Riyanti		19/07/1982	40			IT	Jakarta 10-584			584	
1004	Titin	Aryani	Titin Aryani		20/01/2000	22			Data	Jakarta 10-385			385	
1005	lisa	Utami	Ilsa Utami		28/03/1992	30			Sales	Jakarta 12-766		1	766	
1006	Jessica	Hariyah	Jessica Hariyah		05/05/1982	40			Customer Service	Surabaya 12-388			388	
1007	Almira	Hasanah	Almira Hasanah		06/01/1999	23			Executive	Jakarta 11-594			594	
1008	Sari	Astuti	Sari Astuti		01/07/1987	35			Sales	Surabaya 12-654			654	
1009	Aurora	Anggraini	Aurora Anggraini		10/01/2000	22			Human Resources	Jakarta 10-851			851	
1010	Vivi	Andriani	Vivi Andriani		28/02/1994	28	8		Sales	Jakarta 11-316			316	
1011	Eka	Nashiruddin	Eka Nashiruddin		02/05/1988	34			Human Resources	Jakarta 10-797		U	797	
1012	Adiarja	Sirait	Adiarja Sirait		21/05/1981	41			П	Surabaya 10-779			779	
1013	Sidiq	Pranowo	Sidiq Pranowo		11/07/1996	26			Data	Surabaya 10-878			878	
1014	Harsana	Budiman	Harsana Budiman		07/07/1991	31			Human Resources	Jakarta 11-663			663	
1015	Galar	Halim	Galar Halim		03/11/1998	24			IT	Surabaya 11-426		ŢŢ,	426	
1016	Kardi	Saptono	Kardi Saptono		29/12/1988				Data	Jakarta 10-459			459	
1017	Sabar	Situmorang	Sabar Situmorang		05/03/1997	25			Sales	Jakarta 12-465			465	
1018	Dimaz	Zulkarnain	Dimaz Zulkarnain		31/05/1996	26	5		Customer Service	Surabaya 12-440			440	
1019	Balapati	Prasetya	Balapati Prasetya		17/11/1987	35			IT	Jakarta 10-828			828	
1020	Eja	Widedo	Eja Widodo		25/11/1994	28			Human Resources	Surabaya 11-611			611	
1021	Prabu	Haryanto	Prabu Haryanto		29/09/1991	31			IT	Surabaya 11-722			722	
1022	Cayadi	Putra	Cayadi Putra		13/08/2001	21			Data	Jakarta 11-807			807	
1023	Gambira	Pranowo	Gambira Pranowo		22/11/1984	36	3		Human Resources	Jakarta 12-854		1	854	te Windows
Des	cription	Data Employ	ee Helper (+)	10					1 (1)	1		1	1, 581650	Ittines to activate

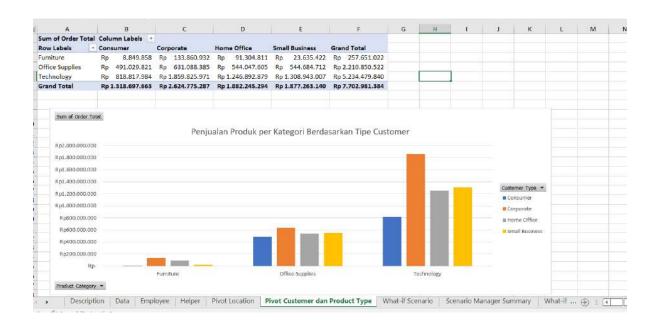
abase										Date	02/06/2022				
Last	- Full Name	· Email ·	Date of Birth	Age -	Date of Hire	Years of Service	Department *	Location *	Floor *	City	Cell -				
Aryani	Raina Aryani		30/11/1995	27	2		Executive	Surabaya 10-827	=MID(	Discation];F	IND(" "; @to	cation])+1;	FIND("-";	@Locatio	m
Anggraini	Tari Anggraini		14/10/1988	34			Human Resources	Jakarta 11-806	FIND("	:[@Location	1)-1)				
Riyanti	Karen Riyanti		19/07/1982	40	I		IT	Jakarta 10-584	1 MIDIT	ext; start_num;	num chars)				
Aryani	Titin Aryani		20/01/2000	22			Data	Jakarta 10-385	10-385	Jakarta	385				
Utami	Ilsa Utami		28/03/1992	30			Sales	Jakarta 12-766	12-766	Jakarta	766				
Hariyah	Jessica Hariyah		05/05/1982	40			Customer Service	Surabaya 12-388	12-388	Surabaya	388				
Hasanah	Almira Hasanah		06/01/1999	23			Executive	Jakarta 11-594	11-594	Jakarta	594				
Astuti	Sari Astuti		01/07/1987	35	į.		Sales	Surabaya 12-654	12-654	Surabaya	654				
Anggraini	Aurora Anggraini		10/01/2000	22			Human Resources	Jakarta 10-851	10-851	Jakarta	851				
Andriani	Vivi Andriani	-	28/02/1994	28			Sales	Jakarta 11-316	11-316	Jakarta	316				
Nashiruddin	Eka Nashiruddin		02/05/1988	34			Human Resources	Jakarta 10-797	10-797	Jakarta	797				
Sirait	Adiarja Sirait	-	21/05/1981	41			IT	Surabaya 10-779	10-779	Surabaya	779				
Pranowo	Sidiq Pranowo		11/07/1996	26			Data	Surabaya 10-878	10-878	Surabaya	878				
Budiman	Harsana Budiman	1	07/07/1991	31			Human Resources	Jakarta 11-663	11-663	Jakarta	663				
