In [2]:
```
!sudo yum groupinstall "Development Tools"
```

```
Loaded plugins: dkms-build-requires, extras_suggestions, langpacks, priorities,
              : update-motd, versionlock
amzn2-core                                               | 3.7 kB     00:00
amzn2extra-docker                                        | 3.0 kB     00:00
amzn2extra-kernel-5.10                                   | 3.0 kB     00:00
centos-extras                                            | 2.9 kB     00:00
copr:copr.fedorainfracloud.org:vbatts:shadow-utils-newxi | 3.3 kB     00:00
https://download.docker.com/linux/centos/2/x86_64/stable/repodata/repomd.xml: [Err
no 14] HTTPS Error 404 - Not Found
Trying other mirror.
libnvidia-container/x86_64/signature                     |  833 B     00:00
libnvidia-container/x86_64/signature                     | 2.1 kB     00:00 !!!
neuron                                                   | 2.9 kB     00:00
nvidia-container-runtime/x86_64/signature                |  833 B     00:00
nvidia-container-runtime/x86_64/signature                | 2.1 kB     00:00 !!!
nvidia-docker/x86_64/signature                           |  833 B     00:00
nvidia-docker/x86_64/signature                           | 2.1 kB     00:00 !!!
(1/2): libnvidia-container/x86_64/primary                  |  25 kB   00:00
(2/2): neuron/primary_db                                   | 108 kB   00:00
libnvidia-container                                                    160/160
61 packages excluded due to repository priority protections
Maybe run: yum groups mark install (see man yum)
No packages in any requested group available to install or update
```

In [9]:
```
!pip3 install sqlalchemy
```

```
Looking in indexes: https://pypi.org/simple, https://pip.repos.neuron.amazonaws.co
m
Requirement already satisfied: sqlalchemy in /home/ec2-user/anaconda3/envs/python
3/lib/python3.10/site-packages (1.4.42)
Requirement already satisfied: greenlet!=0.4.17 in /home/ec2-user/anaconda3/envs/p
ython3/lib/python3.10/site-packages (from sqlalchemy) (1.1.3.post0)
```

In [3]:
```
!pip3 install wheel
```

```
Looking in indexes: https://pypi.org/simple, https://pip.repos.neuron.amazonaws.co
m
Requirement already satisfied: wheel in /home/ec2-user/anaconda3/envs/python3/lib/
python3.10/site-packages (0.37.1)
```

In [2]:
```
import psycopg2
```

In [3]:
```
connection = psycopg2.connect(
    host = "ola201-vishtejpostgre01.cluster-caddif7rrut7.ap-south-1.rds.amazonaws.c
    port = 5432,
    user = 'postgsuperuser',
    password = 'password1!',
    database='postgmaindb'
    )
cursor=connection.cursor()
```

In [4]:
```
cursor.execute("""CREATE TABLE IF NOT EXISTS raviraj2phonebook(phone VARCHAR(32), f
```

In [5]:
```
cursor.execute("""
INSERT INTO raviraj2phonebook(phone, firstname, lastname, address) VALUES('+9170306
```

In [6]:
```
connection.commit()
```

In [7]:
```
postgreSQL_select_Query = "SELECT * FROM raviraj2phonebook ORDER BY lastname"
```

In [8]:
```
cursor.execute(postgreSQL_select_Query)
print("Selecting rows from mobile table using cursor.fetchall")
records = cursor.fetchall()
```

```
Selecting rows from mobile table using cursor.fetchall
```

In [9]:
```
print(records)
```

```
[('+917030655778', 'Raviraj', 'Bhandari', 'Pune'), ('+917030655778', 'Raviraj', 'B
handari', 'Pune'), ('+911234567890', 'shweta', 'chavan', 'Satara')]
```

In [10]:
```
# dynamically insert
print("please enter the details")

fn=input("please enter your first name ---->")
ln=input("please enter your last name ---->")
phn=input("please enter your phone no ---->")
addr=input("please enter your address ---->")


sql1 = """INSERT INTO raviraj2phonebook(phone, firstname, lastname, address) VALUES
cursor.execute(sql1)
```

```
please enter the details
```

In [11]:
```
print(records)
```

```
[('+917030655778', 'Raviraj', 'Bhandari', 'Pune'), ('+917030655778', 'Raviraj', 'B
handari', 'Pune'), ('+911234567890', 'shweta', 'chavan', 'Satara')]
```

In [12]:
```
postgreSQL_select_Query2 = "SELECT * FROM raviraj2phonebook ORDER BY lastname"
```

In [13]:
```
cursor.execute(postgreSQL_select_Query2)
print("Selecting rows from mobile table using cursor.fetchall")
records = cursor.fetchall()
print(records)
```

```
Selecting rows from mobile table using cursor.fetchall
[('+917030655778', 'raj', 'bhandari', 'Pune'), ('+917030655778', 'Raviraj', 'Bhand
ari', 'Pune'), ('+917030655778', 'Raviraj', 'Bhandari', 'Pune'), ('+911234567890',
'shweta', 'chavan', 'Satara')]
```

In [14]:
```
connection.commit()
```

In [15]:
```
#creating trip_info_table

cursor.execute("""CREATE TABLE IF NOT EXISTS raviraj2tripinfo(
id SERIAL PRIMARY KEY,
```

```
pclass integer,
ticket text,
fare float,
cabin text,
embarked text)""")
```

In [16]:
```
connection.commit()
```

In [17]:
```
import pandas as pd
```

In [18]:
```
df = pd.read_csv("s3://stratacent-vish-tej-main/datasets/project3/trip_info.csv")
```

In [19]:
```
df.head(2)
```

Out[19]:

	PassengerId	Pclass	Ticket	Fare	Cabin	Embarked
0	1	3	A/5 21171	7.2500	?	S
1	2	1	PC 17599	71.2833	C85	C

In [20]:
```
#executes
with open("trip_info.csv", 'r') as row:
    next(row)
    cursor.copy_from(row, 'raviraj2tripinfo',sep=",")
```

