# QuizTake-Home Exercise: Joins

Total Score: /6

#### **Printed Name:**

#### Rules:

- 1. You MAY use any printed or handwritten notes.
- 2. You MAY NOT use a computer or any other electronic device.
- 3. You MAY NOT discuss this quiz with any other human.

**Note:** You are allowed to use any resources you want, but you should try to solve these by hand before typing them into postgres.

**Instructions:** For each problem, write the output of the given SQL command. Assume that the following tables/rows have been added to the database:

```
CREATE TABLE basket_a (
        a INT PRIMARY KEY,
 2
 3
        fruit_a VARCHAR (100) NOT NULL
 4
   );
 5
 6
   CREATE TABLE basket_b (
 7
       b INT PRIMARY KEY,
        fruit_b VARCHAR (100) NOT NULL
 8
 9
   );
10
   INSERT INTO basket_a (a, fruit_a)
11
12
   VALUES
13
        (1, 'Apple'),
        (2, 'Orange'),
14
        (3, 'Banana'),
15
16
        (4, 'Cucumber');
17
18
   INSERT INTO basket_b (b, fruit_b)
19
   VALUES
20
        (1, 'Orange'),
21
        (2, 'Apple'),
        (3, 'Watermelon'),
22
23
        (4, 'Pear');
```

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Рr	'nh	lem	1:

1 SELECT fruit\_a FROM basket\_a NATURAL JOIN basket\_b;

## Problem 2:

1 SELECT fruit\_a FROM basket\_a NATURAL JOIN basket\_b UNION (SELECT fruit\_a FROM basket\_a);

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1 SELECT fruit\_a,fruit\_b FROM basket\_a LEFT JOIN basket\_b ON (b>a);

## Problem 4:

1 SELECT fruit\_a, fruit\_b FROM basket\_a FULL OUTER JOIN basket\_b ON (fruit\_b=fruit\_a);

## Problem 5:

1 SELECT fruit\_a,fruit\_b FROM basket\_a JOIN basket\_b ON (b != a);

## Problem 6:

1 SELECT fruit\_a, fruit\_b FROM basket\_a RIGHT OUTER JOIN basket\_b ON (fruit\_b<fruit\_a);