

Data Sources

With our reference data set, we generated and manipulated our data set to fit the goal of the project. Our data source contains information on orders, products, stores, manufacturers, shoppers, signs, and shipping.

- Order table contains information on the following: product id, store id, order date, quantity sold for orders, product name, product price, total order revenue, total order selling costs, and net profit for orders.
- Product table contains information on the following: product id, name of the product, price of the product, selling cost of products, and manufacturer id.
- Store table contains information on the following: store id, city information of store location, state information of the store location, phone number of store, product id, and shipper id.
- Manufacturer table contains information on the following: manufacturer id, name of the manufacturer, phone number of the manufacturer, product id, and shipper id.
- Shipper table contains information on the following: shipper id, name of shipper, phone number of shipper, store id, manufacturer id, and product id.
- Sign table contains information on the following: manufacturer id, shipper id, product id, and the expiration date of the contract.
- Ship table contains the following: shipper id, product id, store id, and the quantity shipped.

References

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB																						
	Sales	Record	Order	Number	Buyer	Name	Buyer	Email	Buyer	Note	Buyer	Address	Buyer	City	Buyer	State	Buyer	Zip	Buyer	Count	Buyer	Tax Mt	Buyer	Tax Mt	Ship To	Name	Ship To	Phone	Ship To	Address	Ship To	City	Ship To	State	Ship To	Zip	Ship To	Count	Item	Number	Item	Title	Custom	Label	Sold	Via	Price	Quantity	Sold	For
4818	25	09279-7	wcontergen	Steve	Capser		347 E US Highway 19 E By	Burnsville	NC	28714-7164	United States				PC Solutions	+1 828-487-347 E US Highway 19 E By	Burnsville	NC	28714-7164	United States	1,756+11	AMD FIREPRO Sticker Logo No			1	\$8.90																								
4817	08	09284-4	bentonsdown	bentons	down		2329 Northgate Apt. 4211	Sacramento	CA	95825-7211	United States				Benton Cove	+1 209-644-2329 Northgate Apt. 4211	Sacramento	CA	95825-7211	United States	1,850+11	Gum Stick rechargeable Bt No			1	\$20.90																								
4816	14	09278-1	lsw_aka	Kenneth	Wigginton		124 31st St Apt 3F	Brooklyn	NY	11232-1822	United States				Kenneth Wig	+1 646-431-124 31st St Apt 3F	Brooklyn	NY	11232-1822	United States	1,850+11	Gum Stick rechargeable Bt No			1	\$20.90																								
4815	12	09277-8	djnone1	Cary	Crafts		4311 W Braymore Dr	Rogers	AR	72758-8908	United States				Cary Crafts	+1 479-659-4311 W Braymore Dr	Rogers	AR	72758-8908	United States	1,756+11	Genuine HP OXAL Black Tn No			1	\$14.90																								
4814	14	09276-5	edward	Edward	Zimmerman		1914 Stamford Cir	Willington	FL	33414-8951	United States				Edward Zimm	+1 561-722-1914 Stamford Cir	Willington	FL	33414-8951	United States	1,850+11	UPC Round Shower Head No			1	\$16.50																								
4813	01	09280-6	jedusma	Jacob	Duran		8700 NE Bot apt b104	Bothell	WA	98011-3635	United States				Jacob Duran	+1 425-418-8700 NE Bot apt b104	Bothell	WA	98011-3635	United States	1,756+11	Lauren Ralph Lauren Loni No			1	\$54.50																								