Halim	Galar Halim		03/11/1998	24			IT	Surabaya 11-426	11-426	Surabaya	426				
Saptono	Kardi Saptono		29/12/1988	33			Data	Jakarta 10-459	10-459	Jakarta	459				
Situmorang	Sabar Situmorang		05/03/1997	25			Sales	Jakarta 12-465	12-465	Jakarta	465				
Zulkarnain	Dimaz Zulkarnain		31/05/1996	26			Customer Service	Surabaya 12-440	12-440	Surabaya	440				
Prasetya	Balapati Prasetya		17/11/1987	35			IT	Jakarta 10-828	10-828	Jakarta	828				
Widodo	Eja Widodo		25/11/1994	28			Human Resources	Surabaya 11-611	11-611	Surabaya	611				
Haryanto	Prabu Harvanto		29/09/1991	31			IT	Surabaya 11-722	11-722	Surabaya	722				
Putra	Cavadi Putra	1	13/08/2001				Data	Jakarta 11-807	-	-	007				
Pranowo	Gambira Pranowo						-				854				
Data Employ	ree Helper   (4)	1				1	1.11				AST IT SE	etings teck	relogite W	Indexes	
	Aryani Angayaini Riyanti Angayaini Riyanti Aryani Utami Hariyah Hasanah Astuti Angaraini Andriani Angaraini Andriani Nashiruddin Sirait Pranowo Budiman Halim Saptono Situmorang Zulkarnain Prasotya Widodo Haryanto Putro Pranowo	Aryani Roina Aryani Angaraini Tari Anggraini Riyanti Karen Riyanti Aryani Titin Aryani Utami Ilsa Utami Hariyah Jessica Hariyah Hasanah Almire Hasanah Astuti Sari Astuti Anggraini Aurora Anggraini Aurora Anggraini Andriani Vivi Andriani Sirait Alaira Sirait Prancwo Sidiq Prancwo Budiman Harsana Budiman Halim Galar Halim Galar Halim Saptono Situmorang Sabor Situmorang Zulkarnain Dimaz Zulkarnain Prasetya Widodo Eja Widodo Haryanto Prabu Haryanto Putra Coyadi Putra Prancwo Gambira Prancwo	Aryani Raina Aryani Anggraini Tari Anggraini Riyanti Karen Riyanti Aryani Titin Aryani Utami Ifsa Utami Hariyah Jessica Hariyah Hasanah Almire Hasanah Astuti Sari Astuti Anggraini Aurora Anggraini Andriani Vivi Andriani Nashiruddin Sirait Alaini Sirait Pranowo Budiman Harsana Budiman Halim Galar Halim Saptono Situmorang Sabor Situmorang Zulkarnain Dimaz Zulkarnain Prasotya Widodo Eja Widodo Haryanto Prabu Haryanto Putra Coyadi Putra Pranowo Gambira Pranowo	Aryani         Raina Aryani         30/11/1995           Anggraini         Tari Anggraini         14/10/1988           Riyanti         19/07/1981         19/07/1981           Riyanti         19/07/1991         20/01/2000           Lami         Itsa Utami         28/03/1992           Harryani         Pesica Hariyah         05/05/1982           Hasanah         Almiris Hasanah         06/01/1999           Astuti         3ari Astuti         01/07/1931           Anggraini         Aurora Anggraini         10/01/2000           Andriani         Vi Andriani         28/02/1994           Ashrivodini         02/05/1988           Sirait         Adiopi Sirait         21/05/1981           Prancwo         Sidiq Pranowo         11/07/1996           Budiman         Harsana Budiman         07/07/1991           Halim         08/11/1998           Saptono         29/12/1983           Saptono         29/12/1983           Sulmorang         Sabar Situmorang         05/03/1997           Zulkarnain         31/05/1996           Widodo         25/11/1994           Haryanto         Prabu Haryanto         29/09/1991           Putro         Cayad Putra	Aryani         Roina Aryani         30/11/1995         27           Anggraini         Tari Anggraini         14/10/1988         34           Riyanti         14/10/1988         