In [21]:
```
connection.commit()
```

In [22]:
```
cursor.execute("""  select * from raviraj2tripinfo  """)
```

In [23]:
```
row = cursor.fetchone()
while row:
    print(row)
    row = cursor.fetchone()
```

```
(1, 3, 'A/5 21171', 7.25, '?', 'S')
(2, 1, 'PC 17599', 71.2833, 'C85', 'C')
(3, 3, 'STON/O2. 3101282', 7.925, '?', 'S')
(4, 1, '113803', 53.1, 'C123', 'S')
(5, 3, '373450', 8.05, '?', 'S')
(6, 3, '330877', 8.4583, '?', 'Q')
(7, 1, '17463', 51.8625, 'E46', 'S')
(8, 3, '349909', 21.075, '?', 'S')
(9, 3, '347742', 11.1333, '?', 'S')
(10, 2, '237736', 30.0708, '?', 'C')
(11, 3, 'PP 9549', 16.7, 'G6', 'S')
(12, 1, '113783', 26.55, 'C103', 'S')
(13, 3, 'A/5. 2151', 8.05, '?', 'S')
(14, 3, '347082', 31.275, '?', 'S')
(15, 3, '350406', 7.8542, '?', 'S')
(16, 2, '248706', 16.0, '?', 'S')
(17, 3, '382652', 29.125, '?', 'Q')
(18, 2, '244373', 13.0, '?', 'S')
(19, 3, '345763', 18.0, '?', 'S')
(20, 3, '2649', 7.225, '?', 'C')
(21, 2, '239865', 26.0, '?', 'S')
(22, 2, '248698', 13.0, 'D56', 'S')
(23, 3, '330923', 8.0292, '?', 'Q')
(24, 1, '113788', 35.5, 'A6', 'S')
(25, 3, '349909', 21.075, '?', 'S')
(26, 3, '347077', 31.3875, '?', 'S')
(27, 3, '2631', 7.225, '?', 'C')
(28, 1, '19950', 263.0, 'C23 C25 C27', 'S')
(29, 3, '330959', 7.8792, '?', 'Q')
(30, 3, '349216', 7.8958, '?', 'S')
(31, 1, 'PC 17601', 27.7208, '?', 'C')
(32, 1, 'PC 17569', 146.5208, 'B78', 'C')
(33, 3, '335677', 7.75, '?', 'Q')
(34, 2, 'C.A. 24579', 10.5, '?', 'S')
(35, 1, 'PC 17604', 82.1708, '?', 'C')
(36, 1, '113789', 52.0, '?', 'S')
(37, 3, '2677', 7.2292, '?', 'C')
(38, 3, 'A./5. 2152', 8.05, '?', 'S')
(39, 3, '345764', 18.0, '?', 'S')
(40, 3, '2651', 11.2417, '?', 'C')
(41, 3, '7546', 9.475, '?', 'S')
(42, 2, '11668', 21.0, '?', 'S')
(43, 3, '349253', 7.8958, '?', 'C')
(44, 2, 'SC/Paris 2123', 41.5792, '?', 'C')
(45, 3, '330958', 7.8792, '?', 'Q')
(46, 3, 'S.C./A.4. 23567', 8.05, '?', 'S')
(47, 3, '370371', 15.5, '?', 'Q')
(48, 3, '14311', 7.75, '?', 'Q')
(49, 3, '2662', 21.6792, '?', 'C')
(50, 3, '349237', 17.8, '?', 'S')
(51, 3, '3101295', 39.6875, '?', 'S')
(52, 3, 'A/4. 39886', 7.8, '?', 'S')
(53, 1, 'PC 17572', 76.7292, 'D33', 'C')
(54, 2, '2926', 26.0, '?', 'S')
(55, 1, '113509', 61.9792, 'B30', 'C')
(56, 1, '19947', 35.5, 'C52', 'S')
```

```
(57, 2, 'C.A. 31026', 10.5, '?', 'S')
(58, 3, '2697', 7.2292, '?', 'C')
(59, 2, 'C.A. 34651', 27.75, '?', 'S')
(60, 3, 'CA 2144', 46.9, '?', 'S')
(61, 3, '2669', 7.2292, '?', 'C')
(62, 1, '113572', 80.0, 'B28', 'S')
(63, 1, '36973', 83.475, 'C83', 'S')
(64, 3, '347088', 27.9, '?', 'S')
(65, 1, 'PC 17605', 27.7208, '?', 'C')
(66, 3, '2661', 15.2458, '?', 'C')
(67, 2, 'C.A. 29395', 10.5, 'F33', 'S')
(68, 3, 'S.P. 3464', 8.1583, '?', 'S')
(69, 3, '3101281', 7.925, '?', 'S')
(70, 3, '315151', 8.6625, '?', 'S')
(71, 2, 'C.A. 33111', 10.5, '?', 'S')
(72, 3, 'CA 2144', 46.9, '?', 'S')
(73, 2, 'S.O.C. 14879', 73.5, '?', 'S')
(74, 3, '2680', 14.4542, '?', 'C')
(75, 3, '1601', 56.4958, '?', 'S')
(76, 3, '348123', 7.65, 'F G73', 'S')
(77, 3, '349208', 7.8958, '?', 'S')
(78, 3, '374746', 8.05, '?', 'S')
(79, 2, '248738', 29.0, '?', 'S')
(80, 3, '364516', 12.475, '?', 'S')
(81, 3, '345767', 9.0, '?', 'S')
(82, 3, '345779', 9.5, '?', 'S')
(83, 3, '330932', 7.7875, '?', 'Q')
(84, 1, '113059', 47.1, '?', 'S')
(85, 2, 'SO/C 14885', 10.5, '?', 'S')
(86, 3, '3101278', 15.85, '?', 'S')
(87, 3, 'W./C. 6608', 34.375, '?', 'S')
(88, 3, 'SOTON/OQ 392086', 8.05, '?', 'S')
(89, 1, '19950', 263.0, 'C23 C25 C27', 'S')
(90, 3, '343275', 8.05, '?', 'S')
(91, 3, '343276', 8.05, '?', 'S')
(92, 3, '347466', 7.8542, '?', 'S')
(93, 1, 'W.E.P. 5734', 61.175, 'E31', 'S')
(94, 3, 'C.A. 2315', 20.575, '?', 'S')
(95, 3, '364500', 7.25, '?', 'S')
(96, 3, '374910', 8.05, '?', 'S')
(97, 1, 'PC 17754', 34.6542, 'A5', 'C')
(98, 1, 'PC 17759', 63.3583, 'D10 D12', 'C')
(99, 2, '231919', 23.0, '?', 'S')
(100, 2, '244367', 26.0, '?', 'S')
(101, 3, '349245', 7.8958, '?', 'S')
(102, 3, '349215', 7.8958, '?', 'S')
(103, 1, '35281', 77.2875, 'D26', 'S')
(104, 3, '7540', 8.6542, '?', 'S')
(105, 3, '3101276', 7.925, '?', 'S')
(106, 3, '349207', 7.8958, '?', 'S')
(107, 3, '343120', 7.65, '?', 'S')
(108, 3, '312991', 7.775, '?', 'S')
(109, 3, '349249', 7.8958, '?', 'S')
(110, 3, '371110', 24.15, '?', 'Q')
(111, 1, '110465', 52.0, 'C110', 'S')
(112, 3, '2665', 14.4542, '?', 'C')
```

```
(113, 3, '324669', 8.05, '?', 'S')
(114, 3, '4136', 9.825, '?', 'S')
(115, 3, '2627', 14.4583, '?', 'C')
(116, 3, 'STON/O 2. 3101294', 7.925, '?', 'S')
(117, 3, '370369', 7.75, '?', 'Q')
(118, 2, '11668', 21.0, '?', 'S')
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(120, 3, '347082', 31.275, '?', 'S')
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(123, 2, '237736', 30.0708, '?', 'C')
(124, 2, '27267', 13.0, 'E101', 'S')
(125, 1, '35281', 77.2875, 'D26', 'S')
(126, 3, '2651', 11.2417, '?', 'C')
(127, 3, '370372', 7.75, '?', 'Q')
(128, 3, 'C 17369', 7.1417, '?', 'S')
(129, 3, '2668', 22.3583, 'F E69', 'C')
(130, 3, '347061', 6.975, '?', 'S')
(131, 3, '349241', 7.8958, '?', 'C')
(132, 3, 'SOTON/O.Q. 3101307', 7.05, '?', 'S')
(133, 3, 'A/5. 3337', 14.5, '?', 'S')
(134, 2, '228414', 26.0, '?', 'S')
(135, 2, 'C.A. 29178', 13.0, '?', 'S')
(136, 2, 'SC/PARIS 2133', 15.0458, '?', 'C')
(137, 1, '11752', 26.2833, 'D47', 'S')
(138, 1, '113803', 53.1, 'C123', 'S')