4812	11	09276-4	dysrene	David J	Smith		4010 E Portland Ln	Inverness	FL	34452-9077	United States				David Smith	+1 321-426-4010 E Portland Ln	Inverness	FL	34452-9077	United States	1,850+11	PS050W0000U Power Su No			1	\$7.90																								
4811	27	09266-7	tyyuantran	Paul	Hinton		359 Kings Ln	Nashville	TN	37211-5531	United States				Sheldu Ruit	+1 615-259-359 Kings Ln	Nashville	TN	37211-5531	United States	1,850+11	Compatible (Windows 11 No			1	\$10.90																								
4810	04	09274-2	vthad-42	Steve	Beltharz		166 E Water St	Muncy	PA	17756-7821	United States				Steve Beltharz	+1 352-503-166 E Water St	Muncy	PA	17756-7821	United States	1,850+11	Gum Stick rechargeable Bt No			1	\$20.90																								
4809	17	09267-0	richards_r	richard	peebles		112 Hannah Marie Pl	Tonaw	AL	35773-9645	United States				richard peeb	+1 256-858-112 Hannah Marie Pl	Tonaw	AL	35773-9645	United States	1,756+11	JEtech Tempered Glass Sc No			1	\$7.90																								
4808	25	09262-8	jennit1985	Jason A	Smith		1210 S 5th St	Owosso	MI	48867-8942	United States				Jason Smith	+1 989-866-1210 S 5th St	Owosso	MI	48867-8942	United States	1,756+11	KNIGHTON A68 D093 1b No			1	\$7.90																								
4807	07	09266-5	harry4217	Jacky	Tsung		14217 Tishen pl	gainesville	VA	20155-1446	United States				Jacky Tsung	+1 703-781-14217 Tishen pl	gainesville	VA	20155-1446	United States	1,756+11	Down DC205 STAINLESS No			1	\$9.50																								
4806	14	09259-7	burn-budd	Steven	Barry		1008 Neapan Dr SE	Olympia	WA	98513-7732	United States				Buddy Barry	+1 360-259-1008 Neapan Dr SE	Olympia	WA	98513-7732	United States	1,756+11	AC/AC Adapter 6V 600mA No			1	\$9.80																								
4805	05	09261-8	welbelsheim	Elizabeth	Gillson		8865 Rembrandt Ct	Elk Grove	CA	95624-3262	United States				Elizabeth Gill	+1 916-685-8865 Rembrandt Ct	Elk Grove	CA	95624-3262	United States	1,840+11	3.7V Lithium Polymer LfP No			1	\$9.90																								
4804	13	09256-0	tonstary	Don A	Starck		100 Denmont Apt 20	Pittsburgh	PA	15206-4031	United States				Don Starck	+1 412-889-100 Denmont Apt 20	Pittsburgh	PA	15206-4031	United States	1,756+11	Microsoft Double-sided / No			6	\$12.90																								
4803	25	09249-2	willverdeg	William	Verdega		730 James Madison Dr SE Atlanta	GA	30331-8733	United States				Will Verdega	+1 678-847-730 James Madison Dr SE Atlanta	GA	30331-8733	United States	1,756+11	HP Elitebook 820 G 2 36ff No			1	\$149.50																										
4802	01	09253-1	jennit1885	Jermaine	Pateusz		3603 SW 95th Ct	Miami	FL	33173-1522	United States				Jermaine Pat	+1 786-436-3603 SW 95th Ct	Miami	FL	33173-1522	United States	1,740+11	Micro USB Female 5Pin 5h No			1	\$5.90																								
4801	13	09248-7	davidkaufm	David	Kaufman		33 Furlong Dr	Cape May Cj NJ		08210-1143	United States				David Kaufm	+1 609-264-33 Furlong Dr	Cape May Cj NJ		08210-1143	United States	1,850+11	Companion Automatic WI No			1	\$14.90																								
4800	27	09243-7	omerfeld	Omer	Reid		1200 Millstone Dr	Litella	GA	31052-5554	United States				Omer Reid	+1 478-696-1200 Millstone Dr	Litella	GA	31052-5554	United States	1,850+11	Cuisinart SS-700 Keurig Si No			1	\$119.50																								
4799	08	09249-7	jessuendrick	walter	snider		4308 Carroll Ave	Bay St Louis MS		39520-3500	United States				walter snider	+1 228-216-4308 Carroll Ave	Bay St Louis MS		39520-3500	United States	1,840+11	Kiede 21 007581 Hardwa No			1	\$13.90																								
