

Yuwen Sang

COMP 3421 Exercise 7

**Code Output:**

```
runfile('E:/Database Mgmt/COMP 3421 Exercise Week 7.py', wdir='E:/Database Mgmt')
<mysql.connector.connection_cext.CMySQLConnection object at 0x0000013DF1C4DFA0>
('a5',)
('carinsurance',)
('carinsurance_sample',)
('company',)
('exercise5',)
('exercise7',)
('hotel',)
('information_schema',)
('mysql',)
('performance_schema',)
('sakila',)
('skiingdatabase',)
('sys',)
('temp',)
('test',)
('world',)
('boats',)
('reserve',)
('sailors',)
```

Before loading Sailors: select \* from sailors where sid < 10

1) Generates database with 100 boats, 500 sailors, and 5000 reservations

Data Generation done

2) List all the sailors that have reserved at least on blue boat

(3, 'Sue3', 59, 1.0, 3, 37, datetime.date(2020, 2, 1), 37, 'shark37', 5, 'blue')  
(6, 'Sue6', 66, 6.0, 6, 37, datetime.date(2020, 7, 17), 37, 'shark37', 5, 'blue')  
(7, 'Sue7', 62, 1.0, 7, 37, datetime.date(2020, 10, 22), 37, 'shark37', 5, 'blue')  
(17, 'Sue17', 33, 4.0, 17, 37, datetime.date(2020, 4, 22), 37, 'shark37', 5, 'blue')  
(24, 'Sue24', 62, 7.0, 24, 37, datetime.date(2020, 3, 21), 37, 'shark37', 5, 'blue')  
(35, 'Sue35', 42, 3.0, 35, 37, datetime.date(2020, 2, 3), 37, 'shark37', 5, 'blue')  
(37, 'Sue37', 88, 4.0, 37, 37, datetime.date(2020, 3, 21), 37, 'shark37', 5, 'blue')  
(46, 'Sue46', 23, 3.0, 46, 37, datetime.date(2020, 11, 3), 37, 'shark37', 5, 'blue')  
(53, 'Sue53', 31, 10.0, 53, 37, datetime.date(2020, 3, 16), 37, 'shark37', 5, 'blue')  
(57, 'Sue57', 46, 6.0, 57, 37, datetime.date(2020, 5, 7), 37, 'shark37', 5, 'blue')  
(57, 'Sue57', 46, 6.0, 57, 37, datetime.date(2020, 10, 17), 37, 'shark37', 5, 'blue')  
(62, 'Sue62', 25, 8.0, 62, 37, datetime.date(2020, 2, 10), 37, 'shark37', 5, 'blue')  
(89, 'Sue89', 60, 5.0, 89, 37, datetime.date(2020, 11, 24), 37, 'shark37', 5, 'blue')  
(96, 'Sue96', 55, 1.0, 96, 37, datetime.date(2020, 11, 22), 37, 'shark37', 5, 'blue')  
(97, 'Sue97', 78, 8.0, 97, 37, datetime.date(2020, 6, 16), 37, 'shark37', 5, 'blue')  
(108, 'Sue108', 29, 4.0, 108, 37, datetime.date(2020, 12, 18), 37, 'shark37', 5, 'blue')  
(109, 'Sue109', 32, 8.0, 109, 37, datetime.date(2020, 5, 7), 37, 'shark37', 5, 'blue')  
(111, 'Sue111', 33, 4.0, 111, 37, datetime.date(2020, 7, 22), 37, 'shark37', 5, 'blue')  
(120, 'Sue120', 48, 3.0, 120, 37, datetime.date(2020, 8, 5), 37, 'shark37', 5, 'blue')  
(122, 'Sue122', 75, 5.0, 122, 37, datetime.date(2020, 5, 1), 37, 'shark37', 5, 'blue')  
(134, 'Sue134', 35, 8.0, 134, 37, datetime.date(2020, 10, 18), 37, 'shark37', 5, 'blue')  
(138, 'Sue138', 59, 9.0, 138, 37, datetime.date(2020, 6, 11), 37, 'shark37', 5, 'blue')  
(145, 'Sue145', 38, 6.0, 145, 37, datetime.date(2020, 6, 13), 37, 'shark37', 5, 'blue')  
(160, 'Sue160', 73, 2.0, 160, 37, datetime.date(2020, 4, 12), 37, 'shark37', 5, 'blue')  
(177, 'Sue177', 64, 9.0, 177, 37, datetime.date(2020, 6, 7), 37, 'shark37', 5, 'blue')  
(182, 'Sue182', 64, 9.0, 182, 37, datetime.date(2020, 1, 11), 37, 'shark37', 5, 'blue')  
(184, 'Sue184', 63, 4.0, 184, 37, datetime.date(2020, 2, 2), 37, 'shark37', 5, 'blue')