(139, 3, '7534', 9.2167, '?', 'S')
(140, 1, 'PC 17593', 79.2, 'B86', 'C')
(141, 3, '2678', 15.2458, '?', 'C')
(142, 3, '347081', 7.75, '?', 'S')
(143, 3, 'STON/O2. 3101279', 15.85, '?', 'S')
(144, 3, '365222', 6.75, '?', 'Q')
(145, 2, '231945', 11.5, '?', 'S')
(146, 2, 'C.A. 33112', 36.75, '?', 'S')
(147, 3, '350043', 7.7958, '?', 'S')
(148, 3, 'W./C. 6608', 34.375, '?', 'S')
(149, 2, '230080', 26.0, 'F2', 'S')
(150, 2, '244310', 13.0, '?', 'S')
(151, 2, 'S.O.P. 1166', 12.525, '?', 'S')
(152, 1, '113776', 66.6, 'C2', 'S')
(153, 3, 'A.5. 11206', 8.05, '?', 'S')
(154, 3, 'A/5. 851', 14.5, '?', 'S')
(155, 3, 'Fa 265302', 7.3125, '?', 'S')
(156, 1, 'PC 17597', 61.3792, '?', 'C')
(157, 3, '35851', 7.7333, '?', 'Q')
(158, 3, 'SOTON/OQ 392090', 8.05, '?', 'S')
(159, 3, '315037', 8.6625, '?', 'S')
(160, 3, 'CA. 2343', 69.55, '?', 'S')
(161, 3, '371362', 16.1, '?', 'S')
(162, 2, 'C.A. 33595', 15.75, '?', 'S')
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(164, 3, '315093', 8.6625, '?', 'S')
(165, 3, '3101295', 39.6875, '?', 'S')
(166, 3, '363291', 20.525, '?', 'S')
(167, 1, '113505', 55.0, 'E33', 'S')
(168, 3, '347088', 27.9, '?', 'S')
```

```
(169, 1, 'PC 17318', 25.925, '?', 'S')
(170, 3, '1601', 56.4958, '?', 'S')
(171, 1, '111240', 33.5, 'B19', 'S')
(172, 3, '382652', 29.125, '?', 'Q')
(173, 3, '347742', 11.1333, '?', 'S')
(174, 3, 'STON/O 2. 3101280', 7.925, '?', 'S')
(175, 1, '17764', 30.6958, 'A7', 'C')
(176, 3, '350404', 7.8542, '?', 'S')
(177, 3, '4133', 25.4667, '?', 'S')
(178, 1, 'PC 17595', 28.7125, 'C49', 'C')
(179, 2, '250653', 13.0, '?', 'S')
(180, 3, 'LINE', 0.0, '?', 'S')
(181, 3, 'CA. 2343', 69.55, '?', 'S')
(182, 2, 'SC/PARIS 2131', 15.05, '?', 'C')
(183, 3, '347077', 31.3875, '?', 'S')
(184, 2, '230136', 39.0, 'F4', 'S')
(185, 3, '315153', 22.025, '?', 'S')
(186, 1, '113767', 50.0, 'A32', 'S')
(187, 3, '370365', 15.5, '?', 'Q')
(188, 1, '111428', 26.55, '?', 'S')
(189, 3, '364849', 15.5, '?', 'Q')
(190, 3, '349247', 7.8958, '?', 'S')
(191, 2, '234604', 13.0, '?', 'S')
(192, 2, '28424', 13.0, '?', 'S')
(193, 3, '350046', 7.8542, '?', 'S')
(194, 2, '230080', 26.0, 'F2', 'S')
(195, 1, 'PC 17610', 27.7208, 'B4', 'C')
(196, 1, 'PC 17569', 146.5208, 'B80', 'C')
(197, 3, '368703', 7.75, '?', 'Q')
(198, 3, '4579', 8.4042, '?', 'S')
(199, 3, '370370', 7.75, '?', 'Q')
(200, 2, '248747', 13.0, '?', 'S')
(201, 3, '345770', 9.5, '?', 'S')
(202, 3, 'CA. 2343', 69.55, '?', 'S')
(203, 3, '3101264', 6.4958, '?', 'S')
(204, 3, '2628', 7.225, '?', 'C')
(205, 3, 'A/5 3540', 8.05, '?', 'S')
(206, 3, '347054', 10.4625, 'G6', 'S')
(207, 3, '3101278', 15.85, '?', 'S')
(208, 3, '2699', 18.7875, '?', 'C')
(209, 3, '367231', 7.75, '?', 'Q')
(210, 1, '112277', 31.0, 'A31', 'C')
(211, 3, 'SOTON/O.Q. 3101311', 7.05, '?', 'S')
(212, 2, 'F.C.C. 13528', 21.0, '?', 'S')
(213, 3, 'A/5 21174', 7.25, '?', 'S')
(214, 2, '250646', 13.0, '?', 'S')
(215, 3, '367229', 7.75, '?', 'Q')
(216, 1, '35273', 113.275, 'D36', 'C')
(217, 3, 'STON/O2. 3101283', 7.925, '?', 'S')
(218, 2, '243847', 27.0, '?', 'S')
(219, 1, '11813', 76.2917, 'D15', 'C')
(220, 2, 'W/C 14208', 10.5, '?', 'S')
(221, 3, 'SOTON/OQ 392089', 8.05, '?', 'S')
(222, 2, '220367', 13.0, '?', 'S')
(223, 3, '21440', 8.05, '?', 'S')
(224, 3, '349234', 7.8958, '?', 'S')
```

```
(225, 1, '19943', 90.0, 'C93', 'S')
(226, 3, 'PP 4348', 9.35, '?', 'S')
(227, 2, 'SW/PP 751', 10.5, '?', 'S')
(228, 3, 'A/5 21173', 7.25, '?', 'S')
(229, 2, '236171', 13.0, '?', 'S')
(230, 3, '4133', 25.4667, '?', 'S')
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(232, 3, '347067', 7.775, '?', 'S')
(233, 2, '237442', 13.5, '?', 'S')
(234, 3, '347077', 31.3875, '?', 'S')
(235, 2, 'C.A. 29566', 10.5, '?', 'S')
(236, 3, 'W./C. 6609', 7.55, '?', 'S')
(237, 2, '26707', 26.0, '?', 'S')
(238, 2, 'C.A. 31921', 26.25, '?', 'S')
(239, 2, '28665', 10.5, '?', 'S')
(240, 2, 'SCO/W 1585', 12.275, '?', 'S')
(241, 3, '2665', 14.4542, '?', 'C')
(242, 3, '367230', 15.5, '?', 'Q')
(243, 2, 'W./C. 14263', 10.5, '?', 'S')
(244, 3, 'STON/O 2. 3101275', 7.125, '?', 'S')
(245, 3, '2694', 7.225, '?', 'C')
(246, 1, '19928', 90.0, 'C78', 'Q')
(247, 3, '347071', 7.775, '?', 'S')
(248, 2, '250649', 14.5, '?', 'S')
(249, 1, '11751', 52.5542, 'D35', 'S')
(250, 2, '244252', 26.0, '?', 'S')
(251, 3, '362316', 7.25, '?', 'S')
(252, 3, '347054', 10.4625, 'G6', 'S')
(253, 1, '113514', 26.55, 'C87', 'S')
(254, 3, 'A/5. 3336', 16.1, '?', 'S')
(255, 3, '370129', 20.2125, '?', 'S')
(256, 3, '2650', 15.2458, '?', 'C')
(257, 1, 'PC 17585', 79.2, '?', 'C')
(258, 1, '110152', 86.5, 'B77', 'S')
(259, 1, 'PC 17755', 512.3292, '?', 'C')
(260, 2, '230433', 26.0, '?', 'S')
(261, 3, '384461', 7.75, '?', 'Q')
(262, 3, '347077', 31.3875, '?', 'S')
(263, 1, '110413', 79.65, 'E67', 'S')
(264, 1, '112059', 0.0, 'B94', 'S')
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(266, 2, 'C.A. 17248', 10.5, '?', 'S')
(267, 3, '3101295', 39.6875, '?', 'S')
(268, 3, '347083', 7.775, '?', 'S')
(269, 1, 'PC 17582', 153.4625, 'C125', 'S')
(270, 1, 'PC 17760', 135.6333, 'C99', 'S')
(271, 1, '113798', 31.0, '?', 'S')
(272, 3, 'LINE', 0.0, '?', 'S')
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(276, 1, '13502', 77.9583, 'D7', 'S')
(277, 3, '347073', 7.75, '?', 'S')
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(288, 3, '349206', 7.8958, '?', 'S')
(289, 2, '237798', 13.0, '?', 'S')