4798	12	09248-3	codymcwilliam	Cody	McWilliams		2020 Tabac Circle	Tracy	CA	95376-8921	United States				Cody McWill	+1 209-410-2020 Tabac Circle	Tracy	CA	95376-8921	United States	1,740+11	ATI/Hevy GIGABYTE Sbc No			1	\$8.90																								
4797	11	09245-4	K0628	Khoa	Liu		196 Las Lomas Rd	Duarte	CA	91010-3600	United States				Khoa Liu	+1 612-423-196 Las Lomas Rd	Duarte	CA	91010-3600	United States	1,756+11	3.7V Lithium Polymer LfP No			1	\$9.90																								
4796	19	09240-0	thmccoghe	Suzanne	Delaney		8 Beaumont	Aliso Viejo CA		92656-7032	United States				Suzanne Del	+1 949-425-8 Beaumont	Aliso Viejo CA		92656-7032	United States	1,850+11	Compatible with Windows No			1	\$7.90																								
4795	08	09242-5	Ramona	Jane F	Callahan		6 Alibanda Drive	Saint Cloud MN		56301-5112	United States				Jane Callahan	+1 320-400-6 Alibanda Drive	Saint Cloud MN		56301-5112	United States	1,840+11	4.5 Inch Ballpoint Pen Ref No			1	\$4.90																								
4794	17	09232-9	ricardoperra	Ricardo	PerraNoriega		305 E Eljido Ave	Laredo TX		78043-4191	United States				Ricardo Perr	+1 954-612-305 E Eljido Ave	Laredo TX		78043-4191	United States	1,756+11	SK HyNix 4GB 184 PC1- No			1	\$7.90																								
4793	02	09236-5	wed12028	Wendy	Ham		474 Dove Dr	Chesapeake VA		23322-7225	United States				Wendy Ham	+1 757-729-474 Dove Dr	Chesapeake VA		23322-7225	United States	1,756+11	Asus E203M Laptop 1.16 No			1	\$129.50																								
4792	06	09233-3	dmc0719	DAVID M.	CHAPMAN		1471 Leah dr	North Tonaw NY		14120-3015	United States				DAVID CHAP	+1 716-434-1471 Leah dr	North Tonaw NY		14120-3015	United States	1,756+11	Compatible (Windows 11 No			1	\$9.90																								
4791	02	09233-0	lump6684	Tamara	Marshall		220 Overst Apt 2307	Dallas TX		75216-5986	United States				Tamara Mar	+1 972-284-220 Overst Apt 2307	Dallas TX		75216-5986	United States	1,850+11	Genuine original Front Lef No			1	\$59.50																								
4790	18	09226-2	macham159	Mark	Chambers		4756 E Gladden Dr	Aurora CO		80016-7381	United States				Mark Cham	+1 408-506-4756 E Gladden Dr	Aurora CO		80016-7381	United States	1,840+11	3.7V Lithium Polymer LfP No			1	\$9.90																								
4789	01	09211-6	tom-7321	Tony	Smith		1235 County Road 42	Jemison AL		35085-3511	United States				Tony Smith	+1 205-931-1235 County Road 42	Jemison AL		35085-3511	United States	1,740+11	Regular size Elite 609 No			1	\$5.90																								
4788	12	09225-2	keithottin97	K Keith	Ottling		2739 Wiscenia Ln	Wilmington NC		28409-5822	United States				Keith Ottling	+1 910-742-2739 Wiscenia Ln	Wilmington NC		28409-5822	United States	1,860+11	New INRKE Bt Computer No			1	\$16.50																								
4787	20	09214-1	cabr_8358	Candi	Brown		37379 Via Real	Menifee CA		92585-3601	United States				Candi Brown	+1 408-506-37379 Via Real	Menifee CA		92585-3601	United States	1,850+11	IGBT H30R1303 Insulated No			1	\$11.90																								
4786	18	09206-3	etec07119	F Tippi		270 Hennepi Apt 301	Minneapolis MN		55401-7511	United States				Frank T	+1 248-790-270 Hennepi Apt 301	Minneapolis MN		55401-7511	United States	1,860+11	Logitech Logi C200 V-002 No			1	\$28.90																									
4785	23	09198-0	resurrection	Michael D	Ness		1800 E 121st St	Burnsville MN		55317-4801	United States				Ness Electro	+1 651-251-1800 E 121st St	Burnsville MN		55317-4801	United States	1,740+11	Bi-directional Diode PKEE3 No			1	\$3.90																								
4784	22	09196-6	stanecarter	Stanley	Carter		3209 N Glen Creek Dr	Tucson AZ		85712-1138	United States				Standing O	+1 520-325-3209 N Glen Creek Dr	Tucson AZ		85712-1138	United States	1,840+11	4WIRE DSL filter set LFT4-1 No			1	\$9.80																								
4783	17	09196-3	stanecarter	chris	estes		1410 W Clark Blvd	murfreesbor TN		37129-2411	United States				chris estes	+1 615-569-1410 W Clark Blvd	murfreesbor TN		37129-2411	United States	1,840+11	Panasonic Digital Camer No			1	\$29.50																								
4782	13	09196-2	unatamulio	ilene	elmaguati		1405 W Iowa Ave	ridgeland CT		9355-4722	United States				ilene elmagu	+1 780-793-1405 W Iowa Ave	ridgeland CT		9355-4722	United States	1,730+11	Compatible (Windows 10 No			1	\$7.90																								
4781	19	09193-9	nupa-6655	Hamza	Paic		3944 Toward Unit 8	Jacksonville FL		32217-3022	United States				Hamza Paic	+1 904-805-3944 Toward Unit 8	Jacksonville FL		32217-3022	United States	1,860+11	Lucas Engine Oil Stop Leak No			1	\$19.50																								
4780	12	09196-1	lumb071	Jessica	Lance		1814 W 80th	Holton MI		48425-8401	United States				Jessica Lance	+1 231-519-1814 W 80th	Holton MI		48425-8401	United States	1,756+11	SONY MDR-ZX110 Stereo No			1	\$12.90																								
4779	08	09196-2	ayonow3	Joey	Boyka		9039WEST Buckingham Dr	Sliver Spring MD		20901-3618	United States				joey boyk	+1 212-951-9039WEST Buckingham Dr	Sliver Spring MD		20901-3618	United States	1,850+11	RENET AC DoublePort 0ff No			1	\$10.90																								
4778	08	09196-0	dno55ae	Daniel	Romo		7102 N 130f Apt 259, Bld Phoenix	AZ		85021-8564	United States				Daniel Romo	+1 602-612-7102 N 130f Apt 259, Bld Phoenix	AZ		85021-8564	United States	1,850+11	Compatible (Windows 11 No			1	\$14.90																								
4777	18	09192-5	trayayianah	Shaw	Kadowo		2562 N Ridge Ave	Arlington HI IL		60004-2451	United States				Shaw Kadow	+1 847-565-2562 N Ridge Ave	Arlington HI IL		60004-2451	United States	1,840+11	3.7V Lithium Polymer LfP No			1	\$13.90																								
4776	22	09190-4	tsuadad	Leslie	Zaklwe		207 Cametti Ct	West Orange NJ		07051-4131	United States				Leslie Zaklwe	+1 973-713-207 Cametti Ct	West Orange NJ		07051-4131	United States	1,850+11	Compatible (Windows 11 No			2	\$10.90																								
4775	02	09193-8	tsuadad_809	Dale	Kudacki		6583 Iris road	Ludington MI		49431-9344	United States				Dale Kudacki	+1 231-845-6583 Iris road	Ludington MI		49431-9344	United States	1,756+11	2EA of Filters for Russell Zi No			1	\$13.20																								
4774	22	09187-9	arwin-1389	Angel	Nacchi		12215 Yearling Pl	Cerritos CA		90709-7658	United States				Angie	+1 562-658-12215 Yearling Pl	Cerritos CA		90709-7658	United States	1,850+11	OCVLY Phone 12 Pro Ser No			1	\$8.90																								
4773	22	09188-3	tsuadad	Ernest J	Capkun		55432 1811 Lake Road	Minneapolis MN		55432-1811	United States				Brent L	+1 612-508-4625 Lake Road Ave	Minneapolis MN		55432-1811	United States	1,850+11	Genuine Domett DW0099 No			1	\$17.90																								
4772	NE 09049-3	tsuadad	Ernest J	Capkun		55432 1811 Lake Road	Minneapolis MN		55432-1811	United States				Ernest J Capkun	+1 612-508-4625 Lake Road Ave	Minneapolis MN		55432-1811	United States	1,850+11	Genuine Domett DW0099 No			1	\$17.90																									

E-bay transaction data from the seller's side.

Name of the seller is James Rhee, and the contact number is 540-908-6339.

Screenshot

Q1 What are the profit of product for each store in descending order?

```
SELECT d.proId, d.proName, f.Unit_Profit, SUM(o.qtySold) AS 'QTY sold', f.Unit_Profit*SUM(o.qtySold) AS 'Profit', s.strId, s.strLocationCity
FROM [YLY.Store] s, [YLY.Product] d, [YLY.Order] o,(
    SELECT (p.proPrice - p.proSellingCost) AS 'Unit_Profit', p.proId
    FROM [YLY.Product] p
    GROUP BY p.proPrice, p.proSellingCost, p.proId) f
WHERE d.proId = f.proId
    AND f.proId = o.proId
    AND o.strId = s.strId
    AND s.strLocationCity = 'Greenbelt'
GROUP BY d.proId, d.proName,f.Unit_Profit, s.strId, s.strLocationCity
ORDER BY Profit DESC
```

proId	proName	Unit_Profit	QTY sold	Profit	strId	strLocationCity
174371000000	Thermal Fuse BF172 250V 10A	7.37	98	722.26	c0000001	Greenbelt
184526000000	UK-201 Battery Charger	15.68	37	580.16	c0000001	Greenbelt
174486000000	8 GB SD Memory card	5.44	45	244.80	c0000001	Greenbelt
184599000000	2 EA of Thermistor	11.02	9	99.18	c0000001	Greenbelt
184416000000	3.7V Lithium Polymer Battery	4.70	6	28.20	c0000001	Greenbelt

```
SELECT d.proId, d.proName, f.Unit_Profit, SUM(o.qtySold) AS 'QTY sold', f.Unit_Profit*SUM(o.qtySold) AS 'Profit', s.strId, s.strLocationCity
FROM [YLY.Store] s, [YLY.Product] d, [YLY.Order] o,(
    SELECT (p.proPrice - p.proSellingCost) AS 'Unit_Profit', p.proId
    FROM [YLY.Product] p
    GROUP BY p.proPrice, p.proSellingCost, p.proId) f
WHERE d.proId = f.proId
    AND f.proId = o.proId
    AND o.strId = s.strId
    AND s.strLocationCity = 'Hyattsville'
GROUP BY d.proId, d.proName,f.Unit_Profit, s.strId, s.strLocationCity
ORDER BY Profit DESC
```

proId	proName	Unit_Profit	QTY sold	Profit	strId	strLocationCity
184526000000	UK-201 Battery Charger	15.68	18	282.24	c0000003	Hyattsville
184599000000	2 EA of Thermistor	11.02	23	253.46	c0000003	Hyattsville
174486000000	8 GB SD Memory card	5.44	34	184.96	c0000003	Hyattsville
184416000000	3.7V Lithium Polymer Battery	4.70	28	131.60	c0000003	Hyattsville
174371000000	Thermal Fuse BF172 250V 10A	7.37	12	88.44	c0000003	Hyattsville

```
SELECT d.proId, d.proName, f.Unit_Profit, SUM(o.qtySold) AS 'QTY sold', f.Unit_Profit*SUM(o.qtySold) AS 'Profit', s.strId, s.strLocationCity
FROM [YLY.Store] s, [YLY.Product] d, [YLY.Order] o,(
    SELECT (p.proPrice - p.proSellingCost) AS 'Unit_Profit', p.proId
    FROM [YLY.Product] p
    GROUP BY p.proPrice, p.proSellingCost, p.proId) f
WHERE d.proId = f.proId
    AND f.proId = o.proId
    AND o.strId = s.strId
    AND s.strLocationCity = 'College Park'
GROUP BY d.proId, d.proName,f.Unit_Profit, s.strId, s.strLocationCity
ORDER BY Profit DESC
```

proId	proName	Unit_Profit	QTY sold	Profit	strId	strLocationCity
174371000000	Thermal Fuse BF172 250V 10A	7.37	265	1953.05	c0000002	College Park
174486000000	8 GB SD Memory card	5.44	112	609.28	c0000002	College Park
184416000000	3.7V Lithium Polymer Battery	4.70	90	423.00	c0000002	College Park
184526000000	UK-201 Battery Charger	15.68	6	94.08	c0000002	College Park
184599000000	2 EA of Thermistor	11.02	1	11.02	c0000002	College Park

