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code
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create table prdt
prdid varchar(10) primary key,
prdnm varchar(20),
price int,
qty int,
dt or datetime
insert into prdt values('p1','pencil',250,10,'01-01-2000')
insert into prdt values('p2','pen',350,2,'02-01-2000')
insert into prdt values('p3','soap',25,25,'03-01-2000')
insert into prdt values('p4','powder',50,20,'01-01-2000')
insert into prdt values('p5','bag',500,30,'03-01-2000')
select * from prdt
create table cust
custid int primary key,
custnm varchar(20),
custadd varchar(50),
custph bigint
)
insert into cust values(1,'anu','chennai',123654)
insert into cust values(2,'somu','mumbai',9123654)
insert into cust values(3,'namm','calcutta',8123654)
insert into cust values(4, 'manu', 'hyderabad', 7123654)
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select * from cust
create table sales
custid int foreign key references cust(custid),
prdid varchar(10) foreign key references prdt(prdid),
qty int,
price int,
dt pr datetime
insert into sales values(1,'p1',1,250,'01-02-2000')
insert into sales values(1,'p2',2,250,'02-02-2000')
insert into sales values(2,'p3',3,250,'03-02-2000')
insert into sales values(3,'p1',4,1250,'01-02-2000')
select * from sales
select p.prdid, p.prdnm
from prdt p
left join sales s on p.prdid = s.prdid
where s.prdid is null
select p.prdnm as most_sold_product
from prdt p
join (
  select top 1 prdid
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from sales
  group by prdid
  order by sum(qty) desc
) as most sold on p.prdid = most sold.prdid
select top 1 p.prdnm as most sold product,
    sum(s.qty * s.price) as total_cost_sold
from prdt p
join sales s on p.prdid = s.prdid
group by p.prdnm
order by total cost sold desc
select count(*) as products ordered in jan
from prdt
where month(dt or) = 1
select p.prdnm
from prdt p
join sales s on p.prdid = s.prdid
where year(s.dt pr) = 2000
select c.custnm
from cust c
```

```
join (
  select top 1 custid, sum(qty * price) as total purchase
  from sales
  where month(dt pr) = 1
  group by custid
  order by total purchase desc
) as highest_purchase on c.custid = highest_purchase.custid
select c.custnm
from cust c
left join (
  select distinct custid
  from sales
  where month(dt pr) = 1
) as jan customers on c.custid = jan customers.custid
where jan customers.custid is null
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select c.custnm
from cust c
join (
  select custid, sum(qty * price) as total purchase
  from sales
  group by custid
) as customer purchase on c.custid = customer purchase.custid
where customer purchase.total purchase > 4000
```