(290, 3, '370373', 7.75, '?', 'Q')
(291, 1, '19877', 78.85, '?', 'S')
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(293, 2, 'SC/Paris 2163', 12.875, 'D', 'C')
(294, 3, '349236', 8.85, '?', 'S')
(295, 3, '349233', 7.8958, '?', 'S')
(296, 1, 'PC 17612', 27.7208, '?', 'C')
(297, 3, '2693', 7.2292, '?', 'C')
(298, 1, '113781', 151.55, 'C22 C26', 'S')
(299, 1, '19988', 30.5, 'C106', 'S')
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(305, 3, 'A/5 2466', 8.05, '?', 'S')
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(307, 1, '17421', 110.8833, '?', 'C')
(308, 1, 'PC 17758', 108.9, 'C65', 'C')
(309, 2, 'P/PP 3381', 24.0, '?', 'C')
(310, 1, 'PC 17485', 56.9292, 'E36', 'C')
(311, 1, '11767', 83.1583, 'C54', 'C')
(312, 1, 'PC 17608', 262.375, 'B57 B59 B63 B66', 'C')
(313, 2, '250651', 26.0, '?', 'S')
(314, 3, '349243', 7.8958, '?', 'S')
(315, 2, 'F.C.C. 13529', 26.25, '?', 'S')
(316, 3, '347470', 7.8542, '?', 'S')
(317, 2, '244367', 26.0, '?', 'S')
(318, 2, '29011', 14.0, '?', 'S')
(319, 1, '36928', 164.8667, 'C7', 'S')
(320, 1, '16966', 134.5, 'E34', 'C')
(321, 3, 'A/5 21172', 7.25, '?', 'S')
(322, 3, '349219', 7.8958, '?', 'S')
(323, 2, '234818', 12.35, '?', 'Q')
(324, 2, '248738', 29.0, '?', 'S')
(325, 3, 'CA. 2343', 69.55, '?', 'S')
(326, 1, 'PC 17760', 135.6333, 'C32', 'C')
(327, 3, '345364', 6.2375, '?', 'S')
(328, 2, '28551', 13.0, 'D', 'S')
(329, 3, '363291', 20.525, '?', 'S')
(330, 1, '111361', 57.9792, 'B18', 'C')
(331, 3, '367226', 23.25, '?', 'Q')
(332, 1, '113043', 28.5, 'C124', 'S')
(333, 1, 'PC 17582', 153.4625, 'C91', 'S')
(334, 3, '345764', 18.0, '?', 'S')
(335, 1, 'PC 17611', 133.65, '?', 'S')
(336, 3, '349225', 7.8958, '?', 'S')
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(340, 1, '113784', 35.5, 'T', 'S')
(341, 2, '230080', 26.0, 'F2', 'S')
(342, 1, '19950', 263.0, 'C23 C25 C27', 'S')
(343, 2, '248740', 13.0, '?', 'S')
(344, 2, '244361', 13.0, '?', 'S')
(345, 2, '229236', 13.0, '?', 'S')
(346, 2, '248733', 13.0, 'F33', 'S')
(347, 2, '31418', 13.0, '?', 'S')
(348, 3, '386525', 16.1, '?', 'S')
(349, 3, 'C.A. 37671', 15.9, '?', 'S')
(350, 3, '315088', 8.6625, '?', 'S')
(351, 3, '7267', 9.225, '?', 'S')
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(354, 3, '349237', 17.8, '?', 'S')
(355, 3, '2647', 7.225, '?', 'C')
(356, 3, '345783', 9.5, '?', 'S')
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(358, 2, '237671', 13.0, '?', 'S')
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(365, 3, '370365', 15.5, '?', 'Q')
(366, 3, 'C 7076', 7.25, '?', 'S')
(367, 1, '110813', 75.25, 'D37', 'C')
(368, 3, '2626', 7.2292, '?', 'C')
(369, 3, '14313', 7.75, '?', 'Q')
(370, 1, 'PC 17477', 69.3, 'B35', 'C')
(371, 1, '11765', 55.4417, 'E50', 'C')
(372, 3, '3101267', 6.4958, '?', 'S')
(373, 3, '323951', 8.05, '?', 'S')
(374, 1, 'PC 17760', 135.6333, '?', 'C')
(375, 3, '349909', 21.075, '?', 'S')
(376, 1, 'PC 17604', 82.1708, '?', 'C')
(377, 3, 'C 7077', 7.25, '?', 'S')
(378, 1, '113503', 211.5, 'C82', 'C')
(379, 3, '2648', 4.0125, '?', 'C')
(380, 3, '347069', 7.775, '?', 'S')
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(382, 3, '2653', 15.7417, '?', 'C')
(383, 3, 'STON/O 2. 3101293', 7.925, '?', 'S')
(384, 1, '113789', 52.0, '?', 'S')
(385, 3, '349227', 7.8958, '?', 'S')
(386, 2, 'S.O.C. 14879', 73.5, '?', 'S')
(387, 3, 'CA 2144', 46.9, '?', 'S')
(388, 2, '27849', 13.0, '?', 'S')
(389, 3, '367655', 7.7292, '?', 'Q')
(390, 2, 'SC 1748', 12.0, '?', 'C')
(391, 1, '113760', 120.0, 'B96 B98', 'S')
(392, 3, '350034', 7.7958, '?', 'S')
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(393, 3, '3101277', 7.925, '?', 'S')
(394, 1, '35273', 113.275, 'D36', 'C')
(395, 3, 'PP 9549', 16.7, 'G6', 'S')
(396, 3, '350052', 7.7958, '?', 'S')
(397, 3, '350407', 7.8542, '?', 'S')
(398, 2, '28403', 26.0, '?', 'S')
(399, 2, '244278', 10.5, '?', 'S')
(400, 2, '240929', 12.65, '?', 'S')
(401, 3, 'STON/O 2. 3101289', 7.925, '?', 'S')
(402, 3, '341826', 8.05, '?', 'S')
(403, 3, '4137', 9.825, '?', 'S')
(404, 3, 'STON/O2. 3101279', 15.85, '?', 'S')
(405, 3, '315096', 8.6625, '?', 'S')
(406, 2, '28664', 21.0, '?', 'S')
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(408, 2, '29106', 18.75, '?', 'S')
(409, 3, '312992', 7.775, '?', 'S')
(410, 3, '4133', 25.4667, '?', 'S')
(411, 3, '349222', 7.8958, '?', 'S')
(412, 3, '394140', 6.8583, '?', 'Q')
(413, 1, '19928', 90.0, 'C78', 'Q')
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(415, 3, 'STON/O 2. 3101269', 7.925, '?', 'S')
(416, 3, '343095', 8.05, '?', 'S')
(417, 2, '28220', 32.5, '?', 'S')
(418, 2, '250652', 13.0, '?', 'S')
(419, 2, '28228', 13.0, '?', 'S')
(420, 3, '345773', 24.15, '?', 'S')
(421, 3, '349254', 7.8958, '?', 'C')
(422, 3, 'A/5. 13032', 7.7333, '?', 'Q')
(423, 3, '315082', 7.875, '?', 'S')
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(425, 3, '370129', 20.2125, '?', 'S')
(426, 3, 'A/4. 34244', 7.25, '?', 'S')
(427, 2, '2003', 26.0, '?', 'S')
(428, 2, '250655', 26.0, '?', 'S')
(429, 3, '364851', 7.75, '?', 'Q')
(430, 3, 'SOTON/O.Q. 392078', 8.05, 'E10', 'S')
(431, 1, '110564', 26.55, 'C52', 'S')
(432, 3, '376564', 16.1, '?', 'S')
(433, 2, 'SC/AH 3085', 26.0, '?', 'S')
(434, 3, 'STON/O 2. 3101274', 7.125, '?', 'S')
(435, 1, '13507', 55.9, 'E44', 'S')
(436, 1, '113760', 120.0, 'B96 B98', 'S')
