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

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

In [ ]:
```
!pip3 install psycopg2-binary
```

In [24]:
```
import psycopg2
```

In [39]:
```
connection = psycopg2.connect(
    host = "ola201-vishtejpostgre01.cluster-caddif7rrut7.ap-south-1.rds.a
    port = 5432,
    user = 'postgsuperuser',
    password = 'password1!',
    database='postgmaindb'
    )
cursor=connection.cursor()
```

In [ ]:
```
cursor.execute("""CREATE TABLE IF NOT EXISTS tej2phonebook(phone VARCHAR(
```

In [ ]:
```
cursor.execute("""
INSERT INTO tej2phonebook(phone, firstname, lastname, address) VALUES('+1
```

In [40]:
```
connection.commit()
```

In [ ]:
```
postgreSQL_select_Query = "SELECT * FROM tej2phonebook ORDER BY lastname"
```

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

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

In [ ]:

In [ ]:
```
# 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 tej2phonebook(phone, firstname, lastname, address)
cursor.execute(sql1)
```

In [ ]:
```
postgreSQL_select_Query2 = "SELECT * FROM tej2phonebook ORDER BY lastname
```

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

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

In [41]:
```
cursor.execute("""drop table tej2tripinfo""")
```

In [42]:
```
connection.commit()
```

In [ ]:
```
#now creating trip_info_table
```

In [43]:
```
cursor.execute("""CREATE TABLE IF NOT EXISTS tej2tripinfo(
id SERIAL PRIMARY KEY,
pclass integer,
ticket text,
fare float,
cabin text,
embarked text)""")
```

In [44]:
```
connection.commit()
```

In [ ]:
```
---------------------------------- ignore below
```

In [36]:
```
with open('s3://stratacent-vish-tej-main/datasets/project3/trip_info.csv'
    next(row)
    cursor.copy_from(row, 'tej2tripinfo', sep=',')
```

```
---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
/tmp/ipykernel_21301/667437462.py in <cell line: 1>()
----> 1 with open('s3://stratacent-vish-tej-main/datasets/project3/trip_info.csv', 'r') as row:
      2     next(row)
      3     cursor.copy_from(row, 'tej2tripinfo', sep=',')

FileNotFoundError: [Errno 2] No such file or directory: 's3://stratacent-vish-tej-main/datasets/project3/trip_info.csv'
```

In [ ]:
```
# iam not able to directrly read the csv file ,
```

In [7]:
```
import pandas as pd
```

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

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

In [ ]:
```
--------------------------------till here
```

In [45]:
```
#executes
with open("trip_info.csv", 'r') as row:
    next(row)
    cursor.copy_from(row, 'tej2tripinfo',sep=",")
```

In [47]:
```
connection.commit()
```

In [58]:
```
 cursor.execute(""" select * from tej2tripinfo """)
```

In [ ]:

In [59]:
```
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')
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(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')
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(27, 3, '2631', 7.225, '?', 'C')
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(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')
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(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')
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(41, 3, '7546', 9.475, '?', 'S')
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(43, 3, '349253', 7.8958, '?', 'C')
(44, 2, 'SC/Paris 2123', 41.5792, '?', 'C')
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(46, 3, 'S.C./A.4. 23567', 8.05, '?', 'S')
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(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')
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```

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(63, 1, '36973', 83.475, 'C83', 'S')
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(67, 2, 'C.A. 29395', 10.5, 'F33', 'S')
(68, 3, 'S.P. 3464', 8.1583, '?', 'S')
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(71, 2, 'C.A. 33111', 10.5, '?', 'S')
(72, 3, 'CA 2144', 46.9, '?', 'S')
(73, 2, 'S.O.C. 14879', 73.5, '?', 'S')
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(77, 3, '349208', 7.8958, '?', 'S')
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(79, 2, '248738', 29.0, '?', 'S')
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(89, 1, '19950', 263.0, 'C23 C25 C27', 'S')
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(91, 3, '343276', 8.05, '?', 'S')
(92, 3, '347466', 7.8542, '?', 'S')
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(109, 3, '349249', 7.8958, '?', 'S')
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(122, 3, 'A4. 54510', 8.05, '?', 'S')
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(143, 3, 'STON/O2. 3101279', 15.85, '?', 'S')
(144, 3, '365222', 6.75, '?', 'Q')
(145, 2, '231945', 11.5, '?', 'S')
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(150, 2, '244310', 13.0, '?', 'S')
(151, 2, 'S.O.P. 1166', 12.525, '?', 'S')
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(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')
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(173, 3, '347742', 11.1333, '?', 'S')
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(176, 3, '350404', 7.8542, '?', 'S')
(177, 3, '4133', 25.4667, '?', 'S')
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(180, 3, 'LINE', 0.0, '?', 'S')
```

```
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(182, 2, 'SC/PARIS 2131', 15.05, '?', 'C')
(183, 3, '347077', 31.3875, '?', 'S')
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(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')
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(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')
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(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')
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(217, 3, 'STON/O2. 3101283', 7.925, '?', 'S')
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(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')
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(265, 3, '382649', 7.75, '?', 'Q')
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(269, 1, 'PC 17582', 153.4625, 'C125', 'S')
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(271, 1, '113798', 31.0, '?', 'S')
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(274, 1, 'PC 17596', 29.7, 'C118', 'C')
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(279, 3, '382652', 29.125, '?', 'Q')
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(290, 3, '370373', 7.75, '?', 'Q')
(291, 1, '19877', 78.85, '?', 'S')
(292, 1, '11967', 91.0792, 'B49', 'C')
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(294, 3, '349236', 8.85, '?', 'S')
(295, 3, '349233', 7.8958, '?', 'S')
(296, 1, 'PC 17612', 27.7208, '?', 'C')
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(327, 3, '345364', 6.2375, '?', 'S')
(328, 2, '28551', 13.0, 'D', 'S')
(329, 3, '363291', 20.525, '?', 'S')
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(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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(338, 1, '16966', 134.5, 'E40', 'C')
(339, 3, '7598', 8.05, '?', 'S')
(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')
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(348, 3, '386525', 16.1, '?', 'S')
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(353, 3, '2695', 7.2292, '?', 'C')
(354, 3, '349237', 17.8, '?', 'S')
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(356, 3, '345783', 9.5, '?', 'S')
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(358, 2, '237671', 13.0, '?', 'S')
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(360, 3, '330980', 7.8792, '?', 'Q')
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(368, 3, '2626', 7.2292, '?', 'C')
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(377, 3, 'C 7077', 7.25, '?', 'S')
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(379, 3, '2648', 4.0125, '?', 'C')
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(387, 3, 'CA 2144', 46.9, '?', 'S')
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(395, 3, 'PP 9549', 16.7, 'G6', 'S')
(396, 3, '350052', 7.7958, '?', 'S')
(397, 3, '350407', 7.8542, '?', 'S')
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(399, 2, '244278', 10.5, '?', 'S')
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(403, 3, '4137', 9.825, '?', 'S')
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(409, 3, '312992', 7.775, '?', 'S')
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(415, 3, 'STON/O 2. 3101269', 7.925, '?', 'S')
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(426, 3, 'A/4. 34244', 7.25, '?', 'S')
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(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')
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(437, 3, 'W./C. 6608', 34.375, '?', 'S')
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(439, 1, '19950', 263.0, 'C23 C25 C27', 'S')
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(441, 2, 'F.C.C. 13529', 26.25, '?', 'S')
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(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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(450, 1, '113786', 30.5, 'C104', 'S')
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(452, 3, '65303', 19.9667, '?', 'S')
(453, 1, '113051', 27.75, 'C111', 'C')
(454, 1, '17453', 89.1042, 'C92', 'C')
(455, 3, 'A/5 2817', 8.05, '?', 'S')
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(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')
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(462, 3, '364506', 8.05, '?', 'S')
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(466, 3, 'SOTON/O.Q. 3101306', 7.05, '?', 'S')
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(477, 2, '31027', 21.0, '?', 'S')
(478, 3, '3460', 7.0458, '?', 'S')
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(485, 1, '11967', 91.0792, 'B49', 'C')
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(487, 1, '19943', 90.0, 'C93', 'S')
(488, 1, '11771', 29.7, 'B37', 'C')
(489, 3, 'A.5. 18509', 8.05, '?', 'S')
(490, 3, 'C.A. 37671', 15.9, '?', 'S')
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(492, 3, 'SOTON/OQ 3101317', 7.25, '?', 'S')
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(494, 1, 'PC 17609', 49.5042, '?', 'C')
(495, 3, 'A/4 45380', 8.05, '?', 'S')
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(497, 1, '36947', 78.2667, 'D20', 'C')
(498, 3, 'C.A. 6212', 15.1, '?', 'S')
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(503, 3, '330909', 7.6292, '?', 'Q')
(504, 3, '4135', 9.5875, '?', 'S')
(505, 1, '110152', 86.5, 'B79', 'S')
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(507, 2, '26360', 26.0, '?', 'S')
(508, 1, '111427', 26.55, '?', 'S')
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(510, 3, '1601', 56.4958, '?', 'S')
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(514, 1, 'PC 17603', 59.4, '?', 'C')
(515, 3, '349209', 7.4958, '?', 'S')
(516, 1, '36967', 34.0208, 'D46', 'S')
(517, 2, 'C.A. 34260', 10.5, 'F33', 'S')
(518, 3, '371110', 24.15, '?', 'Q')
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(520, 3, '349242', 7.8958, '?', 'S')
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(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')
(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')
(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')
(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 [ ]:

```

```

In [60]:

```
import pandas
import sqlalchemy
```

In [61]:

```
engine = sqlalchemy.create_engine('postgresql://postgsuperuser:password1!
#postgres://postgsuperuser:password1!@ola201-vishtejpostgre01.cluster-cad
```

In [62]:
```
connection = engine.connect()
```

In [64]:
```
metadata = db.MetaData()
tej2tripinfo = db.Table('tej2tripinfo', metadata, autoload=True, autoload
```

In [72]:
```
query = db.select([tej2tripinfo])
```

In [73]:
```
ResultProxy = connection.execute(query)
```

In [68]:
```
ResultSet = ResultProxy.fetchall()
```

In [69]:
```
ResultSet[:3]
```

Out[69]:
```
[(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 [74]:
```
ResultSetlimit = ResultProxy.fetchmany(5)
```

In [75]:
```
ResultSetlimit
```

Out[75]:
```
[(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')]
```

In [76]:
```
df = pd.DataFrame(ResultSetlimit)
df.columns = ResultSet[0].keys()
```

In [77]:
```
df.head()
```

Out[77]:

	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

In [78]:
```
df.columns
```

Out[78]:
```
Index(['id', 'pclass', 'ticket', 'fare', 'cabin', 'embarked'], dtype='obj
ect')
```

In [79]:
```
cursor.close()
connection.close()
```

In [80]:
```
#if we wnat to load the data using sqlaclemay
```

In [81]:
```
import pandas
import sqlalchemy
```

In [82]:
```
engine = sqlalchemy.create_engine('postgresql://postgsuperuser:password1!
#postgres://postgsuperuser:password1!@ola201-vishtejpostgre01.cluster-cad
```

In [83]:
```
data = pandas.read_csv('s3://stratacent-vish-tej-main/datasets/project3/t
```

In [84]:
```
data.to_sql('tej3tripinfo',engine)
```

Out[84]: 891

In [85]:
```
# now to retive the data
```

In [86]:
```
connection = engine.connect()
```

In [87]:
```
metadata = db.MetaData()
tej3tripinfo = db.Table('tej3tripinfo', metadata, autoload=True, autoload
```

In [88]:
```
query = db.select([tej2tripinfo])
```

In [89]:
```
ResultProxy = connection.execute(query)
```

In [90]:
```
ResultSet = ResultProxy.fetchall()
#ResultSetlimit = ResultProxy.fetchmany(5)
```

In [92]:
```
ResultSet
```

```
Out[92]: [(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'),
```

```
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(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'),
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(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'),
(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'),
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 (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 [91]:
```
df2 = pd.DataFrame(ResultSet)
df2.columns = ResultSet[0].keys()
```

In [93]:
```
df2.head(10)
```

Out[93]:

	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

In [ ]: