

# Product Sales Data Project

SQL-Based Analysis on Sales Performance

# Raw Data

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	Region	Product ID	Category	Sub-Category	Product Name	Sales
1	CA-2017-152156	08-11-2017	11-11-2017	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	FUR-BO-10001798	Furniture	Bookcases	Bush Somerset Collection Bookcase	261.96
2	CA-2017-152156	08-11-2017	11-11-2017	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	FUR-CH-10000454	Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs, Rounded Back	731.94
3	CA-2017-138688	12-06-2017	16-06-2017	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036	West	OFF-LA-10000240	Office Supplies	Labels	Self-Adhesive Address Labels for Typewriters by Universal	14.62
4	US-2016-108966	11-10-2016	18-10-2016	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	957.5775
5	US-2016-108966	11-10-2016	18-10-2016	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	OFF-ST-10000760	Office Supplies	Storage	Eldon Fold 'N Roll Cart System	22.368
6	CA-2015-115812	09-06-2015	14-06-2015	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-FU-10001487	Furniture	Furnishings	Eldon Expressions Wood and Plastic Desk Accessories, Cherry Wood	48.86
7	CA-2015-115812	09-06-2015	14-06-2015	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-AR-10002833	Office Supplies	Art	Newell 322	7.28
8	CA-2015-115812	09-06-2015	14-06-2015	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002275	Technology	Phones	Mitel 5320 IP Phone VoIP phone	907.152
9	CA-2015-115812	09-06-2015	14-06-2015	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-BI-10003910	Office Supplies	Binders	DXL Angle-View Binders with Locking Rings by Samsill	18.504
10	CA-2015-115812	09-06-2015	14-06-2015	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-AP-10002892	Office Supplies	Appliances	Belkin F5C206VTEL 6 Outlet Surge	114.9
11	CA-2015-115812	09-06-2015	14-06-2015	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-TA-10001539	Furniture	Tables	Chromcraft Rectangular Conference Tables	1706.184
12	CA-2015-115812	09-06-2015	14-06-2015	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002033	Technology	Phones	Konitel 250 Conference Phone - Charcoal black	911.424
13	CA-2018-114412	15-04-2018	20-04-2018	Standard Class	AA-10480	Andrew Allen	Consumer	United States	Concord	North Carolina	28027	South	OFF-PA-10002365	Office Supplies	Paper	Xerox 1967	15.552
14	CA-2017-161389	05-12-2017	10-12-2017	Standard Class	IM-15070	Irene Maddox	Consumer	United States	Seattle	Washington	98103	West	OFF-BI-10003656	Office Supplies	Binders	Fellowes PB200 Plastic Comb Binding Machine	407.976
15	US-2016-118983	22-11-2016	26-11-2016	Standard Class	HP-14815	Harold Pawlan	Home Office	United States	Fort Worth	Texas	76106	Central	OFF-AP-10002311	Office Supplies	Appliances	Holmes Replacement Filter for HEPA Air Cleaner, Very Large Room, HEPA Filter	68.81
16	US-2016-118983	22-11-2016	26-11-2016	Standard Class	HP-14815	Harold Pawlan	Home Office	United States	Fort Worth	Texas	76106	Central	OFF-BI-10000756	Office Supplies	Binders	Storex DuraTech Recycled Plastic Frosted Binders	2.544
17	CA-2015-105893	11-11-2015	18-11-2015	Standard Class	PK-19075	Pete Kriz	Consumer	United States	Madison	Wisconsin	53711	Central	OFF-ST-10004186	Office Supplies	Storage	Stur-D-Stor Shelving, Vertical 5-Shelf: 72"H x 36"W x 18 1/2"D	665.88