34           Aryani         Titin Aryani         20/01/2000         22           Lami         Ifsa Utami         28/03/1992         30           Hariyah         Jessica Hariyah         05/05/1982         40           Hasanah         Almira Hasanah         06/01/1999         23           Astuti         Sari Astuti         01/07/1987         35           Anggraini         Aurora Anggraini         10/01/2000         22           Andriani         Vil Andriani         28/02/1994         28           Nashiruddin         Eka Nashiruddin         02/05/1988         34           Aliarja Sirait         21/05/1981         41           Prancwo         Sidiq Pranowo         111/07/1996         26           Budiman         07/07/1991         31           Halim         08/11/1998         24           Saptono         Kardi Saptono         29/12/1988         33           Situmorang         Sabar Situmorang         05/03/1997         25           Zulkarmain         31/05/1996 </td <td>Aryani         Raina Aryani         30/11/1995         27           Anggraini         Tari Anggraini         14/10/1988         34           Riyanti         14/10/1988         34           Riyanti         19/07/1982         40           Aryani         Titin Aryani         20/01/2000         22           Utami         Ifsa Utami         28/03/1992         30           Hariyah         Jessica Hariyah         05/05/1982         40           Hasanah         Alfirira Hasanah         06/01/1999         23           Astuti         Sari Astuti         01/07/1987         35           Anggraini         Aurora Anggraini         10/01/2000         22           Andriani         Vivi Andriani         28/02/1994         28           Nashiruddin         02/05/1988         34           Sirait         Aliaja Sirait         21/05/1981         41           Prancwo         Sidiq Prancwo         11/07/1995         26           Budiman         Harsana Budiman         07/07/1991         31           Halim         08/11/1998         24           Saptono         Kardi Saptono         29/12/1988         33           Situmorang         Sabar Situmorang</td> <td>Aryani         Raina Aryani         30/11/1995         27           Anggraini         Tari Anggraini         14/10/1988         34           Riyanti         14/10/1988         34           Riyanti         19/07/1982         40           Aryani         Titin Aryani         20/01/2000         22           Utami         Ilsa Utami         28/03/1992         30           Hariyah         Jessica Hariyah         05/05/1982         40           Hasanah         Almiria Hasanah         06/01/1999         23           Astuti         Sari Astuti         01/07/1987         35           Anggraini         Aurora Anggraini         10/01/2000         22           Andriani         Vivi Andriani         28/02/1994         28           Nashiruddin         22/05/1988         34           Sirait         Alianja Sirait         21/05/1981         41           Prancwo         Sidiq Pranowo         11/07/1996         26           Budiman         07/07/1991         31         41           Hairm         Gallaman         07/07/1991         31           Halim         Gallaman         07/07/1991         31           Halim         08/11/1998</td> <td>Aryani         Raina Aryani         