(196, 'Sue196', 24, 6.0, 196, 37, datetime.date(2020, 7, 19), 37, 'shark37', 5, 'blue')

(199, 'Sue199', 83, 7.0, 199, 37, datetime.date(2020, 10, 20), 37, 'shark37', 5, 'blue')

(202, 'Sue202', 82, 1.0, 202, 37, datetime.date(2020, 10, 25), 37, 'shark37', 5, 'blue')

(208, 'Sue208', 90, 6.0, 208, 37, datetime.date(2020, 12, 21), 37, 'shark37', 5, 'blue')

(213, 'Sue213', 56, 7.0, 213, 37, datetime.date(2020, 3, 26), 37, 'shark37', 5, 'blue')

(213, 'Sue213', 56, 7.0, 213, 37, datetime.date(2020, 9, 23), 37, 'shark37', 5, 'blue')

(214, 'Sue214', 30, 5.0, 214, 37, datetime.date(2020, 3, 24), 37, 'shark37', 5, 'blue')

(217, 'Sue217', 89, 3.0, 217, 37, datetime.date(2020, 10, 3), 37, 'shark37', 5, 'blue')

(236, 'Sue236', 40, 3.0, 236, 37, datetime.date(2020, 9, 24), 37, 'shark37', 5, 'blue')

(263, 'Sue263', 68, 6.0, 263, 37, datetime.date(2020, 11, 9), 37, 'shark37', 5, 'blue')

(272, 'Sue272', 25, 6.0, 272, 37, datetime.date(2020, 5, 13), 37, 'shark37', 5, 'blue')

(296, 'Sue296', 46, 8.0, 296, 37, datetime.date(2020, 10, 4), 37, 'shark37', 5, 'blue')

(308, 'Sue308', 25, 3.0, 308, 37, datetime.date(2020, 9, 18), 37, 'shark37', 5, 'blue')

(312, 'Sue312', 46, 9.0, 312, 37, datetime.date(2020, 1, 25), 37, 'shark37', 5, 'blue')

(318, 'Sue318', 75, 4.0, 318, 37, datetime.date(2020, 12, 20), 37, 'shark37', 5, 'blue')

(326, 'Sue326', 81, 4.0, 326, 37, datetime.date(2020, 8, 18), 37, 'shark37', 5, 'blue')

(331, 'Sue331', 40, 1.0, 331, 37, datetime.date(2020, 8, 8), 37, 'shark37', 5, 'blue')

(337, 'Sue337', 97, 8.0, 337, 37, datetime.date(2020, 3, 15), 37, 'shark37', 5, 'blue')

(340, 'Sue340', 53, 9.0, 340, 37, datetime.date(2020, 6, 5), 37, 'shark37', 5, 'blue')

(345, 'Sue345', 82, 5.0, 345, 37, datetime.date(2020, 10, 21), 37, 'shark37', 5, 'blue')

(374, 'Sue374', 42, 5.0, 374, 37, datetime.date(2020, 2, 22), 37, 'shark37', 5, 'blue')

(412, 'Sue412', 82, 10.0, 412, 37, datetime.date(2020, 12, 4), 37, 'shark37', 5, 'blue')

(414, 'Sue414', 52, 7.0, 414, 37, datetime.date(2020, 9, 16), 37, 'shark37', 5, 'blue')

