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1. [10 pts] Find the store_ids, cities, and phone numbers for all stores named 'Jackson Food Store'.

a) [7 pts] SQL Query:

```
SELECT DISTINCT S.store_id, S.city, S.phone  
FROM Stores S  
WHERE name = 'Jackson Food Store'
```

b) [3 pts] Result: (2 Rows)

	store_id	city	phone
▶	5baf6653-29bb-486e-8e89-ce20ca9553d2	East Michael	378.051.6499
	a86e890b-2d3f-41dc-bf8d-692c486dd2b7	Port Angelica	126-883-7733
★	NULL	NULL	NULL

2. [10 pts] List the phone numbers and phone types for customers who own at least one 'Toyota' car.

a) [7 pts] SQL Query:

```
SELECT DISTINCT UP.number, UP.type
FROM userphone UP
WHERE UP.user_id IN ( SELECT DISTINCT O.user_id
                      FROM own O, vehicles V
                      WHERE O.state = V.state AND
                            O.license_plate = V.license_plate AND V.make = 'Toyota')
```

b) [3 pts] Result: (4 Rows)

	number	type
▶	+1-829-389-8969x6479	OFFICE
	303-738-3023x771	OFFICE
	976-701-7200x99251	HOME
	(857)597-8440	OFFICE

3. [10 pts] List the product ID, name, and list_price of products that are associated with one or more orders with a total_price greater than \$300.

a) [7 pts] SQL Query:

```
SELECT DISTINCT P.product_id, P.name, P.list_price
FROM products P
WHERE P.product_id IN ( SELECT DISTINCT OI.product_id
                        FROM orderitems OI, orders O
                        WHERE OI.order_id = O.order_ID AND O.total_price > 300)
```

b) [3 pts] Result: (10 Rows)

	product_id	name	list_price
▶	d581f828-2a4f-4798-ae72-bf3e4ee79c5a	O Organics Organic Eggs Large Brown - 18 Count	7.99
	b2cbcafe-a5fe-4774-ab08-e349ce5000d3	SKIPPY Peanut Butter Spread Super Chunk Extr...	3.69
	887956f1-1efa-4b54-81ed-065930878e29	White Castle Microwaveable Cheeseburgers - 8 ...	13.49
	9436ff97-44d5-48ce-8eee-dc3c2304fc2b	Open Nature Whole Roasted Chicken Hot - Each	9.99
	9222abd0-3327-4039-9c4f-9b599e11a44f	Poise Pads Ultimate Absorbency Long Length - ...	19.99
	3ae8446f-85e9-4c36-9abb-8c145cf9cd2f	Green Bell Peppers	0.99
	0b3fa8b6-a276-4af8-8f18-d598e01b1b37	Ore-Ida Potatoes Shredded Tater Tots Season...	4.99
	9c47f80b-eba6-4c38-9e80-4c7bfa4dc0f	Tyson Fully Cooked Crispy Chicken Strips - 25 Oz	8.99
	8955f852-a2ab-416f-b0d6-3eb046299940	Hinode Rice White Calrose Medium Grain - 5 Lb	6.99
	eb6809b3-4eae-4dcc-91c2-44e76da2ca98	Red Bull Energy Drink Sugar Free - 4-8.4 Fl. Oz.	8.39

4. [15 pts] Find the ID's of all shoppers who have fulfilled at least one order with a total price greater than \$75 and who do not have a capacity.

a) [12 pts] SQL Query:

```
SELECT DISTINCT O.shopper_id
FROM orders O
WHERE O.total_price > 75 AND O.shopper_id IN (SELECT DISTINCT S.user_id
                                              FROM shoppers S
                                              WHERE S.capacity IS NULL)
```

b) [3 pts] Result: (4 Rows)

	shopper_id
▶	07afe1c5-1f37-40f4-9132-a7635a344fd7
	156d2344-227b-448a-b4e2-c460435b3a73
	59b5b7a3-86dd-4d81-a278-99ace15605ee
	c14826b8-ab2a-4ee2-9bdd-3860c4cd6141