30/11/1995         27         Executive           Anggraini         Tari Anggraini         14/10/1988         34         Human Resources           Riyanti         13/07/1982         40         IT           Aryani         Titin Aryani         20/01/2000         22         Data           Utami         Ilsa Utami         28/03/1992         30         Sales           Harryah         Jesica Hariyah         05/05/1982         40         Customer Service           Hasanah         Almira Hasanah         06/01/1999         23         Executive           Astuti         01/07/1987         35         Sales           Anggraini         Aurora Anggraini         10/01/2000         22         Human Resources           Andriani         Vila Andriani         28/02/1994         28         Sales           Srait         Autionia Sirait         21/05/1988         34         Human Resources           Sirait         Adianja Sirait         21/05/1981         41         IT         IT           Pranowo         Sidiq Pranowo         11/07/1996         26         Data         Human Resources           Budiman         Harsana Budiman         07/07/1991         31<td>Aryani         Roina Aryani         30/11/1995         27         Executive         Surabaya 10-827           Anggraini         Tari Anggraini         14/10/1988         34         Human Resources Jakarta 11-806           Riyanti         19/07/1982         40         IT         Jakarta 10-888           Aryani         Titin Aryani         20/01/2000         22         Data         Jakarta 10-888           Aryani         Ifisa Utami         28/03/1992         30         Sales         Jakarta 10-888           Hariyah         Jessica Hariyah         05/05/1982         40         Customer Service         Surabaya 12-388           Hassanah         Almira Hasanah         06/01/1999         23         Executive         Lakarta 11-594           Astuti         Sari Astuti         01/07/1987         35         Sales         Surabaya 12-88           Anggraini         Aurora Anggraini         10/01/2000         22         thuman Resources         Jakarta 10-851           Andraini         Vivi Andriani         28/02/1994         28         Sales         Surabaya 10-799           Sirait         Alloria Sirait         21/05/1981         41         IT         Surabaya 10-779           Sirait         Adioria Sirait         21/05/1981</td><td>Aryani         Raina Aryani         30/11/1995         27         Executive         Surabaya 10-827         mID(I-Anggraini)         41/10/1982         34         Human Resources         Jakarta 11-806         RIND(III-N)           Riyanti         19/07/1982         40         IT         Jakarta 10-884         18/07/1982         40         IT         Jakarta 10-884         18/07/1982         40         Data         Jakarta 10-885         19/08/1982         Aryani         Titin Aryani         28/03/1992         30         Sales         Jakarta 10-885         19/08/1983         19/08/1983         19/08/1983         12-866         12-766</td><td>  Aryani</td><td>Aryani Raina Aryani 30/11/1995 27 Executive Surabaya 10-827 → MID(( □ tocation); HND( □ tocation) + Mignaria 1 − Aryani 1 − Tari Anggraini 1 − Aryani 1 − Aryani 1 − Aryani 1 − Aryani 20/01/2000 22 Data Jakarta 11-806   FIND( □ tocation) + Mignaria 1 − Aryani 1 − Aryani 20/01/2000 22 Data Jakarta 10-881   Midner staring num chars) 1 − Aryani 1 − Aryani 28/03/1992 30 Sales Jakarta 12-766   Jakarta 10-885   Jakarta 18-86   Aryani 1 − Aryani 1 − Aryani 28/03/1992 30 Sales Jakarta 12-766   Jakarta 18-766   Jakarta 19-766   Jakarta 18-766   Jakarta</td><td>Aryani Raina Aryani 30/11/1995 27 Executive Surabaya 10-827 ⇒ MID(( □ tocation); FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 10-881   MID(tocation) → 1.4 /10/1989   Jakarta 11-806   Jakarta 10-881   J</td><td>Aryani   Raina Aryani   30/11/1995   27   Executive   Surabaya 10-827   MID( ■ Gucation); HID( ■ Guca</td><td>Aryani   Raina Aryani   30/11/1995   27</td></td>	Aryani         Raina Aryani         30/11/1995         27           Anggraini         Tari Anggraini         14/10/1988         34           Riyanti         14/10/1988         34           Riyanti         19/07/1982         40           Aryani         Titin Aryani         20/01/2000         22           Utami         Ifsa Utami         28/03/1992         30           Hariyah         Jessica Hariyah         05/05/1982         40           Hasanah         Alfirira Hasanah         06/01/1999         23           Astuti         Sari Astuti         01/07/1987         35           Anggraini         Aurora Anggraini         10/01/2000         22           Andriani         Vivi Andriani         28/02/1994         28           Nashiruddin         02/05/1988         34           Sirait         Aliaja Sirait         21/05/1981         41           Prancwo         Sidiq Prancwo         11/07/1995         26           Budiman         Harsana Budiman         07/07/1991         31           Halim         08/11/1998         24           Saptono         Kardi Saptono         29/12/1988         33           Situmorang         Sabar Situmorang	Aryani         Raina Aryani         30/11/1995         27           Anggraini         Tari Anggraini         14/10/1988         34           Riyanti         14/10/1988         34           Riyanti         19/07/1982         40           Aryani         Titin Aryani         20/01/2000         22           Utami         Ilsa Utami         28/03/1992         30           Hariyah         Jessica Hariyah         05/05/1982         40           Hasanah         Almiria Hasanah         06/01/1999         23           Astuti         Sari Astuti         01/07/1987         35           Anggraini         Aurora Anggraini         10/01/2000         22           Andriani         Vivi Andriani         28/02/1994         28           Nashiruddin         22/05/1988         34           Sirait         Alianja Sirait         21/05/1981         41           Prancwo         Sidiq Pranowo         11/07/1996         26           Budiman         07/07/1991         31         41           Hairm         Gallaman         07/07/1991         31           Halim         Gallaman         07/07/1991         31           Halim         08/11/1998	Aryani         Raina Aryani         30/11/1995         27         Executive           Anggraini         Tari Anggraini         14/10/1988         34         Human Resources           Riyanti         13/07/1982         40         IT           Aryani         Titin Aryani         20/01/2000         22         Data           