

**\*\* ALL RESULTS WERE CORRECT!!**

Sample Queries	Test path/steps	Expected Result	Generated Result
SELECT c.ssn, name, gender, dob, phone, eyecolor, weight, height, prior_marriage, interest_in, date_open, date_close, status, interest_category.interest, interest_category.category FROM Client c LEFT JOIN client_interests ON c.ssn = client_interests.ssn LEFT JOIN interest_category on client_interests.interest = interest_category.interest WHERE gender = 'female' and client_interests.interest = 'golf';	Shows the ability of clients and specialists to search for a match based on physical characteristics and interests.	ssn   name   gender   dob   phone   eyecolor   weight   height   prior_marriage   interest_in   date_open   date_close   status   interest   category   +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ -+   145783475   Jennie   female   1981-07-19   2028855700   green   120   64   no   male   2017-04-06   NULL   active   golf   sports   +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ -+	ssn   name   gender   dob   phone   eyecolor   weight   height   prior_marriage   interest_in   date_open   date_close   status   interest   category   +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ -+   145783475   Jennie   female   1981-07-19   2028855700   green   120   64   no   male   2017-04-06   NULL   active   golf   sports   +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+-----+-----+ -+
SELECT AVG (COUNT) as c FROM (SELECT c1_ssn, c2_ssn, COUNT(*) count FROM dates GROUP BY c1_ssn, c2_ssn) as P;	Should show the average number of dates that a couple (same two people) goes on.	+-----+   c   +-----+   1.4000   +-----+	+-----+   c   +-----+   1.4000   +-----+
SELECT distinct(interest) as i FROM Client c LEFT JOIN client_interests on c.ssn = client_interests.ssn WHERE c.status = 'active' AND interest != 'NULL';	Show all distinct interests that are recorded for the active clients.	+-----+   i   +-----+   golf     3D printing     football	+-----+   i   +-----+   golf     3D printing     football

		stamp collecting     piano     tennis     coin collecting     woodwork     painting     volleyball     guitar     sewing   +-----+	stamp collecting     piano     tennis     coin collecting     woodwork     painting     volleyball     guitar     sewing   +-----+
SELECT ssn, sum(payment_amount) as p FROM Fees WHERE fee_status = 'unpaid' GROUP BY ssn;	Displays the social security number and the total payment due (unpaid) for each client who owes money.	+-----+-----+   ssn   p   +-----+-----+   101987923   50     443453242   100     465173892   100   +-----+-----+	+-----+-----+   ssn   p   +-----+-----+   101987923   50     443453242   100     465173892   100   +-----+-----+
SELECT AVG(count) as c FROM (select DATEDIFF('2018-04-30', childDOB)/365.25 as count From Children) as P;	Displays the average age of the client's children	+-----+   c   +-----+   10.66803559   +-----+	+-----+   c   +-----+   10.66803559   +-----+
SELECT distinct crime as c from criminalRecord;	Displays the distinct types of crimes committed.	+-----+   c   +-----+   drug possession     arson     burglary     money laundering   +-----+	+-----+   c   +-----+   drug possession     arson     burglary     money laundering   +-----+
SELECT COUNT(*) as num FROM CLIENT C group by gender;		+-----+   num   +-----+	+-----+   num   +-----+

		<pre>   6     5   +----+ </pre>	<pre>   6     5   +----+ </pre>
SELECT COUNT(*) as married FROM CLIENT C WHERE prior_marriage = 'yes';		<pre> +-----+   married   +-----+   5   +-----+ </pre>	<pre> +-----+   married   +-----+   5   +-----+ </pre>
SELECT c.ssn as s, name, gender, dob, phone, eyecolor, weight, height, prior_marriage, interest_in, date_open, date_close, status FROM Client c Left Join Dates on c.ssn = dates.c1_ssn or c.ssn = dates.c2_ssn group by c.ssn Having Count(c.ssn) = 2;	Displays the characteristics of the clients who have had exactly 2 dates	<pre> +-----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+   s        name   gender   dob        phone      eyecolor   weight   height   prior_marriage   interest_in   date_open   date_close   status   +-----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+   203948290   Ava   female   1985-12-19   2158837483   blue     135   67   yes        male      2016-12-02   NULL     active   +-----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+ </pre>	<pre> +-----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+   s        name   gender   dob        phone      eyecolor   weight   height   prior_marriage   interest_in   date_open   date_close   status   +-----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+   203948290   Ava   female   1985-12-19   2158837483   blue     135   67   yes        male      2016-12-02   NULL     active   +-----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+-----+-----+ -----+-----+ </pre>
INSERT INTO dates (c1_ssn, c2_ssn, location, scheduled_date, occurred, interested, see_again) VALUES (443453242, 145783475, Falafel Inc, ‘2018-05-05’, NULL, NULL,	The client whose ssn is 443453242 already has 6 dates. Adding another date for him should charge him another registration fee, but give him the match for free. Before the	<pre> +-----+-----+-----+ ---+-----+-----+   ssn      date_incurred   fee_type   payment_amount   fee_status   +-----+-----+-----+ </pre>	<pre> +-----+-----+-----+ ---+-----+-----+   ssn      date_incurred   fee_type   payment_amount   fee_status   +-----+-----+-----+ </pre>