--Q2 What are the manufacturer name, shipper name, and expiration date for each sign?

```
SELECT m.mfcName, h.shpName, s.expDate
FROM [YLY.Sign] s, [YLY.Shipper] h, [YLY.Manufacturer] m
WHERE s.mfcId = m.mfcId AND s.shpId = h.shpId
ORDER BY s.expDate
```

100 %

Results Messages

	mfcName	shpName	expDate
1	IN&OUT Elec.	Bravo Shipping	2023-02-01
2	IN&OUT Elec.	Safe Shipping	2023-06-01
3	IN&OUT Elec.	Safe Shipping	2023-06-06
4	SuperDuperDevice	Bravo Shipping	2023-06-27
5	IN&OUT Elec.	Bravo Shipping	2023-07-15
6	SuperDuperDevice	Safe Shipping	2023-12-01
7	SuperDuperDevice	Safe Shipping	2023-12-27
8	FiveDevices	Safe Shipping	2024-08-12

--Q3 What are the product name, inventory turnover ratio,
-- and store location in descending order assuming that the number of each product is 1,000?

```
SELECT p.proName, (o.qtySold/1000) AS 'Inventory_Turnover_Ratio', s.strLocationCity
FROM [YLY.Order] o, [YLY.Product] p, [YLY.Store] s
WHERE p.proId = o.proId
AND o.strId = s.strId
ORDER BY Inventory_Turnover_Ratio DESC
```

100 %

Results Messages

	proName	Inventory_Turnover_Ratio	strLocationCity
1	Thermal Fuse BF172 250V 10A	0.265000	College Park
2	8 GB SD Memory card	0.112000	College Park
3	Thermal Fuse BF172 250V 10A	0.098000	Greenbelt
4	3.7V Lithium Polymer Battery	0.090000	College Park
5	8 GB SD Memory card	0.045000	Greenbelt
6	UK-201 Battery Charger	0.037000	Greenbelt
7	8 GB SD Memory card	0.034000	Hyattsville
8	3.7V Lithium Polymer Battery	0.028000	Hyattsville
9	2 EA of Thermistor	0.023000	Hyattsville
10	UK-201 Battery Charger	0.018000	Hyattsville
11	Thermal Fuse BF172 250V 10A	0.012000	Hyattsville
12	2 EA of Thermistor	0.009000	Greenbelt
13	UK-201 Battery Charger	0.006000	College Park
14	3.7V Lithium Polymer Battery	0.006000	Greenbelt
15	2 EA of Thermistor	0.001000	College Park

```
--
SELECT p.proName, (o.qtySold/1000) AS 'Inventory_Turnover_Ratio', s.strLocationCity
FROM [YLY.Order] o, [YLY.Product] p, [YLY.Store] s
WHERE o.qtySold > 0
AND p.proId = o.proId
AND o.strId = s.strId
ORDER BY Inventory_Turnover_Ratio
```

