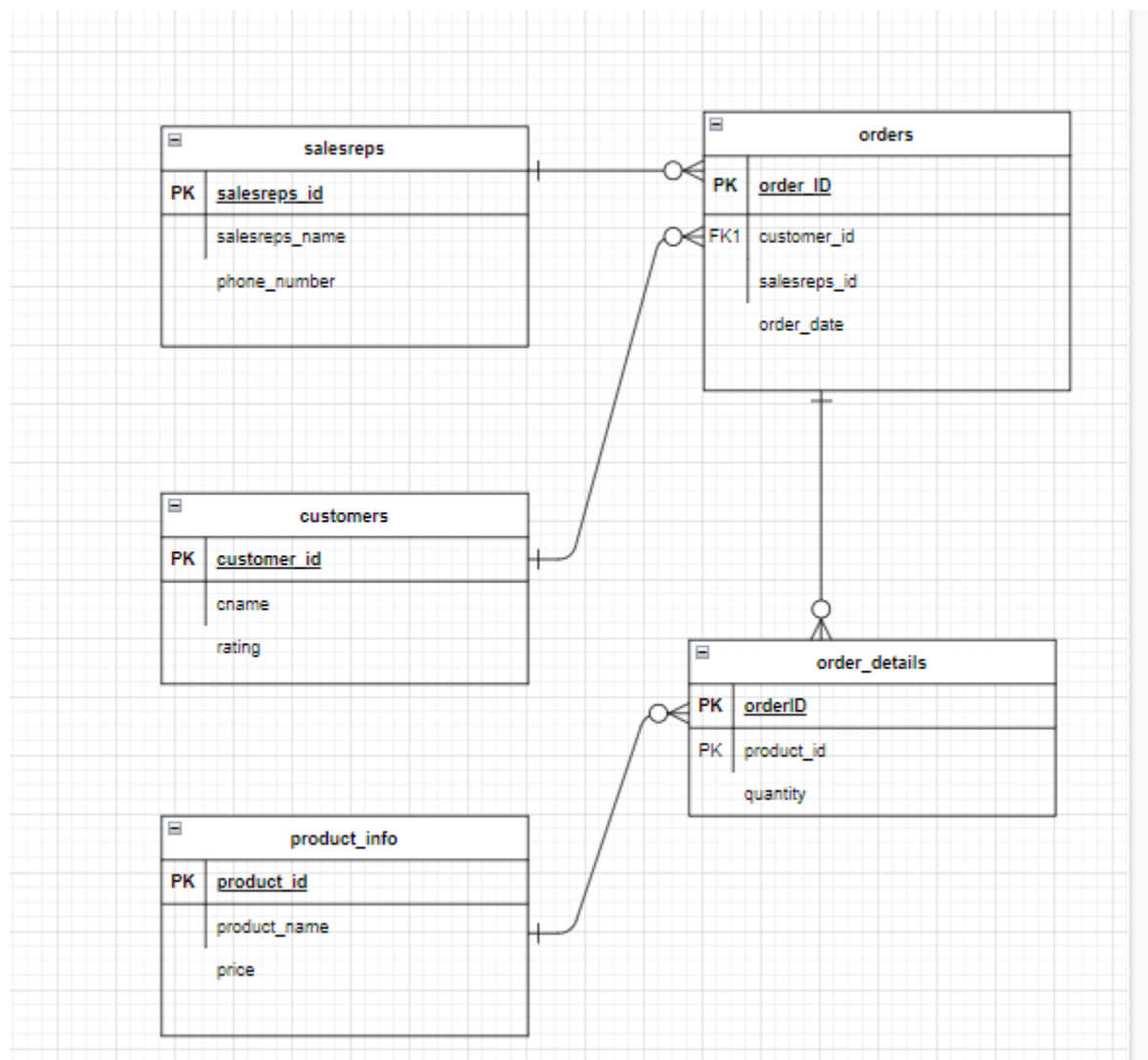


Entity Relationship Diagram



Which product has the highest total sales?

```
1 • SELECT p.pid as productId, p.pname as productName, sum(od.qty) as totalQuantity,  
2    sum(od.qty*price) as totalSales  
3    FROM products as p  
4    INNER JOIN odetails as od on  
5    p.pid=od.pid  
6    GROUP BY p.pid  
7    ORDER BY totalQuantity DESC
```

<				
Result Grid				
Filter Rows:				
Export:				
Wrap Cell Content:				
	productId	productName	totalQuantity	totalSales
▶	P2	SVGA MONITOR	55.0	16500.000
	P1	COMPUTER	45.0	38250.000
	P7	TRACKBALL	35.0	525.000
	P4	HARD DRIVE	30.0	3750.000
	P3	LASER PRINTER	5.0	2650.000
	P5	Wireless MOUSE	5.0	125.000

SVGA monitor is the most popular brand followed by Computer and Trackball.

Total Sales in Month

```
1 • SELECT distinct DATE_FORMAT(orders.odate,"%Y") as year,DATE_FORMAT(orders.odate,"%M") as month,  
2 sum(od.qty) as totalQuantity,sum(od.qty*p.price) as totalSales  
3 FROM orders  
4 INNER JOIN odetails as od on  
5 orders.oid=od.oid  
6 INNER JOIN products as p on  
7 p.pid=od.pid  
8 GROUP BY month  
9 ORDER BY totalSales ASC  
10
```

<





Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	year	month	totalQuantity	totalSales
▶	2019	March	10.0	1250.000
	2019	July	20.0	1400.000
	2019	May	5.0	2650.000
	2019	October	30.0	10275.000
	2019	January	25.0	21250.000
	2019	February	85.0	24975.000

Which products have the highest total sales between October to February?

```
1 • SELECT p.pname, SUM(o.qty * p.price) AS total_sales
2 FROM products p
3 JOIN odetails o ON o.pid = p.pid
4 JOIN orders ord ON ord.oid = o.oid
5 WHERE MONTH(ord.odate) BETWEEN 10 AND 12 OR MONTH(ord.odate) BETWEEN 1 AND 2
6 GROUP BY p.pid
7 ORDER BY total_sales DESC;
8
```

<

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	pname	total_sales
▶	COMPUTER	38250.000
	SVGA MONITOR	16500.000
	HARD DRIVE	1250.000
	TRACKBALL	375.000
	Wireless MOUSE	125.000

Computers have the highest total sales between October to February.

Is there a significant difference between sales of the “Computer” product during the months of October through February and sales during other months?

```
1 • SELECT
2     SUM(CASE WHEN MONTH(o.odate) BETWEEN 10 AND 12 OR MONTH(o.odate) BETWEEN 1 AND 2 THEN od.qty * p.price ELSE 0 END) AS oct_feb_sales,
3     SUM(CASE WHEN MONTH(o.odate) NOT BETWEEN 10 AND 12 AND MONTH(o.odate) NOT BETWEEN 1 AND 2 THEN od.qty * p.price ELSE 0 END) AS other_months_sales
4 FROM odetails od
5 JOIN orders o ON o.oid = od.oid
6 JOIN products p ON p.pid = od.pid
7 WHERE p.pname = 'COMPUTER';
8
```

oct_feb_sales	other_months_sales
38250.000	0.000

During the period between March and September, we do not have any computer sales; however, there is a significant increase in computer sales in October.