Q1.

d)

e)

a)
$$\pi_{age} \big((\pi_{cid}Orders - \pi_{cid}((\sigma_{year \leq 2000}Books)) \bowtie Orders) \big) \bowtie Customers)$$
 b)
$$\pi_{cname} \big((\pi_{cid}Orders \bowtie (\sigma_{author = "EdgarCodd"}Books) - \pi_{cid}((\sigma_{price > 100}Books) \bowtie Orders) \big) \\ \bowtie Customers)$$
 c)
$$\pi_{zipcode} \left((\pi_{bid}(\sigma_{author = "EdgarCodd"}bname = "Databases"}Books) \right) \bowtie \sigma_{quantity \geq 20}Orders \\ \bowtie Customers)$$

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https://powcoder.com

 $\begin{array}{c} \pi_{cname.zipcode}((\pi_{bid}B1 - \pi_{B1.bid}(B1 \bowtie_{(B1.price < B2.price)} B2)) \bowtie \textit{Orders} \bowtie \textit{Customers}) \\ \text{Add} & \text{WeChat powcoder} \end{array}$

 $\rho(C1, Customers)$ $\rho(C2, Customers)$ $\rho(B1, \pi_{bid}(Orders \bowtie \left(\pi_{cid}C1 - \pi_{C1.cid}\left(C1 \bowtie_{(C1.age > C2.age)} C2\right)\right)) \bowtie Books)$ $\rho(B2, B1)$ $\pi_{btitle}((\pi_{bid}B1 - \pi_{B1.bid}(B1 \bowtie_{(B1.price < B2.price)} B2)) \bowtie Books)$

```
Q2.
a)
SELECT DISTINCT C.zipcode
FROM Customers C WHERE NOT EXISTS(
   SELECT B.year FROM Books B
   MINUS
   SELECT B1.year FROM Orders O, Books B1
   WHERE O.bid=B1.bid AND O.cid = C.cid AND O.quantity >= 1
   )
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b)
SELECT C.cid, MAX(B.price)
FROM Customers Christops Dowcoder.com
WHERE C.cid=O.cid AND O.bid=B.bid
              Add WeChat powcoder
HAVING 10,000 <= SUM( O.quantity * B.price )
c)
SELECT DISTINCT C.age
FROM Customers C, Orders O
WHERE C.cid = O.cid AND C.cid NOT IN (
   SELECT O1.cid
   FROM Orders O1, Books B
   WHERE O1.bid=B.bid AND NOT B.title LIKE "%Databases%"
   )
```

```
d)
```

SELECT C.age

FROM Customers C, Orders O, Books B

WHERE C.cid=O.cid AND O.bid=B.bid AND B.price =

(SELECT MAX(B1.price)

FROM Books B1, Orders O1

WHERE B1.bid=O1.bid)

e)

SELECT TMP.cname

FROM A (SELECT GENERAL PROPERTY FOR COLOR PROPERTY AND THE PROPERTY AND TH

FROM Customers C, Orders O, Books B

where it it provided and the state of the st

GROUP BY C.cid, C.cname

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WHERE TMP.DollarAmount = (SELECT MAX(DollarAmount) FROM TMP)