18	CA-2015-167164	13-05-2015	15-05-2015	Second Class	AG-10270	Alejandro Grove	Consumer	United States	West Jordan	Utah	84084	West	OFF-ST-10001007	Office Supplies	Storage	Fellowes Super StorDrawer	55.5
19	CA-2015-143336	27-08-2015	01-09-2015	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States	San Francisco	California	94109	West	OFF-AR-10003056	Office Supplies	Art	Newell 341	8.56
20	CA-2015-143336	27-08-2015	01-09-2015	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States	San Francisco	California	94109	West	TEC-PH-10001949	Technology	Phones	Cisco SPA 501G IP Phone	213.48
21	CA-2015-143336	27-08-2015	01-09-2015	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States	San Francisco	California	94109	West	OFF-BI-10002215	Office Supplies	Binders	Wilson Jones Hanging View Binder, White, 1"	22.72
22	CA-2017-137330	09-12-2017	13-12-2017	Standard Class	KB-16585	Ken Black	Corporate	United States	Fremont	Nebraska	68025	Central	OFF-AR-10000246	Office Supplies	Art	Newell 318	19.46
23	CA-2017-137330	09-12-2017	13-12-2017	Standard Class	KB-16585	Ken Black	Corporate	United States	Fremont	Nebraska	68025	Central	OFF-AP-10001492	Office Supplies	Appliances	Acco Six-Outlet Power Strip, 4' Cord Length	60.34
24	US-2018-156909	16-07-2018	18-07-2018	Second Class	SF-20065	Sandra Flanagan	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-CH-10002774	Furniture	Chairs	Global Deluxe Stacking Chair, Gray	71.372
25	CA-2016-106320	25-09-2016	30-09-2016	Standard Class	EB-13870	Emily Burns	Consumer	United States	Orem	Utah	84057	West	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	1044.63
26	CA-2017-121755	16-01-2017	20-01-2017	Second Class	EH-13945	Eric Hoffmann	Consumer	United States	Los Angeles	California	90049	West	OFF-BI-10001634	Office Supplies	Binders	Wilson Jones Active Use Binders	11.648
27	CA-2017-121755	16-01-2017	20-01-2017	Second Class	EH-13945	Eric Hoffmann	Consumer	United States	Los Angeles	California	90049	West	TEC-AC-10003027	Technology	Accessories	Imation 8GB Mini TravelDrive USB 2.0 Flash Drive	90.57
28	US-2016-150630	17-09-2016	21-09-2016	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-BO-10004834	Furniture	Bookcases	Riverside Palais Royal Lawyers Bookcase, Royale Cherry Finish	3083.43
29	US-2016-150630	17-09-2016	21-09-2016	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-AP-10000474	Office Supplies	Binders	Avery Recycled Flexi-View Covers for Binding Systems	9.618
30	US-2016-150630	17-09-2016	21-09-2016	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-FU-10004848	Furniture	Furnishings	Howard Miller 13-3/4" Diameter Brushed Chrome Round Wall Clock	124.2
31	US-2016-150630	17-09-2016	21-09-2016	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-EN-10001509	Office Supplies	Envelopes	Poly String Tie Envelopes	3.264
32	US-2016-150630	17-09-2016	21-09-2016	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-AR-10004042	Office Supplies	Art	BOSTON Model 1800 Electric Pencil Sharpeners, Putty/Woodgrain	86.304
33	US-2016-150630	17-09-2016	21-09-2016	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-BI-10001525	Office Supplies	Binders	Acco Pressboard Covers with Storage Hooks, 14 7/8" x 11", Executive Red	6.858
34	US-2016-150630	17-09-2016	21-09-2016	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-AR-10001683	Office Supplies	Art	Lumber Crayons	15.76