(437, 3, 'W./C. 6608', 34.375, '?', 'S')
(438, 2, '29106', 18.75, '?', 'S')
(439, 1, '19950', 263.0, 'C23 C25 C27', 'S')
(440, 2, 'C.A. 18723', 10.5, '?', 'S')
(441, 2, 'F.C.C. 13529', 26.25, '?', 'S')
(442, 3, '345769', 9.5, '?', 'S')
(443, 3, '347076', 7.775, '?', 'S')
(444, 2, '230434', 13.0, '?', 'S')
(445, 3, '65306', 8.1125, '?', 'S')
(446, 1, '33638', 81.8583, 'A34', 'S')
(447, 2, '250644', 19.5, '?', 'S')
(448, 1, '113794', 26.55, '?', 'S')
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(449, 3, '2666', 19.2583, '?', 'C')
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(453, 1, '113051', 27.75, 'C111', 'C')
(454, 1, '17453', 89.1042, 'C92', 'C')
(455, 3, 'A/5 2817', 8.05, '?', 'S')
(456, 3, '349240', 7.8958, '?', 'C')
(457, 1, '13509', 26.55, 'E38', 'S')
(458, 1, '17464', 51.8625, 'D21', 'S')
(459, 2, 'F.C.C. 13531', 10.5, '?', 'S')
(460, 3, '371060', 7.75, '?', 'Q')
(461, 1, '19952', 26.55, 'E12', 'S')
(462, 3, '364506', 8.05, '?', 'S')
(463, 1, '111320', 38.5, 'E63', 'S')
(464, 2, '234360', 13.0, '?', 'S')
(465, 3, 'A/S 2816', 8.05, '?', 'S')
(466, 3, 'SOTON/O.Q. 3101306', 7.05, '?', 'S')
(467, 2, '239853', 0.0, '?', 'S')
(468, 1, '113792', 26.55, '?', 'S')
(469, 3, '36209', 7.725, '?', 'Q')
(470, 3, '2666', 19.2583, '?', 'C')
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(472, 3, '315089', 8.6625, '?', 'S')
(473, 2, 'C.A. 34651', 27.75, '?', 'S')
(474, 2, 'SC/AH Basle 541', 13.7917, 'D', 'C')
(475, 3, '7553', 9.8375, '?', 'S')
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(477, 2, '31027', 21.0, '?', 'S')
(478, 3, '3460', 7.0458, '?', 'S')
(479, 3, '350060', 7.5208, '?', 'S')
(480, 3, '3101298', 12.2875, '?', 'S')
(481, 3, 'CA 2144', 46.9, '?', 'S')
(482, 2, '239854', 0.0, '?', 'S')
(483, 3, 'A/5 3594', 8.05, '?', 'S')
(484, 3, '4134', 9.5875, '?', 'S')
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(486, 3, '4133', 25.4667, '?', 'S')
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(488, 1, '11771', 29.7, 'B37', 'C')
(489, 3, 'A.5. 18509', 8.05, '?', 'S')
(490, 3, 'C.A. 37671', 15.9, '?', 'S')
(491, 3, '65304', 19.9667, '?', 'S')
(492, 3, 'SOTON/OQ 3101317', 7.25, '?', 'S')
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(496, 3, '2627', 14.4583, '?', 'C')
(497, 1, '36947', 78.2667, 'D20', 'C')
(498, 3, 'C.A. 6212', 15.1, '?', 'S')
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(514, 1, 'PC 17603', 59.4, '?', 'C')
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(517, 2, 'C.A. 34260', 10.5, 'F33', 'S')
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(524, 1, '111361', 57.9792, 'B18', 'C')
(525, 3, '2700', 7.2292, '?', 'C')
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(537, 1, '113050', 26.55, 'B38', 'S')
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(546, 1, '693', 26.0, '?', 'S')
(547, 2, '2908', 26.0, '?', 'S')
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(550, 2, 'C.A. 33112', 36.75, '?', 'S')
(551, 1, '17421', 110.8833, 'C70', 'C')
(552, 2, '244358', 26.0, '?', 'S')
(553, 3, '330979', 7.8292, '?', 'Q')
(554, 3, '2620', 7.225, '?', 'C')
(555, 3, '347085', 7.775, '?', 'S')
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(594, 3, '364848', 7.75, '?', 'Q')
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(618, 3, 'A/5. 3336', 16.1, '?', 'S')
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(620, 2, '31028', 10.5, '?', 'S')
(621, 3, '2659', 14.4542, '?', 'C')
(622, 1, '11753', 52.5542, 'D19', 'S')
(623, 3, '2653', 15.7417, '?', 'C')
(624, 3, '350029', 7.8542, '?', 'S')
(625, 3, '54636', 16.1, '?', 'S')
(626, 1, '36963', 32.3208, 'D50', 'S')
(627, 2, '219533', 12.35, '?', 'Q')
(628, 1, '13502', 77.9583, 'D9', 'S')
(629, 3, '349224', 7.8958, '?', 'S')
(630, 3, '334912', 7.7333, '?', 'Q')
(631, 1, '27042', 30.0, 'A23', 'S')
(632, 3, '347743', 7.0542, '?', 'S')
(633, 1, '13214', 30.5, 'B50', 'C')
(634, 1, '112052', 0.0, '?', 'S')
(635, 3, '347088', 27.9, '?', 'S')
(636, 2, '237668', 13.0, '?', 'S')
(637, 3, 'STON/O 2. 3101292', 7.925, '?', 'S')
(638, 2, 'C.A. 31921', 26.25, '?', 'S')
(639, 3, '3101295', 39.6875, '?', 'S')
(640, 3, '376564', 16.1, '?', 'S')
(641, 3, '350050', 7.8542, '?', 'S')
(642, 1, 'PC 17477', 69.3, 'B35', 'C')
(643, 3, '347088', 27.9, '?', 'S')
(644, 3, '1601', 56.4958, '?', 'S')
(645, 3, '2666', 19.2583, '?', 'C')
(646, 1, 'PC 17572', 76.7292, 'D33', 'C')
(647, 3, '349231', 7.8958, '?', 'S')
(648, 1, '13213', 35.5, 'A26', 'C')
(649, 3, 'S.O./P.P. 751', 7.55, '?', 'S')
(650, 3, 'CA. 2314', 7.55, '?', 'S')
(651, 3, '349221', 7.8958, '?', 'S')
(652, 2, '231919', 23.0, '?', 'S')
(653, 3, '8475', 8.4333, '?', 'S')
(654, 3, '330919', 7.8292, '?', 'Q')
(655, 3, '365226', 6.75, '?', 'Q')
(656, 2, 'S.O.C. 14879', 73.5, '?', 'S')
(657, 3, '349223', 7.8958, '?', 'S')
(658, 3, '364849', 15.5, '?', 'Q')
(659, 2, '29751', 13.0, '?', 'S')
(660, 1, '35273', 113.275, 'D48', 'C')
(661, 1, 'PC 17611', 133.65, '?', 'S')
(662, 3, '2623', 7.225, '?', 'C')
(663, 1, '5727', 25.5875, 'E58', 'S')
(664, 3, '349210', 7.4958, '?', 'S')
(665, 3, 'STON/O 2. 3101285', 7.925, '?', 'S')
(666, 2, 'S.O.C. 14879', 73.5, '?', 'S')
(667, 2, '234686', 13.0, '?', 'S')
(668, 3, '312993', 7.775, '?', 'S')
(669, 3, 'A/5 3536', 8.05, '?', 'S')
(670, 1, '19996', 52.0, 'C126', 'S')
(671, 2, '29750', 39.0, '?', 'S')
(672, 1, 'F.C. 12750', 52.0, 'B71', 'S')
```