(417, 'Sue417', 55, 2.0, 417, 37, datetime.date(2020, 9, 1), 37, 'shark37', 5, 'blue')

(448, 'Sue448', 34, 5.0, 448, 37, datetime.date(2020, 12, 12), 37, 'shark37', 5, 'blue')

(452, 'Sue452', 93, 4.0, 452, 37, datetime.date(2020, 8, 28), 37, 'shark37', 5, 'blue')

(462, 'Sue462', 97, 2.0, 462, 37, datetime.date(2020, 8, 13), 37, 'shark37', 5, 'blue')

(487, 'Sue487', 53, 3.0, 487, 37, datetime.date(2020, 3, 5), 37, 'shark37', 5, 'blue')

(498, 'Sue498', 55, 4.0, 498, 37, datetime.date(2020, 3, 27), 37, 'shark37', 5, 'blue')

(13, 'Sue13', 95, 5.0, 13, 44, datetime.date(2020, 6, 14), 44, 'shark44', 4, 'blue')

(22, 'Sue22', 47, 8.0, 22, 44, datetime.date(2020, 2, 10), 44, 'shark44', 4, 'blue')

(47, 'Sue47', 53, 5.0, 47, 44, datetime.date(2020, 12, 27), 44, 'shark44', 4, 'blue')

(48, 'Sue48', 67, 9.0, 48, 44, datetime.date(2020, 4, 6), 44, 'shark44', 4, 'blue')

(49, 'Sue49', 52, 6.0, 49, 44, datetime.date(2020, 4, 7), 44, 'shark44', 4, 'blue')

(64, 'Sue64', 64, 7.0, 64, 44, datetime.date(2020, 6, 5), 44, 'shark44', 4, 'blue')

(90, 'Sue90', 29, 9.0, 90, 44, datetime.date(2020, 8, 14), 44, 'shark44', 4, 'blue')

(100, 'Sue100', 45, 10.0, 100, 44, datetime.date(2020, 8, 8), 44, 'shark44', 4, 'blue')

(103, 'Sue103', 35, 2.0, 103, 44, datetime.date(2020, 2, 15), 44, 'shark44', 4, 'blue')

(104, 'Sue104', 46, 7.0, 104, 44, datetime.date(2020, 10, 6), 44, 'shark44', 4, 'blue')

(107, 'Sue107', 38, 9.0, 107, 44, datetime.date(2020, 11, 17), 44, 'shark44', 4, 'blue')

(125, 'Sue125', 19, 4.0, 125, 44, datetime.date(2020, 1, 20), 44, 'shark44', 4, 'blue')

(129, 'Sue129', 33, 5.0, 129, 44, datetime.date(2020, 4, 18), 44, 'shark44', 4, 'blue')

(148, 'Sue148', 54, 4.0, 148, 44, datetime.date(2020, 2, 9), 44, 'shark44', 4, 'blue')

(163, 'Sue163', 64, 8.0, 163, 44, datetime.date(2020, 12, 11), 44, 'shark44', 4, 'blue')

(166, 'Sue166', 58, 8.0, 166, 44, datetime.date(2020, 7, 16), 44, 'shark44', 4, 'blue')

(174, 'Sue174', 91, 1.0, 174, 44, datetime.date(2020, 1, 9), 44, 'shark44', 4, 'blue')

(174, 'Sue174', 91, 1.0, 174, 44, datetime.date(2020, 10, 12), 44, 'shark44', 4, 'blue')

(190, 'Sue190', 54, 7.0, 190, 44, datetime.date(2020, 10, 13), 44, 'shark44', 4, 'blue')

(203, 'Sue203', 45, 2.0, 203, 44, datetime.date(2020, 4, 7), 44, 'shark44', 4, 'blue')

(237, 'Sue237', 67, 10.0, 237, 44, datetime.date(2020, 6, 9), 44, 'shark44', 4, 'blue')

(247, 'Sue247', 40, 7.0, 247, 44, datetime.date(2020, 2, 13), 44, 'shark44', 4, 'blue')