35	CA-2018-107727	19-10-2018	23-10-2018	Second Class	MA-17560	Matt Abelman	Home Office	United States	Houston	Texas	77095	Central	OFF-PA-10000249	Office Supplies	Paper	Easy-staple paper	29.472
36	CA-2017-117590	08-12-2017	10-12-2017	First Class	GH-14485	Gene Hale	Corporate	United States	Richardson	Texas	75080	Central	TEC-PH-10004977	Technology	Phones	GE 30524EE4	1097.544
37	CA-2017-117590	08-12-2017	10-12-2017	First Class	GH-14485	Gene Hale	Corporate	United States	Richardson	Texas	75080	Central	FUR-FU-10003664	Furniture	Furnishings	Electrix Architect's Clamp-On Swing Arm Lamp, Black	190.92
38	CA-2016-117415	27-12-2016	31-12-2016	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	OFF-EN-10002986	Office Supplies	Envelopes	#10-4 1/8" x 9 1/2" Premium Diagonal Seam Envelopes	113.328
39	CA-2016-117415	27-12-2016	31-12-2016	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	FUR-BO-10002545	Furniture	Bookcases	Atlantic Metals Mobile 3-Shelf Bookcases, Custom Colors	532.3992
40	CA-2016-117415	27-12-2016	31-12-2016	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	FUR-CH-10004218	Furniture	Chairs	Global Fabric Manager's Chair, Dark Gray	212.058
41	CA-2016-117415	27-12-2016	31-12-2016	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	TEC-PH-10000486	Technology	Phones	Plantronics HL10 Handset Lifter	371.168
42	CA-2018-120999	10-09-2018	15-09-2018	Standard Class	LC-16930	Linda Cazamias	Corporate	United States	Naperville	Illinois	60540	Central	TEC-PH-10004093	Technology	Phones	Panasonic Kx-TS550	147.168
43	CA-2017-101343	17-07-2017	22-07-2017	Standard Class	RA-19885	Ruben Ausman	Corporate	United States	Los Angeles	California	90049	West	OFF-ST-10003479	Office Supplies	Storage	Eldon Base for stackable storage shelf, platinum	77.88
44	CA-2018-139619	19-09-2018	23-09-2018	Standard Class	ES-14080	Erin Smith	Corporate	United States	Melbourne	Florida	32935	South	OFF-ST-10003282	Office Supplies	Storage	Advantus 10-Drawer Portable Organizer, Chrome Metal Frame, Smoke Drawers	95.616
45	CA-2017-118255	11-03-2017	13-03-2017	First Class	ON-18715	Odella Nelson	Corporate	United States	Eagan	Minnesota	55122	Central	TEC-AC-10000171	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 25/Pack	45.98
46	CA-2017-118255	11-03-2017	13-03-2017	First Class	ON-18715	Odella Nelson	Corporate	United States	Eagan	Minnesota	55122	Central	OFF-BI-10003291	Office Supplies	Binders	Wilson Jones Leather-Like Binders with DUBLock Round Rings	17.46
47	CA-2015-146703	20-10-2015	25-10-2015	Second Class	PO-18865	Patrick O'Donnell	Consumer	United States	Westland	Michigan	48185	Central	OFF-ST-10001713	Office Supplies	Storage	Gould Plastics 9-Pocket Panel Bin, 18-3/8w x 5-1/4d x 20-1/2h, Black	211.96
48	CA-2017-169194	20-06-2017	25-06-2017	Standard Class	LH-16900	Lena Hernandez	Consumer	United States	Dover	Delaware	19901	East	TEC-AC-10002167	Technology	Accessories	Imation 8gb Micro Traveldrive Usb 2.0 Flash Drive	45
49	CA-2017-169194	20-06-2017	25-06-2017	Standard Class	LH-16900	Lena Hernandez	Consumer	United States	Dover	Delaware	19901	East	TEC-PH-10003988	Technology	Phones	LF Elite 3D Dazzle Designer Hard Case Cover, Lf Stylus Pen and Wiper For Apple iPhone 5c Mini Lite	21.8
50	CA-2016-115742	18-04-2016	22-04-2016	Standard Class	DP-13000	Darren Powers	Consumer	United States	New Albany	Indiana	47150	Central	OFF-BI-10004410	Office Supplies	Binders	C-Line Peel & Stick Add-On Filing Pockets, 8-3/4 x 5-1/8, 10/Pack	38.22

