- Cosc 2132 Spring 2008 Assign 3
- 1. Trane, ordernum (Customer Morders & Ogty >50 Orderlist)
- 2. IT cid, name Customer (Ticid, is bn Order Mordenlist / Wishn Ogty>o Book)

 9ty-in. stock
- 3, p (OL2 (1-ordernum2, 2-) ishn 2) Order List)
 p (OL3 (1-) ordernum 3, 2+) ishn 3), Order List)
 - Mordernum (Oordernum=ordernum2 Mordernum2=ordernum3 n isbn + isbn 2 / isbn + isbn 3 n isbn 2 + isbn 3. OrderList x 02 x (2)
- 4. p(T1, Ogty-in-stock == gty ~ ship.elate= NULL Order List M Book)

 Tordernum, ishn, cid, address. Customer M Order MT1
- 5. $\rho(B2(1>isbn2, 5>price2), Book)$ $\rho(T1, TIsbn, price(Oprice < price2 Book × B2))$ P(Book I ist without most expensive) $\rho(T2(1>isbn2, 2>price2), T1)$ $\rho(T3, Tisbn, price(Oprice < price2 T1× T2))$ P(Book I ist without 2nd most expensive) P(Book I ist without 2nd most expensive)

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-- 01
select isbn as ans1_isbn, sum(qty) as ans1_sum
from orderlist
where ship_date is null
group by isbn;
-- Q2
select c.name as ans2_cname
from customer c
where c.cid in (
  (select o.cid
  from order o, orderlist ol, book b
  where o.ordernum = ol.ordernum and ol.isbn = b.isbn
  and b.title like 'Database Management Systems')
  intersect
  (select o2.cid
  from order o2, orderlist o12, book b2
 where o2.ordernum = o12.ordernum and o12.isbn = b2.isbn
  and b2.title like 'Operating Systems: Internals and Design Principles')
);
-- Q3
select o.cid as ans3_cid
from order o
where not exists (
  select *
  from book b
 where b.author like 'Robert Jordan'
  and not exists (
    select *
    from order o2, orderlist ol2
   where o2.ordernum = o12.ordernum and o2.cid = o.cid and o12.isbn = b.isbn
 )
);
-- Q4
create or replace view exclude_most_expensive_book as (
  select *
 from book b
 where not b.price = ( select max(b2.price) from book b2)
select isbn as ans4_isbn, title, author
from exclude_most_expensive_book e1
where el.price = (select max(price) from exclude_most_expensive_book);
create or replace view order_total as (
  select ol.ordernum, sum(ol.qty) as totalqty, sum(ol.qty * b.price) as totalcost
  from orderlist ol, book b
 where ol.isbn = b.isbn
  group by ol.ordernum
);
select ordernum as ans5_ordernum, totalcost / totalqty as ans5_avg_cost
from order_total;
```