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(673, 2, 'C.A. 24580', 10.5, '?', 'S')
(674, 2, '244270', 13.0, '?', 'S')
(675, 2, '239856', 0.0, '?', 'S')
(676, 3, '349912', 7.775, '?', 'S')
(677, 3, '342826', 8.05, '?', 'S')
(678, 3, '4138', 9.8417, '?', 'S')
(679, 3, 'CA 2144', 46.9, '?', 'S')
(680, 1, 'PC 17755', 512.3292, 'B51 B53 B55', 'C')
(681, 3, '330935', 8.1375, '?', 'Q')
(682, 1, 'PC 17572', 76.7292, 'D49', 'C')
(683, 3, '6563', 9.225, '?', 'S')
(684, 3, 'CA 2144', 46.9, '?', 'S')
(685, 2, '29750', 39.0, '?', 'S')
(686, 2, 'SC/Paris 2123', 41.5792, '?', 'C')
(687, 3, '3101295', 39.6875, '?', 'S')
(688, 3, '349228', 10.1708, '?', 'S')
(689, 3, '350036', 7.7958, '?', 'S')
(690, 1, '24160', 211.3375, 'B5', 'S')
(691, 1, '17474', 57.0, 'B20', 'S')
(692, 3, '349256', 13.4167, '?', 'C')
(693, 3, '1601', 56.4958, '?', 'S')
(694, 3, '2672', 7.225, '?', 'C')
(695, 1, '113800', 26.55, '?', 'S')
(696, 2, '248731', 13.5, '?', 'S')
(697, 3, '363592', 8.05, '?', 'S')
(698, 3, '35852', 7.7333, '?', 'Q')
(699, 1, '17421', 110.8833, 'C68', 'C')
(700, 3, '348121', 7.65, 'F G63', 'S')
(701, 1, 'PC 17757', 227.525, 'C62 C64', 'C')
(702, 1, 'PC 17475', 26.2875, 'E24', 'S')
(703, 3, '2691', 14.4542, '?', 'C')
(704, 3, '36864', 7.7417, '?', 'Q')
(705, 3, '350025', 7.8542, '?', 'S')
(706, 2, '250655', 26.0, '?', 'S')
(707, 2, '223596', 13.5, '?', 'S')
(708, 1, 'PC 17476', 26.2875, 'E24', 'S')
(709, 1, '113781', 151.55, '?', 'S')
(710, 3, '2661', 15.2458, '?', 'C')
(711, 1, 'PC 17482', 49.5042, 'C90', 'C')
(712, 1, '113028', 26.55, 'C124', 'S')
(713, 1, '19996', 52.0, 'C126', 'S')
(714, 3, '7545', 9.4833, '?', 'S')
(715, 2, '250647', 13.0, '?', 'S')
(716, 3, '348124', 7.65, 'F G73', 'S')
(717, 1, 'PC 17757', 227.525, 'C45', 'C')
(718, 2, '34218', 10.5, 'E101', 'S')
(719, 3, '36568', 15.5, '?', 'Q')
(720, 3, '347062', 7.775, '?', 'S')
(721, 2, '248727', 33.0, '?', 'S')
(722, 3, '350048', 7.0542, '?', 'S')
(723, 2, '12233', 13.0, '?', 'S')
(724, 2, '250643', 13.0, '?', 'S')
(725, 1, '113806', 53.1, 'E8', 'S')
(726, 3, '315094', 8.6625, '?', 'S')
(727, 2, '31027', 21.0, '?', 'S')
(728, 3, '36866', 7.7375, '?', 'Q')
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(729, 2, '236853', 26.0, '?', 'S')
(730, 3, 'STON/O2. 3101271', 7.925, '?', 'S')
(731, 1, '24160', 211.3375, 'B5', 'S')
(732, 3, '2699', 18.7875, '?', 'C')
(733, 2, '239855', 0.0, '?', 'S')
(734, 2, '28425', 13.0, '?', 'S')
(735, 2, '233639', 13.0, '?', 'S')
(736, 3, '54636', 16.1, '?', 'S')
(737, 3, 'W./C. 6608', 34.375, '?', 'S')
(738, 1, 'PC 17755', 512.3292, 'B101', 'C')
(739, 3, '349201', 7.8958, '?', 'S')
(740, 3, '349218', 7.8958, '?', 'S')
(741, 1, '16988', 30.0, 'D45', 'S')
(742, 1, '19877', 78.85, 'C46', 'S')
(743, 1, 'PC 17608', 262.375, 'B57 B59 B63 B66', 'C')
(744, 3, '376566', 16.1, '?', 'S')
(745, 3, 'STON/O 2. 3101288', 7.925, '?', 'S')
(746, 1, 'WE/P 5735', 71.0, 'B22', 'S')
(747, 3, 'C.A. 2673', 20.25, '?', 'S')
(748, 2, '250648', 13.0, '?', 'S')
(749, 1, '113773', 53.1, 'D30', 'S')
(750, 3, '335097', 7.75, '?', 'Q')
(751, 2, '29103', 23.0, '?', 'S')
(752, 3, '392096', 12.475, 'E121', 'S')
(753, 3, '345780', 9.5, '?', 'S')
(754, 3, '349204', 7.8958, '?', 'S')
(755, 2, '220845', 65.0, '?', 'S')
(756, 2, '250649', 14.5, '?', 'S')
(757, 3, '350042', 7.7958, '?', 'S')
(758, 2, '29108', 11.5, '?', 'S')
(759, 3, '363294', 8.05, '?', 'S')
(760, 1, '110152', 86.5, 'B77', 'S')
(761, 3, '358585', 14.5, '?', 'S')
(762, 3, 'SOTON/O2 3101272', 7.125, '?', 'S')
(763, 3, '2663', 7.2292, '?', 'C')
(764, 1, '113760', 120.0, 'B96 B98', 'S')
(765, 3, '347074', 7.775, '?', 'S')
(766, 1, '13502', 77.9583, 'D11', 'S')
(767, 1, '112379', 39.6, '?', 'C')
(768, 3, '364850', 7.75, '?', 'Q')
(769, 3, '371110', 24.15, '?', 'Q')
(770, 3, '8471', 8.3625, '?', 'S')
(771, 3, '345781', 9.5, '?', 'S')
(772, 3, '350047', 7.8542, '?', 'S')
(773, 2, 'S.O./P.P. 3', 10.5, 'E77', 'S')
(774, 3, '2674', 7.225, '?', 'C')
(775, 2, '29105', 23.0, '?', 'S')
(776, 3, '347078', 7.75, '?', 'S')
(777, 3, '383121', 7.75, 'F38', 'Q')
(778, 3, '364516', 12.475, '?', 'S')
(779, 3, '36865', 7.7375, '?', 'Q')
(780, 1, '24160', 211.3375, 'B3', 'S')
(781, 3, '2687', 7.2292, '?', 'C')