5. [15 pts] Find the email addresses of all customers who ordered from both 'Quick Chek Food Stores' and 'Jackson Food Store' and who use 'hotmail.com' as their email service provider.

a) [12 pts] SQL Query:

```
SELECT DISTINCT U.email
FROM user U, orders O, orders O2
WHERE O.store_id IN (SELECT DISTINCT S.store_id
                     FROM stores S
                     WHERE S.name = 'Quick Chek Food Stores')
AND O2.store_id IN (SELECT DISTINCT S.store_id
                    FROM stores S
                    WHERE S.name = 'Jackson Food Store')
AND U.email LIKE '%@hotmail.com%'
AND U.user_id = O.customer_id
AND U.user_id = O2.customer_id
```

b) [3 pts] Result: (2 Rows)

	email
▶	awade@hotmail.com
	flynnpaul@hotmail.com

6. [15 pts] List the first names, last names, and emails of customers who have ordered from every 'Border Station'.

a) [12 pts] SQL Query:

```
SELECT DISTINCT U.first_name, U.last_name, U.email
FROM user U
WHERE NOT EXISTS (SELECT DISTINCT S.store_id
                  FROM stores S
                  WHERE NOT EXISTS (SELECT DISTINCT O.store_id
                                    FROM orders O
                                    WHERE S.store_id = O.store_id
                                    AND U.user_id = O.customer_id)
                  AND S.name = 'Border Station')
```

b) [3 pts] Result: (2 Rows)

	first_name	last_name	email
▶	Christopher	Stewart	uwalker@gmail.com
	Leah	Sloan	tkelly@hotmail.com

7. [10 pts] Find the number of orders and the minimum and maximum pickup delays (the duration in time from order placement to desired order pickup) for same-day orders. (Be sure to give your result's columns meaningful names.)

a) [7 pts] SQL Query:

```
SELECT DISTINCT COUNT(*) AS 'ORDERS PLACED WITHIN DAY',  
MIN(timediff(O.pickup_time, O.time_placed)) AS 'MINIMUM PICK UP DELAY',  
MAX(timediff(O.pickup_time, O.time_placed)) AS 'MAXIMUM PICK UP DELAY'  
FROM orders O  
WHERE date(O.time_placed) = date(O.pickup_time)
```

b) [3 pts] Result: (1 Row)

	ORDERS PLACED WITHIN DAY	MINIMUM PICK UP DELAY	MAXIMUM PICK UP DELAY
►	5	02:24:13	18:37:41

8. [15 pts] List the store_id, store name, and total sales (based on the quantities and prices of the items that a store has sold) for stores that have sold more than 50 items. Organize the list in descending order of sales and list only the top 5 stores in this ordering. (Be sure to give your result's columns meaningful names.)

a) [12 pts] SQL Query:

```
SELECT DISTINCT S.store_id, S.name, SUM(O.total_price) AS 'TOTAL SALES'
FROM stores S, orders O, orderitems OI
WHERE S.store_id = O.store_id AND O.order_id = OI.order_id
GROUP BY S.store_id
HAVING SUM(OI.qty) > 50
ORDER BY SUM(O.total_price) DESC
LIMIT 5
```

b) [3 pts] Result: (5 Rows)

	store_id	name	TOTAL SALES
►	54fc5281-3225-45a5-ba89-591eb7b9387b	Casey's Cove Convenience Store	3594.90
	a86e890b-2d3f-41dc-bf8d-692c486dd2b7	Jackson Food Store	1691.59
	4b4444b5-4700-4868-978e-651a0a999085	Plaid Pantry	1403.64
	2bf28b95-60a3-4cd7-a47c-628a2e4d3247	Cefco	1210.53
	45934ce4-a6aa-47ad-991f-a8bc9675562f	Cefco	1012.82