100 %

Results Messages

	proName	Inventory_Turnover_Ratio	strLocationCity
1	2 EA of Thermistor	0.001000	College Park
2	UK-201 Battery Charger	0.006000	College Park
3	3.7V Lithium Polymer Battery	0.006000	Greenbelt
4	2 EA of Thermistor	0.009000	Greenbelt
5	Thermal Fuse BF172 250V 10A	0.012000	Hyattsville
6	UK-201 Battery Charger	0.018000	Hyattsville
7	2 EA of Thermistor	0.023000	Hyattsville
8	3.7V Lithium Polymer Battery	0.028000	Hyattsville
9	8 GB SD Memory card	0.034000	Hyattsville
10	UK-201 Battery Charger	0.037000	Greenbelt
11	8 GB SD Memory card	0.045000	Greenbelt
12	3.7V Lithium Polymer Battery	0.090000	College Park
13	Thermal Fuse BF172 250V 10A	0.098000	Greenbelt
14	8 GB SD Memory card	0.112000	College Park
15	Thermal Fuse BF172 250V 10A	0.265000	College Park

```
--Q4 What are the row number, the dense rank, and the details of order table?
SELECT ROW_NUMBER() OVER (ORDER BY o.qtySold DESC) AS 'Row Number',
       DENSE_RANK() OVER (ORDER BY o.qtySold DESC) AS 'Dense Rank',
       o.*
FROM [YLY.Order] o
```

100 %

Results Messages

	Row Number	Dense Rank	proId	strId	odrDate	qtySold
1	1	1	174371000000	c0000002	2022-10-26	265
2	2	2	174486000000	c0000002	2022-10-13	112
3	3	3	174371000000	c0000001	2022-10-09	98
4	4	4	184416000000	c0000002	2022-10-27	90
5	5	5	174486000000	c0000001	2022-10-11	45
6	6	6	184526000000	c0000001	2022-10-03	37
7	7	7	174486000000	c0000003	2022-10-08	34
8	8	8	184416000000	c0000003	2022-10-11	28
9	9	9	184599000000	c0000003	2022-10-30	23
10	10	10	184526000000	c0000003	2022-10-31	18
11	11	11	174371000000	c0000003	2022-10-15	12
12	12	12	184599000000	c0000001	2022-10-28	9
13	13	13	184526000000	c0000002	2022-10-25	6
14	14	13	184416000000	c0000001	2022-10-29	6
15	15	14	184599000000	c0000002	2022-10-08	1

--Q5 What are the details of order with the accumulated product quantity sold within each store?

```
SELECT o.*, SUM(o.qtySold) OVER (
    PARTITION BY o.strId
    ORDER BY o.qtySold DESC
    ROWS UNBOUNDED PRECEDING ) AS 'Accumulated Product Quantity Sold'
FROM [YLY.Order] o
```

100 %

Results Messages

	prodId	strId	odrDate	qtySold	Accumulated Product Quantity Sold
1	174371000000	c0000001	2022-10-09	98	98
2	174486000000	c0000001	2022-10-11	45	143
3	184526000000	c0000001	2022-10-03	37	180
4	184599000000	c0000001	2022-10-28	9	189
5	184416000000	c0000001	2022-10-29	6	195
6	174371000000	c0000002	2022-10-26	265	265
7	174486000000	c0000002	2022-10-13	112	377
8	184416000000	c0000002	2022-10-27	90	467
9	184526000000	c0000002	2022-10-25	6	473
10	184599000000	c0000002	2022-10-08	1	474
11	174486000000	c0000003	2022-10-08	34	34
12	184416000000	c0000003	2022-10-11	28	62
13	184599000000	c0000003	2022-10-30	23	85
14	184526000000	c0000003	2022-10-31	18	103
15	174371000000	c0000003	2022-10-15	12	115

--Q6 How many products did each store sold within 7 days from the end day of October?

```
SELECT p.strId, ISNULL([25],0) AS '10/25', ISNULL([26],0) AS '10/26', ISNULL([27],0) AS '10/27', ISNULL([28],0) AS '10/28',
    ISNULL([29],0) AS '10/29', ISNULL([30],0) AS '10/30', ISNULL([31],0) AS '10/31'
FROM (
    SELECT o.qtySold, o.strId, DAY(o.odrDate) AS day
    FROM [YLY.Order] o) m
PIVOT (SUM(m.qtySold) FOR m.day IN ([25],[26],[27],[28],[29],[30],[31])) p
```

100 %

Results Messages

	strId	10/25	10/26	10/27	10/28	10/29	10/30	10/31
1	c0000001	0	0	0	9	6	0	0
2	c0000002	6	265	90	0	0	0	0
3	c0000003	0	0	0	0	0	23	18