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-- 1
-- a
SELECT * FROM dealer CROSS JOIN client

-- b
SELECT *
FROM client
RIGHT OUTER JOIN dealer ON client.dealer_id = dealer.id
RIGHT OUTER JOIN sell ON sell.client_id = client.id

-- C
SELECT dealer.id, dealer.name, client.id, client.name
FROM dealer
INNER JOIN client
ON dealer.location = client.city

--D
SELECT sell.id, sell.amount, client.name, client.city
FROM sell
INNER JOIN client
ON sell.client_id = client.id
WHERE sell.amount BETWEEN 100 AND 500

-- E
SELECT dealer.id, dealer.name, count(client.id) FROM dealer
LEFT OUTER JOIN client
ON dealer.id = client.dealer_id
GROUP BY dealer.id, dealer.name

-- F
SELECT dealer.id, dealer.name, client.id, client.name, client.city,
dealer.charge
FROM dealer
INNER JOIN client
ON dealer.id = client.dealer_id

-- G
SELECT client.name, client.city, dealer.name, dealer.charge
FROM dealer
LEFT OUTER JOIN client
ON dealer.id = client.dealer_id
WHERE dealer.charge > 0.12

-- H
SELECT client.name, client.city, sell.id, sell.date, sell.amount,
dealer.name, dealer.charge FROM client
LEFT OUTER JOIN sell
ON client.id = sell.client_id
LEFT OUTER JOIN dealer
ON dealer.id = sell.dealer_id;

-- I
SELECT client.name, client.priority, dealer.name, sell.id, sell.amount
FROM client
RIGHT OUTER JOIN dealer ON dealer.id = client.dealer id
LEFT OUTER JOIN sell ON sell.client_id = client.id
WHERE sell.amount >= 2000 AND client.priority IS NOT NULL;

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-- 2
-- A
CREATE VIEW V1 AS

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SELECT sell.date, count(client.id), avg(sell.amount), sum(sell.amount)
FROM sell
INNER JOIN client ON client.id = sell.client_id
GROUP BY sell.date
ORDER BY sell.date;
SELECT * FROM V1;

-- B
CREATE VIEW V2 AS
SELECT sell.date, sum(sell.amount)
FROM sell
INNER JOIN client ON client.id = sell.client_id
GROUP BY sell.date
ORDER BY sum(-sell.amount);
SELECT * FROM V2 LIMIT 5;

-- C
CREATE VIEW V3 AS
SELECT dealer.id, count(sell.id), avg(sell.amount), sum(sell.amount)
FROM sell
INNER JOIN dealer ON sell.dealer_id = dealer.id
GROUP BY dealer.id;
SELECT * FROM V3;

-- D
CREATE VIEW V4 AS
SELECT dealer.location, count(sell.dealer_id), sum(sell.amount),
avg(sell.amount), sum(sell.amount * dealer.charge) AS TOTAL
FROM sell
INNER JOIN dealer ON dealer.id = sell.dealer_id
GROUP BY dealer.location;
SELECT * FROM V4;
DROP VIEW V4;

-- E
CREATE VIEW V5 AS
SELECT dealer.location, count(sell.id), avg(sell.amount),
sum(sell.amount) AS S1
FROM sell
INNER JOIN dealer ON dealer.id = sell.dealer_id
GROUP BY dealer.location;
SELECT * FROM V5;
DROP VIEW V5;

-- F
CREATE VIEW V6 AS
SELECT client.city, count(sell.id), avg(sell.amount), sum(sell.amount) AS
S2
FROM sell
INNER JOIN client ON client.id = sell.client_id
GROUP BY client.city;
SELECT * FROM V6;
DROP VIEW V6;

-- G
SELECT * FROM V5
RIGHT JOIN V6 ON V5.location = V6.city
WHERE V5.S1 < V6.S2 OR (V5.location IS NULL AND V6.city IS NOT NULL)

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