# Rename The Columns

```
ALTER TABLE product_info  
CHANGE `Row ID` row_id INT;
```

```
ALTER TABLE product_info  
CHANGE `Order ID` order_id varchar(60);
```

```
ALTER TABLE product_info  
CHANGE `Order Date` order_date VARCHAR(255)
```

```
ALTER TABLE product_info  
CHANGE `Ship Date` ship_date varchar(60);
```

```
ALTER TABLE product_info  
CHANGE `Ship Mode` ship_mode varchar(60);
```

```
ALTER TABLE product_info  
CHANGE `Customer ID` customer_id varchar(60);
```

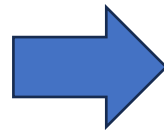
```
ALTER TABLE product_info  
CHANGE `Postal Code` postal_code varchar(60);
```

```
ALTER TABLE product_info  
CHANGE `Product ID` product_id varchar(60);
```

```
ALTER TABLE product_info  
CHANGE `Product Name` product_name varchar(255);
```

# Before And After Rename

Row ID	
Order ID	
Order Date	
Ship Date	
Ship Mode	
Customer ID	
Customer Name	
Postal Code	
Product ID	
Product Name	



Field
row_id
order_id
order_date
ship_date
ship_mode
customer_id
Customer Name
Segment
Country
City
State
postal_code
Region
product_id
Category
Sub-Category
product_name
Sales

# Changing Data Types

	Field	Type
►	row_id	int
	order_id	varchar(60)
	order_date	varchar(255)
	ship_date	varchar(60)
	ship_mode	varchar(60)
	customer_id	varchar(60)
	Customer Name	text
	Segment	text
	Country	text
	City	text
	State	text
	postal_code	varchar(60)
	Region	text
	product_id	varchar(60)
	Category	text
	Sub-Category	text
	product_name	varchar(255)
	Sales	double



	Field	Type
	row_id	int
	order_id	varchar(60)
	order_date	date
	ship_date	date
	ship_mode	varchar(60)
	customer_id	varchar(60)
	customer_name	varchar(255)
	Segment	varchar(250)
	Country	text
	City	text
	State	text
	postal_code	int
	Region	text
	product_id	varchar(60)
	Category	text
	Sub-Category	text
	product_name	varchar(255)
	Sales	double

```
alter table product_info  
modify column order_date date;
```

```
alter table product_info  
modify column ship_date date;
```

```
alter table product_info  
modify column postal_code int;
```

```
alter table product_info  
modify column Segment varchar(250);
```



## 1.Show only unique Ship Mode types

- select distinct ship\_mode from product\_info;

	ship_mode
►	Second Class
	Standard Class
	First Class

## 2.List all orders where Sales > 500

select \* from product\_info  
where sales > 500 ;