Utami         Ilsa Utami         28/03/1992         30         Sales           Harryah         Jesica Hariyah         05/05/1982         40         Customer Service           Hasanah         Almira Hasanah         06/01/1999         23         Executive           Astuti         01/07/1987         35         Sales           Anggraini         Aurora Anggraini         10/01/2000         22         Human Resources           Andriani         Vila Andriani         28/02/1994         28         Sales           Srait         Autionia Sirait         21/05/1988         34         Human Resources           Sirait         Adianja Sirait         21/05/1981         41         IT         IT           Pranowo         Sidiq Pranowo         11/07/1996         26         Data         Human Resources           Budiman         Harsana Budiman         07/07/1991         31 <td>Aryani         Roina Aryani         30/11/1995         27         Executive         Surabaya 10-827           Anggraini         Tari Anggraini         14/10/1988         34         Human Resources Jakarta 11-806           Riyanti         19/07/1982         40         IT         Jakarta 10-888           Aryani         Titin Aryani         20/01/2000         22         Data         Jakarta 10-888           Aryani         Ifisa Utami         28/03/1992         30         Sales         Jakarta 10-888           Hariyah         Jessica Hariyah         05/05/1982         40         Customer Service         Surabaya 12-388           Hassanah         Almira Hasanah         06/01/1999         23         Executive         Lakarta 11-594           Astuti         Sari Astuti         01/07/1987         35         Sales         Surabaya 12-88           Anggraini         Aurora Anggraini         10/01/2000         22         thuman Resources         Jakarta 10-851           Andraini         Vivi Andriani         28/02/1994         28         Sales         Surabaya 10-799           Sirait         Alloria Sirait         21/05/1981         41         IT         Surabaya 10-779           Sirait         Adioria Sirait         21/05/1981</td> <td>Aryani         Raina Aryani         30/11/1995         27         Executive         Surabaya 10-827         mID(I-Anggraini)         41/10/1982         34         Human Resources         Jakarta 11-806         RIND(III-N)           Riyanti         19/07/1982         40         IT         Jakarta 10-884         18/07/1982         40         IT         Jakarta 10-884         18/07/1982         40         Data         Jakarta 10-885         19/08/1982         Aryani         Titin Aryani         28/03/1992         30         Sales         Jakarta 10-885         19/08/1983         19/08/1983         19/08/1983         12-866         12-766</td> <td>  Aryani</td> <td>Aryani Raina Aryani 30/11/1995 27 Executive Surabaya 10-827 → MID(( □ tocation); HND( □ tocation) + Mignaria 1 − Aryani 1 − Tari Anggraini 1 − Aryani 1 − Aryani 1 − Aryani 1 − Aryani 20/01/2000 22 Data Jakarta 11-806   FIND( □ tocation) + Mignaria 1 − Aryani 1 − Aryani 20/01/2000 22 Data Jakarta 10-881   Midner staring num chars) 1 − Aryani 1 − Aryani 28/03/1992 30 Sales Jakarta 12-766   Jakarta 10-885   Jakarta 18-86   Aryani 1 − Aryani 1 − Aryani 28/03/1992 30 Sales Jakarta 12-766   Jakarta 18-766   Jakarta 19-766   