(248, 'Sue248', 59, 5.0, 248, 44, datetime.date(2020, 6, 17), 44, 'shark44', 4, 'blue')

(258, 'Sue258', 44, 5.0, 258, 44, datetime.date(2020, 6, 19), 44, 'shark44', 4, 'blue')

(260, 'Sue260', 70, 10.0, 260, 44, datetime.date(2020, 6, 25), 44, 'shark44', 4, 'blue')

(270, 'Sue270', 46, 6.0, 270, 44, datetime.date(2020, 1, 1), 44, 'shark44', 4, 'blue')

(282, 'Sue282', 44, 5.0, 282, 44, datetime.date(2020, 6, 20), 44, 'shark44', 4, 'blue')

(283, 'Sue283', 66, 3.0, 283, 44, datetime.date(2020, 4, 25), 44, 'shark44', 4, 'blue')

(381, 'Sue381', 53, 4.0, 381, 44, datetime.date(2020, 11, 27), 44, 'shark44', 4, 'blue')

(392, 'Sue392', 68, 8.0, 392, 44, datetime.date(2020, 6, 27), 44, 'shark44', 4, 'blue')

(439, 'Sue439', 87, 10.0, 439, 44, datetime.date(2020, 11, 13), 44, 'shark44', 4, 'blue')

(458, 'Sue458', 78, 10.0, 458, 44, datetime.date(2020, 3, 8), 44, 'shark44', 4, 'blue')

(458, 'Sue458', 78, 10.0, 458, 44, datetime.date(2020, 5, 12), 44, 'shark44', 4, 'blue')

(484, 'Sue484', 92, 3.0, 484, 44, datetime.date(2020, 10, 26), 44, 'shark44', 4, 'blue')

(489, 'Sue489', 91, 3.0, 489, 44, datetime.date(2020, 10, 4), 44, 'shark44', 4, 'blue')

(493, 'Sue493', 31, 3.0, 493, 44, datetime.date(2020, 9, 22), 44, 'shark44', 4, 'blue')

(4, 'Sue4', 63, 3.0, 4, 85, datetime.date(2020, 12, 13), 85, 'shark85', 6, 'blue')

(6, 'Sue6', 66, 6.0, 6, 85, datetime.date(2020, 1, 9), 85, 'shark85', 6, 'blue')

(12, 'Sue12', 20, 2.0, 12, 85, datetime.date(2020, 11, 15), 85, 'shark85', 6, 'blue')

(21, 'Sue21', 85, 8.0, 21, 85, datetime.date(2020, 4, 20), 85, 'shark85', 6, 'blue')

(28, 'Sue28', 96, 7.0, 28, 85, datetime.date(2020, 10, 5), 85, 'shark85', 6, 'blue')

(31, 'Sue31', 62, 1.0, 31, 85, datetime.date(2020, 8, 28), 85, 'shark85', 6, 'blue')

(35, 'Sue35', 42, 3.0, 35, 85, datetime.date(2020, 1, 18), 85, 'shark85', 6, 'blue')

(77, 'Sue77', 58, 5.0, 77, 85, datetime.date(2020, 6, 5), 85, 'shark85', 6, 'blue')

(81, 'Sue81', 80, 9.0, 81, 85, datetime.date(2020, 6, 9), 85, 'shark85', 6, 'blue')

(110, 'Sue110', 55, 2.0, 110, 85, datetime.date(2020, 3, 7), 85, 'shark85', 6, 'blue')

(128, 'Sue128', 94, 7.0, 128, 85, datetime.date(2020, 10, 8), 85, 'shark85', 6, 'blue')

(146, 'Sue146', 26, 2.0, 146, 85, datetime.date(2020, 7, 10), 85, 'shark85', 6, 'blue')

(161, 'Sue161', 62, 5.0, 161, 85, datetime.date(2020, 11, 16), 85, 'shark85', 6, 'blue')

(163, 'Sue163', 64, 8.0, 163, 85, datetime.date(2020, 4, 21), 85, 'shark85', 6, 'blue')

(186, 'Sue186', 24, 3.0, 186, 85, datetime.date(2020, 6, 16), 85, 'shark85', 6, 'blue')