	ship_date	ship_mode	customer_id	customer_name	Segment	Country	City	State	postal_code	Region	product_id	Category	Sub-Category	product_name	Sales
	2017-11-11	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	FUR-CH-10000454	Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs,...	731.94
	2016-10-18	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	957.5775
	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002275	Technology	Phones	Mitel 5320 IP Phone VoIP phone	907.152
	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-TA-10001539	Furniture	Tables	Chromcraft Rectangular Conference Tables	1706.184
	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002033	Technology	Phones	Konftel 250 Conference phone - Charcoal black	911.424
	2015-11-18	Standard Class	PK-19075	Pete Kriz	Consumer	United States	Madison	Wisconsin	53711	Central	OFF-ST-1000 OFF-ST-10004186	Office Supplies	Storage	Stur-D-Stor Shelving, Vertical 5-Shelf: 72"H x 3...	665.88
	2016-09-30	Standard Class	EB-13870	Emily Burns	Consumer	United States	Orem	Utah	84057	West	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	1044.63
	2016-09-21	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-BO-10004834	Furniture	Bookcases	Riverside Palais Royal Lawyers Bookcase, Royal...	3083.43
	2017-12-10	First Class	GH-14485	Gene Hale	Corporate	United States	Richardson	Texas	75080	Central	TEC-PH-10004977	Technology	Phones	GE 30524EE4	1097.544
	2016-12-31	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	FUR-BO-10002545	Furniture	Bookcases	Atlantic Metals Mobile 3-Shelf Bookcases, Custo...	532.3992
	2017-12-17	Standard Class	JM-15265	Janet Molinari	Corporate	United States	New York City	New York	10024	East	TEC-PH-10002447	Technology	Phones	AT&T CL83451 4-Handset Telephone	1029.95
	2015-12-10	Standard Class	BS-11590	Brendan Sweed	Corporate	United States	Gilbert	Arizona	85234	West	OFF-AR-10002671	Office Supplies	Art	Hunt BOSTON Model 1606 High-Volume Electric ...	1113.024
	2016-05-02	Standard Class	JE-15745	Joel Eaton	Consumer	United States	Memphis	Tennessee	38109	South	FUR-CH-10000513	Furniture	Chairs	High-Back Leather Manager's Chair	831.936
	2016-03-06	Standard Class	DK-13090	Dave Kipp	Consumer	United States	Seattle	Washington	98103	West	FUR-TA-10001768	Furniture	Tables	Hon Racetrack Conference Tables	787.53
	2015-12-28	Second Class	AD-10180	Alan Dominguez	Home Office	United States	Houston	Texas	77041	Central	FUR-CH-10004063	Furniture	Chairs	Global Deluxe High-Back Manager's Chair	600.558
	2015-09-25	Standard Class	PF-19165	Philip Fox	Consumer	United States	Bloomington	Illinois	61701	Central	FUR-TA-10004534	Furniture	Tables	Bevis 44 x 96 Conference Tables	617.7
	2018-12-27	Standard Class	SG-20080	Sandra Glassco	Consumer	United States	Independence	Missouri	64055	Central	OFF-AP-10001058	Office Supplies	Appliances	Sanyo 2.5 Cubic Foot Mid-Size Office Refrigerat...	839.43
	2016-09-12	Standard Class	HA-14920	Helen Andreada	Consumer	United States	Pasadena	California	91104	West	OFF-ST-10003656	Office Supplies	Storage	Safco Industrial Wire Shelving	671.93

### 3.Orders from a specific city or state

Select \* from product\_info where city = "Houston" ;

row_id	order_id	order_date	ship_date	ship_mode	customer_id	customer_name	Segment	Country	City	State	postal_code	Region	product_id	Category	Sub-Category	product_name
35	CA-2018-107727	2018-10-19	2018-10-23	Second Class	MA-17560	Matt Abelman	Home Office	United States	Houston	Texas	77095	Central	OFF-PA-10000249	Office Supplies	Paper	Easy-staple paper
38	CA-2016-117415	2016-12-27	2016-12-31	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	OFF-EN-10002986	Office Supplies	Envelopes	#10-4 1/8" x 9 1/2" Premium Dia
39	CA-2016-117415	2016-12-27	2016-12-31	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	FUR-BO-10002545	Furniture	Bookcases	Atlantic Metals Mobile 3-Shelf Boo
40	CA-2016-117415	2016-12-27	2016-12-31	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	FUR-CH-10004218	Furniture	Chairs	Global Fabric Manager's Chair, Da
41	CA-2016-117415	2016-12-27	2016-12-31	Standard Class	SN-20710	Steve Nguyen	Home Office	United States	Houston	Texas	77041	Central	TEC-PH-10000486	Technology	Phones	Plantronics HL10 Handset Lifter
76	US-2018-118038	2018-12-09	2018-12-11	First Class	KB-16600	Ken Brennan	Corporate	United States	Houston	Texas	77041	Central	OFF-BI-10004182	Office Supplies	Binders	Economy Binders
78	US-2018-118038	2018-12-09	2018-12-11	First Class	KB-16600	Ken Brennan	Corporate	United States	Houston	Texas	77041	Central	OFF-ST-10000615	Office Supplies	Storage	SimpliFile Personal File, Black Gran