Jakarta 18-766   Jakarta</td> <td>Aryani Raina Aryani 30/11/1995 27 Executive Surabaya 10-827 ⇒ MID(( □ tocation); FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 10-881   MID(tocation) → 1.4 /10/1989   Jakarta 11-806   Jakarta 10-881   J</td> <td>Aryani   Raina Aryani   30/11/1995   27   Executive   Surabaya 10-827   MID( ■ Gucation); HID( ■ Guca</td> <td>Aryani   Raina Aryani   30/11/1995   27</td>	Aryani         Roina Aryani         30/11/1995         27         Executive         Surabaya 10-827           Anggraini         Tari Anggraini         14/10/1988         34         Human Resources Jakarta 11-806           Riyanti         19/07/1982         40         IT         Jakarta 10-888           Aryani         Titin Aryani         20/01/2000         22         Data         Jakarta 10-888           Aryani         Ifisa Utami         28/03/1992         30         Sales         Jakarta 10-888           Hariyah         Jessica Hariyah         05/05/1982         40         Customer Service         Surabaya 12-388           Hassanah         Almira Hasanah         06/01/1999         23         Executive         Lakarta 11-594           Astuti         Sari Astuti         01/07/1987         35         Sales         Surabaya 12-88           Anggraini         Aurora Anggraini         10/01/2000         22         thuman Resources         Jakarta 10-851           Andraini         Vivi Andriani         28/02/1994         28         Sales         Surabaya 10-799           Sirait         Alloria Sirait         21/05/1981         41         IT         Surabaya 10-779           Sirait         Adioria Sirait         21/05/1981	Aryani         Raina Aryani         30/11/1995         27         Executive         Surabaya 10-827         mID(I-Anggraini)         41/10/1982         34         Human Resources         Jakarta 11-806         RIND(III-N)           Riyanti         19/07/1982         40         IT         Jakarta 10-884         18/07/1982         40         IT         Jakarta 10-884         18/07/1982         40         Data         Jakarta 10-885         19/08/1982         Aryani         Titin Aryani         28/03/1992         30         Sales         Jakarta 10-885         19/08/1983         19/08/1983         19/08/1983         12-866         12-766	Aryani	Aryani Raina Aryani 30/11/1995 27 Executive Surabaya 10-827 → MID(( □ tocation); HND( □ tocation) + Mignaria 1 − Aryani 1 − Tari Anggraini 1 − Aryani 1 − Aryani 1 − Aryani 1 − Aryani 20/01/2000 22 Data Jakarta 11-806   FIND( □ tocation) + Mignaria 1 − Aryani 1 − Aryani 20/01/2000 22 Data Jakarta 10-881   Midner staring num chars) 1 − Aryani 1 − Aryani 28/03/1992 30 Sales Jakarta 12-766   Jakarta 10-885   Jakarta 18-86   Aryani 1 − Aryani 1 − Aryani 28/03/1992 30 Sales Jakarta 12-766   Jakarta 18-766   Jakarta 19-766   Jakarta 18-766   Jakarta	Aryani Raina Aryani 30/11/1995 27 Executive Surabaya 10-827 ⇒ MID(( □ tocation); FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 11-806   FIND(**); □ tocation) → 1.4 /10/1988 34 Human Resources   Jakarta 10-881   MID(tocation) → 1.4 /10/1989   Jakarta 11-806   Jakarta 10-881   J	Aryani   Raina Aryani   30/11/1995   27   Executive   Surabaya 10-827   MID( ■ Gucation); HID( ■ Guca	Aryani   Raina Aryani   30/11/1995   27