<p>NULL);</p> <p>SELECT * FROM fees WHERE ssn = 443453242;</p> <p>SELECT * FROM fees WHERE ssn = 145783475;</p>	<p>execution of these queries, he has 4 match fees and one registration fee.</p> <p>The client whose ssn is 145783475 had one date previously, and had only the registration fee. She should not be charged a match fee, since this is her second match.</p> <p>This enters a date between 145783475 and 443453242 and displays the resulting fees for each of them.</p>	<pre> ---+-----+-----+   443453242   2016-09-02   registration fee        100   paid       443453242   2016-12-10   match fee                  50   paid       443453242   2017-01-15   match fee                  50   paid       443453242   2017-04-10   match fee                  50   unpaid     443453242   2018-01-28   match fee                  50   unpaid     443453242   2018-04-26   registration fee        100   unpaid   +-----+-----+-----+ ---+-----+-----+  +-----+-----+-----+ ---+-----+-----+   ssn        date_incurred   fee_type   payment_amount   fee_status   +-----+-----+-----+ ---+-----+-----+   145783475   2017-04-06   registration fee        100   paid     +-----+-----+-----+ ---+-----+-----+ </pre>	<pre> ---+-----+-----+   443453242   2016-09-02   registration fee        100   paid       443453242   2016-12-10   match fee                  50   paid       443453242   2017-01-15   match fee                  50   paid       443453242   2017-04-10   match fee                  50   unpaid     443453242   2018-01-28   match fee                  50   unpaid     443453242   2018-04-26   registration fee        100   unpaid   +-----+-----+-----+ ---+-----+-----+  +-----+-----+-----+ ---+-----+-----+   ssn        date_incurred   fee_type   payment_amount   fee_status   +-----+-----+-----+ ---+-----+-----+   145783475   2017-04-06   registration fee        100   paid     +-----+-----+-----+ ---+-----+-----+ </pre>
<p>SELECT DISTINCT client.ssn, client.name from client left join client_interests on client.ssn = client_interests.ssn left join children on children.ssn = client.ssn left join interest_category on interest_category.interest = client_interests.interest WHERE gender = 'male' AND client_interests.interest = 'volleyball'</p>	<p>Searches for a non-criminal male without children who likes volleyball.</p>	<pre> +-----+-----+   ssn        name   +-----+-----+   443453242   Jacob   +-----+-----+ </pre>	<pre> +-----+-----+   ssn        name   +-----+-----+   443453242   Jacob   +-----+-----+ </pre>