### 4.Top 10 orders with highest sales.

```
select * from product_info
order by sales desc
limit 10;
```

hip_date	ship_mode	customer_id	customer_name	Segment	Country	City	State	postal_code	Region	product_id	Category	Sub-Category	product_name	Sales
16-09-21	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-BO-10004834	Furniture	Bookcases	Riverside Palais Royal Lawyers Bookcase, Royal...	3083.43
15-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-TA-10001539	Furniture	Tables	Chromcraft Rectangular Conference Tables	1706.184
15-12-10	Standard Class	BS-11590	Brendan Sweed	Corporate	United States	Gilbert	Arizona	85234	West	OFF-AR-10002671	Office Supplies	Art	Hunt BOSTON Model 1606 High-Volume Electric ...	1113.024
17-12-10	First Class	GH-14485	Gene Hale	Corporate	United States	Richardson	Texas	75080	Central	TEC-PH-10004977	Technology	Phones	GE 30524EE4	1097.544
16-09-30	Standard Class	EB-13870	Emily Burns	Consumer	United States	Orem	Utah	84057	West	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	1044.63
17-12-17	Standard Class	JM-15265	Janet Molinari	Corporate	United States	New York City	New York	10024	East	TEC-PH-10002447	Technology	Phones	AT&T CL83451 4-Handset Telephone	1029.95
16-10-18	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	957.5775
15-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002033	Technology	Phones	Konftel 250 ConferenceÂ phoneÂ - Charcoal black	911.424
15-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002275	Technology	Phones	Mitel 5320 IP Phone VoIP phone	907.152
18-12-27	Standard Class	SG-20080	Sandra Glassco	Consumer	United States	Independence	Missouri	64055	Central	OFF-AP-10001058	Office Supplies	Appliances	Sanyo 2.5 Cubic Foot Mid-Size Office Refrigerat...	839.43



## 5.Orders between two specific dates.

```
select * from product_info
where order_date between '2015-05-13' and '2015-08-13';
```

order_id	order_date	ship_date	ship_mode	customer_id	customer_name	Segment	Country	City	State	postal_code	Region	product_id	Category
CA-2015-115812	2015-06-09	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-FU-10001487	Furniture
CA-2015-115812	2015-06-09	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-AR-10002833	Office Supplies
CA-2015-115812	2015-06-09	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002275	Technology
CA-2015-115812	2015-06-09	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-BI-10003910	Office Supplies
CA-2015-115812	2015-06-09	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	OFF-AP-10002892	Office Supplies
CA-2015-115812	2015-06-09	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-TA-10001539	Furniture
CA-2015-115812	2015-06-09	2015-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10002033	Technology
CA-2015-167164	2015-05-13	2015-05-15	Second Class	AG-10270	Alejandro Grove	Consumer	United States	West Jordan	Utah	84084	West	OFF-ST-10000107	Office Supplies

**Additional query :- who ordered Orders between two specific dates for which cities.**

```
2 • select customer_name,order_id,order_date,city from product_info
3 where order_date between '2015-05-13' and '2015-08-13';
```

customer_name	order_id	order_date	city
Brosina Hoffman	CA-2015-115812	2015-06-09	Los Angeles
Brosina Hoffman	CA-2015-115812	2015-06-09	Los Angeles
Brosina Hoffman	CA-2015-115812	2015-06-09	Los Angeles
Brosina Hoffman	CA-2015-115812	2015-06-09	Los Angeles
Brosina Hoffman	CA-2015-115812	2015-06-09	Los Angeles
Brosina Hoffman	CA-2015-115812	2015-06-09	Los Angeles
Brosina Hoffman	CA-2015-115812	2015-06-09	Los Angeles
Alejandro Grove	CA-2015-167164	2015-05-13	West Jordan



## 6.Total sales by Region.

```
5 • select Region,sum(sales) as total_sales
7   from product_info
3   group by Region;
```

Region	total_sales
South	4153.6995000000001
West	10189.2780000000002
Central	7939.6341999999999
East	6327.3280000000001



## Additional query :-Total sales by Region with rounded values

```
6 • select Region,round(sum(sales)) as total_sales
7   from product_info
3   group by Region;
```

