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--Exercise 1
--a)
SELECT *
FROM dealer CROSS JOIN client;

--b)
SELECT
dealer.id,dealer.name,client.id,client.name,client.city,client.priority,sell.
id,sell.date,sell.amount
FROM dealer INNER JOIN client ON dealer.id = client.dealer_id
INNER JOIN sell ON client.id = sell.client_id;

--c)
SELECT dealer.id,dealer.name,client.id,client.name,client.city
FROM dealer INNER JOIN client ON dealer.location = client.city;

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

--e)
SELECT dealer.id,dealer.name,client.id,client.name
FROM client RIGHT JOIN dealer ON client.dealer_id = dealer.id;

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

--g)
SELECT client.id,client.name,client.city,dealer.id,dealer.name,dealer.charge
FROM client INNER JOIN dealer ON client.dealer_id = dealer.id AND
dealer.charge>0.12;

--h)
SELECT
client.id,client.name,client.city,sell.id,sell.date,sell.amount,dealer.id,dea
ler.name,dealer.charge
FROM client LEFT JOIN dealer ON client.dealer_id = dealer.id
LEFT JOIN sell ON client.id = sell.client_id;

--i)
SELECT
client.id,client.name,client.priority,dealer.id,dealer.name,sell.id,sell.amou
nt
FROM client INNER JOIN dealer ON client.dealer_id = dealer.id
LEFT JOIN sell ON client.id = sell.client_id
WHERE sell.amount>=2000 AND client.priority IS NOT NULL;

--Exercise 2
--a)
CREATE OR REPLACE VIEW a AS
SELECT date,COUNT(client_id),AVG(amount),SUM(amount)
FROM sell
GROUP BY date;

--b)
CREATE OR REPLACE VIEW b AS
SELECT date,SUM(amount)
FROM sell
GROUP BY date
ORDER BY SUM(amount) DESC
LIMIT 5;

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--c)
CREATE OR REPLACE VIEW c AS
SELECT dealer_id, COUNT(dealer_id), AVG(amount), SUM(amount)
FROM sell
GROUP BY dealer_id;

--d)
CREATE OR REPLACE VIEW d AS
SELECT sell.dealer_id, COUNT(sell.dealer_id), SUM(sell.amount)*dealer.charge
FROM sell INNER JOIN dealer ON sell.dealer_id = dealer.id
GROUP BY sell.dealer_id, dealer.charge;

--e)
CREATE VIEW e AS
SELECT client.city, COUNT(client.city), SUM(sell.amount), AVG(sell.amount)
FROM client INNER JOIN sell ON client.dealer_id = sell.client_id
GROUP BY client.city;

--f)
CREATE VIEW f AS
SELECT client.city, COUNT(client.city), SUM(sell.amount), AVG(sell.amount)
FROM client INNER JOIN sell ON client.id = sell.client_id
GROUP BY client.city;

--g)
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