AND childName is null AND status = 'active';			
SELECT DISTINCT client.ssn, client.name from client left join client_interests on client.ssn = client_interests.ssn left join children on children.ssn = client.ssn left join interest_category on interest_category.interest = client_interests.interest WHERE gender = 'female' AND interest_category.category = 'sports' AND status = 'active';	Searches for a non-criminal female who likes sports.	<pre>+-----+-----+   ssn     name   +-----+-----+   145783475   Jennie   +-----+-----+</pre>	<pre>+-----+-----+   ssn     name   +-----+-----+   145783475   Jennie   +-----+-----+</pre>
INSERT INTO Client (ssn, name, gender, dob, phone, eyecolor, weight, height, prior_marriage, interest_in, date_open, date_close, status) VALUES (231758473, 'Marissa', 'female', '1986-02-22', '2029380192', 'green', 130, 64, 'no', 'male', '2017-04-04', NULL, 'active');  SELECT * FROM Client WHERE ssn = 231758473;	Insert a client and then display the values from the table	Query OK, 1 row affected (0.00 sec) <pre>+-----+-----+-----+-----+ -+-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+   ssn     name   gender   dob     phone     eyecolor   weight   height   prior_marriage   interest_in   date_open   date_close   status   +-----+-----+-----+-----+ -+-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+   231758473   Marissa   female   1986-02-22   2029380192   green   130   64   no   male   2017-04-04   NULL   active   +-----+-----+-----+-----+ -+-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+</pre>	Query OK, 1 row affected (0.00 sec) <pre>+-----+-----+-----+-----+ -+-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+   ssn     name   gender   dob     phone     eyecolor   weight   height   prior_marriage   interest_in   date_open   date_close   status   +-----+-----+-----+-----+ -+-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+   231758473   Marissa   female   1986-02-22   2029380192   green   130   64   no   male   2017-04-04   NULL   active   +-----+-----+-----+-----+ -+-----+-----+-----+-----+ +-----+-----+-----+-----+ +-----+-----+</pre>

INSERT INTO Children (ssn, childName, childDOB, childSTATUS) VALUES (231758473, 'Mark', '2008-07-18', 'full custody');  SELECT * FROM Children WHERE ssn = 231758473;	Insert a child for a client and then show the results	Query OK, 1 row affected (0.01 sec)  <pre> +-----+-----+-----+-----+ -----+   ssn      childName   childDOB       childStatus   +-----+-----+-----+-----+ -----+   231758473   Mark        2008-07-18       full custody   +-----+-----+-----+-----+ -----+ </pre>	Query OK, 1 row affected (0.01 sec)  <pre> +-----+-----+-----+-----+ -----+   ssn      childName   childDOB       childStatus   +-----+-----+-----+-----+ -----+   231758473   Mark        2008-07-18       full custody   +-----+-----+-----+-----+ -----+ </pre>
INSERT INTO FEES (ssn, date_incurred, fee_type, payment_amount, fee_status) VALUES (231758473, '2017-04-04', 'registration fee', 100, 'unpaid');  SELECT * FROM FEES WHERE SSN = 231758473;	Insert a registration fee for the new client and then display that fee	Query OK, 1 row affected (0.01 sec)  <pre> +-----+-----+-----+-----+ ---+-----+-----+-----+   ssn      date_incurred   fee_type   payment_amount   fee_status   +-----+-----+-----+-----+ ---+-----+-----+-----+   231758473   2017-04-04     registration fee        100   unpaid   +-----+-----+-----+-----+ ---+-----+-----+-----+ </pre>	Query OK, 1 row affected (0.01 sec)  <pre> +-----+-----+-----+-----+ ---+-----+-----+-----+   ssn      date_incurred   fee_type   payment_amount   fee_status   +-----+-----+-----+-----+ ---+-----+-----+-----+   231758473   2017-04-04     registration fee        100   unpaid   +-----+-----+-----+-----+ ---+-----+-----+-----+ </pre>
INSERT INTO DATES (c1_ssn, c2_ssn, location, scheduled_date, occurred, interested, see_again) VALUES (231758473, 553128394, 'Starbucks', '2018-01-16', 'yes', 'yes', 'yes');  SELECT * FROM DATES WHERE c1_ssn = 231758473;	Insert a date for the new client and then display that date.	Query OK, 1 row affected (0.00 sec)  <pre> +-----+-----+-----+-----+ -----+-----+-----+-----+ --+   c1_ssn   c2_ssn    location   scheduled_date   occurred   interested   see_again   +-----+-----+-----+-----+ -----+-----+-----+-----+ </pre>	Query OK, 1 row affected (0.00 sec)  <pre> +-----+-----+-----+-----+ -----+-----+-----+-----+ --+   c1_ssn   c2_ssn    location   scheduled_date   occurred   interested   see_again   +-----+-----+-----+-----+ -----+-----+-----+-----+ </pre>

		--+   231758473   553128394   Starbucks   2018-01-16   yes   yes   yes   +-----+-----+-----+----- -----+-----+-----+----- --+	--+   231758473   553128394   Starbucks   2018-01-16   yes   yes   yes   +-----+-----+-----+----- -----+-----+-----+----- --+
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