Region	total_sales
South	4154
West	10189
Central	7940
East	6327

## 7.Average sales by Ship Mode.

```
1 • select ship_mode,avg(sales) as avg_sales from product_info
2   group by ship_mode;
```

ship_mode	avg_sales
Second Class	125.6823448275862
Standard Class	241.11079666666666
First Class	125.58384615384615



## Additional query :- Average sales by Ship Mode with rounded values

```
3 • select ship_mode,round(avg(sales)) as avg_sales from product_info
4   group by ship_mode;
```

ship_mode	avg_sales
Second Class	126
Standard Class	241
First Class	126

## 8.Count of orders per Segment.

```
8 • select segment, count(order_id) as orders from product_info
9 group by segment;
```

segment	orders
Consumer	92
Corporate	33
Home Office	20

## 10.Number of orders per state, showing only states with more than 10 orders.

```
select state, count(order_id) as orders
from product_info
group by state
having orders > 10
order by orders desc;
```

state	orders
California	37
Texas	14
New York	12

## 9.Customers with total sales above 1000.

```
select customer_id, customer_name, round(sum(sales)) as total_sales
from product_info
group by customer_id, customer_name
having total_sales > 1000
order by total_sales desc;
```

customer_id	customer_name	total_sales
BH-11710	Brosina Hoffman	3714
TB-21520	Tracy Blumstein	3342
GH-14485	Gene Hale	1288
BS-11590	Brendan Sweed	1281
SN-20710	Steve Nguyen	1229
EB-13870	Emily Burns	1045
JM-15265	Janet Molinari	1045
JE-15745	Joel Eaton	1021

## 11. Find products that contain the word "Chair".

```
select Category, sub_category, product_name from product_info
where sub_category like '%chairs%';
```

Category	sub_category	product_name
Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs,...
Furniture	Chairs	Global Deluxe Stacking Chair, Gray
Furniture	Chairs	Global Fabric Manager's Chair, Dark Gray
Furniture	Chairs	Global Leather Task Chair, Black
Furniture	Chairs	Novimex Turbo Task Chair
Furniture	Chairs	Global Value Mid-Back Manager's Chair, Gray
Furniture	Chairs	High-Back Leather Manager's Chair
Furniture	Chairs	Novimex Swivel Fabric Task Chair
Furniture	Chairs	Global Deluxe High-Back Manager's Chair
Furniture	Chairs	Global Task Chair, Black

## 12. Customers whose names start with "S".

```
select customer_id, customer_name from product_info
where customer_name like 's%';
```

customer_id	customer_name
SO-20335	Sean O'Donnell
SO-20335	Sean O'Donnell
SF-20065	Sandra Flanagan
SN-20710	Steve Nguyen
SN-20710	Steve Nguyen
SN-20710	Steve Nguyen
SN-20710	Steve Nguyen
SN-20710	Steve Nguyen
SC-20770	Stewart Carmichael
SC-20770	Stewart Carmichael
SC-20725	Steven Cartwright
SC-20725	Steven Cartwright
SC-20725	Steven Cartwright
SC-20725	Steven Cartwright
SC-20725	Steven Cartwright

### 13.Orders shipped in 2015.

```
select order_id, ship_date from product_info
where year (ship_date) = 2015;
```

order_id	ship_date
CA-2015-115812	2015-06-14
CA-2015-115812	2015-06-14
CA-2015-115812	2015-06-14
CA-2015-115812	2015-06-14
CA-2015-115812	2015-06-14
CA-2015-115812	2015-06-14
CA-2015-105893	2015-11-18
CA-2015-167164	2015-05-15
CA-2015-143336	2015-09-01
CA-2015-143336	2015-09-01
CA-2015-143336	2015-09-01
CA-2015-146703	2015-10-25
CA-2015-106376	2015-12-10

### 15.Count how many orders were placed each month.

```
select year(order_date) as order_year,
month(order_date) as order_month,
count(*) as total_orders
from product_info
group by order_year,order_month
order by order_year,order_month;
```

order_year	order_month	total_orders
2015	5	1
2015	6	7
2015	8	7
2015	9	1
2015	10	4
2015	11	2
2015	12	3
2016	1	3
2016	3	1
2016	4	9
2016	9	9
2016	10	3
2016	11	8
2016	12	4