(782, 1, '17474', 57.0, 'B20', 'S')
(783, 1, '113501', 30.0, 'D6', 'S')
(784, 3, 'W./C. 6607', 23.45, '?', 'S')
```

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(785, 3, 'SOTON/O.Q. 3101312', 7.05, '?', 'S')
(786, 3, '374887', 7.25, '?', 'S')
(787, 3, '3101265', 7.4958, '?', 'S')
(788, 3, '382652', 29.125, '?', 'Q')
(789, 3, 'C.A. 2315', 20.575, '?', 'S')
(790, 1, 'PC 17593', 79.2, 'B82 B84', 'C')
(791, 3, '12460', 7.75, '?', 'Q')
(792, 2, '239865', 26.0, '?', 'S')
(793, 3, 'CA. 2343', 69.55, '?', 'S')
(794, 1, 'PC 17600', 30.6958, '?', 'C')
(795, 3, '349203', 7.8958, '?', 'S')
(796, 2, '28213', 13.0, '?', 'S')
(797, 1, '17465', 25.9292, 'D17', 'S')
(798, 3, '349244', 8.6833, '?', 'S')
(799, 3, '2685', 7.2292, '?', 'C')
(800, 3, '345773', 24.15, '?', 'S')
(801, 2, '250647', 13.0, '?', 'S')
(802, 2, 'C.A. 31921', 26.25, '?', 'S')
(803, 1, '113760', 120.0, 'B96 B98', 'S')
(804, 3, '2625', 8.5167, '?', 'C')
(805, 3, '347089', 6.975, '?', 'S')
(806, 3, '347063', 7.775, '?', 'S')
(807, 1, '112050', 0.0, 'A36', 'S')
(808, 3, '347087', 7.775, '?', 'S')
(809, 2, '248723', 13.0, '?', 'S')
(810, 1, '113806', 53.1, 'E8', 'S')
(811, 3, '3474', 7.8875, '?', 'S')
(812, 3, 'A/4 48871', 24.15, '?', 'S')
(813, 2, '28206', 10.5, '?', 'S')
(814, 3, '347082', 31.275, '?', 'S')
(815, 3, '364499', 8.05, '?', 'S')
(816, 1, '112058', 0.0, 'B102', 'S')
(817, 3, 'STON/O2. 3101290', 7.925, '?', 'S')
(818, 2, 'S.C./PARIS 2079', 37.0042, '?', 'C')
(819, 3, 'C 7075', 6.45, '?', 'S')
(820, 3, '347088', 27.9, '?', 'S')
(821, 1, '12749', 93.5, 'B69', 'S')
(822, 3, '315098', 8.6625, '?', 'S')
(823, 1, '19972', 0.0, '?', 'S')
(824, 3, '392096', 12.475, 'E121', 'S')
(825, 3, '3101295', 39.6875, '?', 'S')
(826, 3, '368323', 6.95, '?', 'Q')
(827, 3, '1601', 56.4958, '?', 'S')
(828, 2, 'S.C./PARIS 2079', 37.0042, '?', 'C')
(829, 3, '367228', 7.75, '?', 'Q')
(830, 1, '113572', 80.0, 'B28', 'S')
(831, 3, '2659', 14.4542, '?', 'C')
(832, 2, '29106', 18.75, '?', 'S')
(833, 3, '2671', 7.2292, '?', 'C')
(834, 3, '347468', 7.8542, '?', 'S')
(835, 3, '2223', 8.3, '?', 'S')
(836, 1, 'PC 17756', 83.1583, 'E49', 'C')
(837, 3, '315097', 8.6625, '?', 'S')
(838, 3, '392092', 8.05, '?', 'S')
(839, 3, '1601', 56.4958, '?', 'S')
(840, 1, '11774', 29.7, 'C47', 'C')
```

```
(841, 3, 'SOTON/O2 3101287', 7.925, '?', 'S')
(842, 2, 'S.O./P.P. 3', 10.5, '?', 'S')
(843, 1, '113798', 31.0, '?', 'C')
(844, 3, '2683', 6.4375, '?', 'C')
(845, 3, '315090', 8.6625, '?', 'S')
(846, 3, 'C.A. 5547', 7.55, '?', 'S')
(847, 3, 'CA. 2343', 69.55, '?', 'S')
(848, 3, '349213', 7.8958, '?', 'C')
(849, 2, '248727', 33.0, '?', 'S')
(850, 1, '17453', 89.1042, 'C92', 'C')
(851, 3, '347082', 31.275, '?', 'S')
(852, 3, '347060', 7.775, '?', 'S')
(853, 3, '2678', 15.2458, '?', 'C')
(854, 1, 'PC 17592', 39.4, 'D28', 'S')
(855, 2, '244252', 26.0, '?', 'S')
(856, 3, '392091', 9.35, '?', 'S')
(857, 1, '36928', 164.8667, '?', 'S')
(858, 1, '113055', 26.55, 'E17', 'S')
(859, 3, '2666', 19.2583, '?', 'C')
(860, 3, '2629', 7.2292, '?', 'C')
(861, 3, '350026', 14.1083, '?', 'S')
(862, 2, '28134', 11.5, '?', 'S')
(863, 1, '17466', 25.9292, 'D17', 'S')
(864, 3, 'CA. 2343', 69.55, '?', 'S')
(865, 2, '233866', 13.0, '?', 'S')
(866, 2, '236852', 13.0, '?', 'S')
(867, 2, 'SC/PARIS 2149', 13.8583, '?', 'C')
(868, 1, 'PC 17590', 50.4958, 'A24', 'S')
(869, 3, '345777', 9.5, '?', 'S')
(870, 3, '347742', 11.1333, '?', 'S')
(871, 3, '349248', 7.8958, '?', 'S')
(872, 1, '11751', 52.5542, 'D35', 'S')
(873, 1, '695', 5.0, 'B51 B53 B55', 'S')
(874, 3, '345765', 9.0, '?', 'S')
(875, 2, 'P/PP 3381', 24.0, '?', 'C')
(876, 3, '2667', 7.225, '?', 'C')
(877, 3, '7534', 9.8458, '?', 'S')
(878, 3, '349212', 7.8958, '?', 'S')
(879, 3, '349217', 7.8958, '?', 'S')
(880, 1, '11767', 83.1583, 'C50', 'C')
(881, 2, '230433', 26.0, '?', 'S')
(882, 3, '349257', 7.8958, '?', 'S')
(883, 3, '7552', 10.5167, '?', 'S')
(884, 2, 'C.A./SOTON 34068', 10.5, '?', 'S')
(885, 3, 'SOTON/OQ 392076', 7.05, '?', 'S')
(886, 3, '382652', 29.125, '?', 'Q')
(887, 2, '211536', 13.0, '?', 'S')
(888, 1, '112053', 30.0, 'B42', 'S')
(889, 3, 'W./C. 6607', 23.45, '?', 'S')
(890, 1, '111369', 30.0, 'C148', 'C')
(891, 3, '370376', 7.75, '?', 'Q')
```