(187, 'Sue187', 80, 4.0, 187, 85, datetime.date(2020, 9, 4), 85, 'shark85', 6, 'blue')

(203, 'Sue203', 45, 2.0, 203, 85, datetime.date(2020, 3, 6), 85, 'shark85', 6, 'blue')

(209, 'Sue209', 69, 9.0, 209, 85, datetime.date(2020, 8, 7), 85, 'shark85', 6, 'blue')

(247, 'Sue247', 40, 7.0, 247, 85, datetime.date(2020, 10, 26), 85, 'shark85', 6, 'blue')

(248, 'Sue248', 59, 5.0, 248, 85, datetime.date(2020, 8, 23), 85, 'shark85', 6, 'blue')

(248, 'Sue248', 59, 5.0, 248, 85, datetime.date(2020, 10, 10), 85, 'shark85', 6, 'blue')

(277, 'Sue277', 37, 1.0, 277, 85, datetime.date(2020, 10, 3), 85, 'shark85', 6, 'blue')

(281, 'Sue281', 33, 7.0, 281, 85, datetime.date(2020, 8, 19), 85, 'shark85', 6, 'blue')  
(297, 'Sue297', 97, 7.0, 297, 85, datetime.date(2020, 7, 5), 85, 'shark85', 6, 'blue')  
(300, 'Sue300', 49, 5.0, 300, 85, datetime.date(2020, 8, 25), 85, 'shark85', 6, 'blue')  
(325, 'Sue325', 41, 4.0, 325, 85, datetime.date(2020, 2, 6), 85, 'shark85', 6, 'blue')  
(339, 'Sue339', 47, 3.0, 339, 85, datetime.date(2020, 1, 7), 85, 'shark85', 6, 'blue')  
(344, 'Sue344', 59, 9.0, 344, 85, datetime.date(2020, 6, 20), 85, 'shark85', 6, 'blue')  
(357, 'Sue357', 63, 2.0, 357, 85, datetime.date(2020, 9, 24), 85, 'shark85', 6, 'blue')  
(358, 'Sue358', 83, 5.0, 358, 85, datetime.date(2020, 3, 5), 85, 'shark85', 6, 'blue')  
(389, 'Sue389', 80, 9.0, 389, 85, datetime.date(2020, 6, 25), 85, 'shark85', 6, 'blue')  
(397, 'Sue397', 91, 8.0, 397, 85, datetime.date(2020, 10, 14), 85, 'shark85', 6, 'blue')  
(397, 'Sue397', 91, 8.0, 397, 85, datetime.date(2020, 12, 14), 85, 'shark85', 6, 'blue')  
(404, 'Sue404', 70, 4.0, 404, 85, datetime.date(2020, 9, 8), 85, 'shark85', 6, 'blue')  
(405, 'Sue405', 97, 1.0, 405, 85, datetime.date(2020, 5, 22), 85, 'shark85', 6, 'blue')  
(429, 'Sue429', 74, 7.0, 429, 85, datetime.date(2020, 5, 6), 85, 'shark85', 6, 'blue')  
(431, 'Sue431', 35, 4.0, 431, 85, datetime.date(2020, 12, 14), 85, 'shark85', 6, 'blue')  
(446, 'Sue446', 65, 6.0, 446, 85, datetime.date(2020, 1, 7), 85, 'shark85', 6, 'blue')  
(458, 'Sue458', 78, 10.0, 458, 85, datetime.date(2020, 7, 10), 85, 'shark85', 6, 'blue')  
(459, 'Sue459', 52, 8.0, 459, 85, datetime.date(2020, 3, 7), 85, 'shark85', 6, 'blue')  
(477, 'Sue477', 82, 7.0, 477, 85, datetime.date(2020, 10, 9), 85, 'shark85', 6, 'blue')  
(486, 'Sue486', 62, 10.0, 486, 85, datetime.date(2020, 8, 10), 85, 'shark85', 6, 'blue')

3) Delete all reservations of blue boats

4) List all sailors that have reserved at least one blue boat

NOTHING