# Case: Cari nama account manager (di sheet employee) dari account manager ID (di sheet data). Rumus VLOOKUP

Supe	rstore Da	ita							
Order No	- Order Date -	Order Year -	Customer Name -	Address	City -	Customer Type	Account Manager II	AM Name	Order Priority
5014-1	26/05/2016	2016	Wawan Riyanti	Jl. Antapani Lama No. 705	Jakarta	Home Office	E1028	-VLOOKUP([@]	Account Manager ID]];Table2[[Employee ID]:[Full Name]];4;FALSE)
5016-1	26/05/2016	2016	Aditya Nainggolan	Jl. Surapati No. 996	Jakarta	Home Office	E1029		High
5018-1	27/05/2016	2016	Rafid Sudiati	Jalan K.H. Wahid Hasyim No. 5	Surabaya	Corporate	E1030		Critical.
5019-1	28/05/2016	2016	Pangestu Maulana	Gg. Joyoboyo No. 026	Jakarta	Home Office	E1028		High
5020-1	29/05/2016	2016	Pangestu Hariyah	Gg. Surapati No. 4	Surabaya	Consumer	E1031		Critical
5023-1	01/06/2016	2016	Nilam Suwarno	Gg. Joyoboyo No. 026	Jakarta	Home Office	E1028		Low
5024-1	02/06/2016	2016	Endra Hutapea	Gg. Jayabayo No. 691	Surabaya	Corporate	E1032		Critical
5025-1	04/06/2016	2016	Embuh Wibisono	Jalan Ciwastra No. 383	Surabaya	Consumer	E1032		Critical
5027-1	06/06/2016	2016	Unggul Zulaika	Jl. Jend. Sudirman No. 0	Surabaya	Small Business	E1030	Į.	Not Specified
5029-1	07/06/2016	2016	Gina Rajata	Gang Gedebage Selatan No. 424	Surabaya	Corporate	E1033		Not Specified
5031-1	09/06/2016	2016	Opung Kuswoyo	Gg. Otto Iskanderdinata No. 6	Jakarta	Corporate	E1029		Medium
5033-1	09/06/2016	2016	Rafi Januar	Gg, Waringin No. 112	Surabaya	Corporate	E1034		Medium
5034-1	10/06/2016	2016	Ajimat Hutapea	Jl. Dipenogoro No. 422	Surabaya	Corporate	E1032		High
5036-1	19/06/2016	2016	Rafi Anggriawan	Gg. Stasiun Wonokromo No. 0	Jakarta	Corporate	E1028		Critical
5037-1	23/06/2016	2016	Balamantri Mandasari	Gang Sadang Serang No. 74	Surabaya	Home Office	E1035		Critical
5038-1	25/06/2016	2016	Gaduh Hassanah	Gg. Otto Iskandardinata No. 6	Jakarta	Corporate	E1029		Low
5039-1	27/06/2016	2016	Bagya Permadi	Jalan Jamika No. 4	Surabaya	Corporate	E1033		Medium
5040-1	28/06/2016	2016	Labuh Permata	Jalan Jend, A. Yani No. 48	Surabaya	Small Business	E1036		Low
5043-1	05/07/2016	2016	Lantar Yuliarti	II. Astana Anyar No. 51	Surabaya	Small Business	E1031		High
5045-1	08/07/2016	2016	Darijan Pratiwi	Gang Otto Iskandardinata No. 167	Surabaya	Consumer	E1037		Not Specified
5047-1	09/07/2016	2016	Ami Utami	Jl. S. Parman No. 91	Surabaya	Home Office	E1034		Low
5048-1	09/07/2016		Citra Riyanti	Jalan Jend, A. Yani No. 48	-	Small Business	E1036		Medium
5049-1	12/07/2016		Aris Ardianto	Gg. Suniaraja No. 21	12-	Corporate	E1031		Not Specified
MARINE AL	14,0772010	EOIO	CHIO CHI MINI CONT.	All animorals same?	or annia	Social Section (Control of the Control of the Contr	LAVOA		Les les Surfrages de la resultat a Million

## **Case: Praktik Pivot Table**

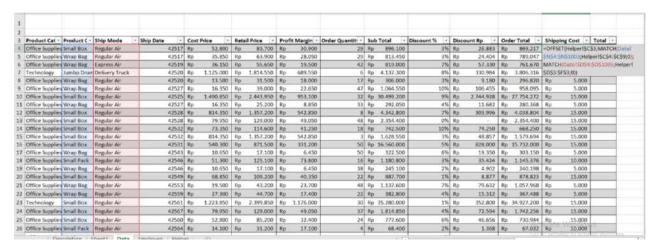
## Total Penjualan per Kategori Berdasarkan Tipe Konsumer



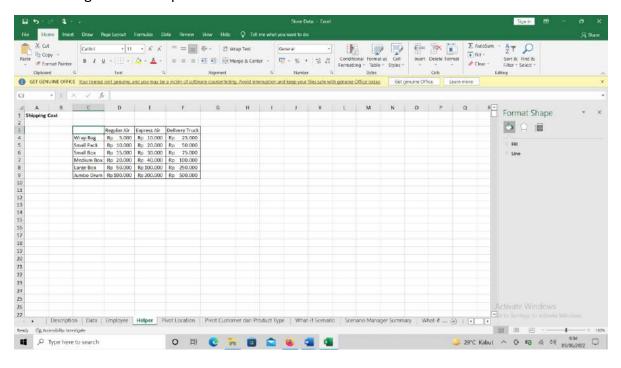
## **Total Penjualan Berdasarkan Kota**



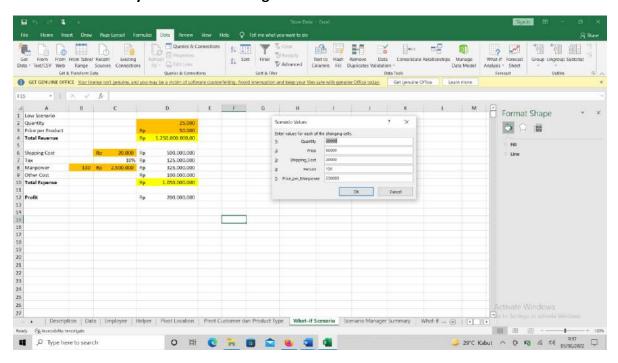
## Case: Menggunakan rumus offset-match untuk mengisi shipping cost berdasarkan product container dan ship mode



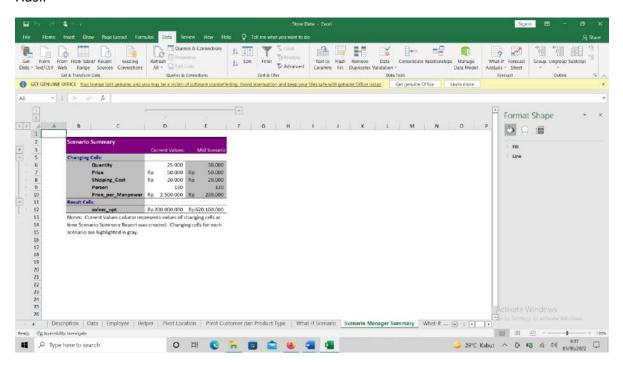
### Match dengan sheet helper



### **Case: What If Analysis Scenario Manager**



### Hasil



## Case: Goal Seek (Misal menentukan profit tertentu dengan merubah beberapa variabel)