### 14.Days between order and ship date

```
select order_date,ship_date,
datediff(ship_date,order_date) as days_to_ship
from product_info;
```

order_date	ship_date	days_to_ship
2017-11-08	2017-11-11	3
2017-11-08	2017-11-11	3
2017-06-12	2017-06-16	4
2016-10-11	2016-10-18	7
2016-10-11	2016-10-18	7
2015-06-09	2015-06-14	5
2015-06-09	2015-06-14	5
2015-06-09	2015-06-14	5
2015-06-09	2015-06-14	5
2015-06-09	2015-06-14	5
2015-06-09	2015-06-14	5
2018-04-15	2018-04-20	5
2017-12-05	2017-12-10	5
2016-11-22	2016-11-26	4
2016-11-22	2016-11-26	4
2015-11-11	2015-11-18	7
2015-05-13	2015-05-15	2
2015-08-27	2015-09-01	5

### Additional query:- Top 5 orders placed in a month & year

```
select year(order_date) as order_year,
month(order_date) as order_month,
count(*) as total_orders
from product_info
group by order_year,order_month
order by total_orders desc
limit 5;
```

order_year	order_month	total_orders
2017	6	18
2016	9	9
2016	4	9
2017	12	9
2016	11	8



## 16. Rank products by total sales.

```
select product_id,product_name,  
round(sum(sales)) as total_sales,  
rank() over (order by sum(sales) desc) as sales_rank  
from product_info  
group by product_id,product_name;
```

product_id	product_name	total_sales	sales_rank
FUR-BO-10004834	Riverside Palais Royal Lawyers Bookcase, Royal...	3083	1
FUR-TA-10000577	Bretford CR4500 Series Slim Rectangular Table	2002	2
FUR-TA-10001539	Chromcraft Rectangular Conference Tables	1706	3
OFF-AR-10002671	Hunt BOSTON Model 1606 High-Volume Electric ...	1113	4
TEC-PH-10004977	GE 30524EE4	1098	5
TEC-PH-10002447	AT&T CL83451 4-Handset Telephone	1030	6
TEC-PH-10002033	Konftel 250 Conference phone - Charcoal black	911	7
TEC-PH-10002275	Mitel 5320 IP Phone VoIP phone	907	8
OFF-ST-10003656	Safco Industrial Wire Shelving	902	9
OFF-AP-10001058	Sanyo 2.5 Cubic Foot Mid-Size Office Refrigerat...	839	10
FUR-CH-10000513	High-Back Leather Manager's Chair	832	11
FUR-TA-10001768	Hon Racetrack Conference Tables	788	12
FUR-CH-10000454	Hon Deluxe Fabric Upholstered Stacking Chairs,...	732	13
OFF-ST-10004186	Stur-D-Stor Shelving, Vertical 5-Shelf: 72"H x 3...	666	14
FUR-TA-10004534	Bevis 44 x 96 Conference Tables	618	15
FUR-CH-10004063	Global Deluxe High-Back Manager's Chair	601	16
FUR-BO-10002545	Atlantic Metals Mobile 3-Shelf Bookcases, Custo...	532	17
OFF-BI-10003656	Fellowes PB200 Plastic Comb Binding Machine	408	18

# Project Summary & Key Insights

- **Data:** 9800 sales records with customer, order, product, and shipment details
- **Insights:**
  - Most orders were placed in 2017
  - 'Chair' products are among the top-selling
  - West region contributed the highest sales
  - Several customers have total sales over ₹1000
- **Tools:** MySQL Workbench, Excel, PowerPoint

# Top 5 SQL Queries Visualized

- Top 10 orders by sales – highlights biggest transactions
- Total sales by region – West region leads
- Count of monthly orders – peak in November
- Products containing 'Chair' – high-frequency in sales
- Customers with sales > ₹1000 – key high-value clients