In [31]:

```
import pandas
import sqlalchemy
import sqlalchemy as db
```

In [25]:
```
engine = sqlalchemy.create_engine('postgresql://postgsuperuser:password1!@ola201-vi
#postgres://postgsuperuser:password1!@ola201-vishtejpostgre01.cluster-caddif7rrut7.
```

In [26]:
```
connection = engine.connect()
```

In [37]:
```
metadata = db.MetaData()
raviraj2tripinfo = db.Table('raviraj2tripinfo', metadata, autoload=True, autoload_w
```

In [38]:
```
query = db.select([raviraj2tripinfo])
```

In [39]:
```
ResultProxy = connection.execute(query)
```

In [40]:
```
ResultSet = ResultProxy.fetchall()
```

In [41]:
```
ResultSet[:3]
```

Out[41]:
```
[(1, 3, 'A/5 21171', 7.25, '?', 'S'),
 (2, 1, 'PC 17599', 71.2833, 'C85', 'C'),
 (3, 3, 'STON/O2. 3101282', 7.925, '?', 'S')]
```

In [ ]:
```
#while we are dealing with many dataset
```

In [45]:
```
cursor.close()
connection.close()
```

In [46]:
```
df2 = pd.DataFrame(ResultSet)
df2.columns = ResultSet[0].keys()
```

In [47]:
```
df2.head(10)
```

Out[47]:

	id	pclass	ticket	fare	cabin	embarked
0	1	3	A/5 21171	7.2500	?	S
1	2	1	PC 17599	71.2833	C85	C
2	3	3	STON/O2. 3101282	7.9250	?	S
3	4	1	113803	53.1000	C123	S
4	5	3	373450	8.0500	?	S
5	6	3	330877	8.4583	?	Q
6	7	1	17463	51.8625	E46	S
7	8	3	349909	21.0750	?	S
8	9	3	347742	11.1333	?	S
9	10	2	237736	30.0708	?	C