

SCREENSHOTS OF THE FRONTEND WITH THE OUTPUTS

BUS RESERVATION SYSTEM

Get all the route details from Route table :

Get_Route_Details

- (1, 'Houston', 'San Antonio', 400)
- (2, 'San Antonio', 'Dallas', 521)
- (3, 'Dallas', 'Houston', 401)
- (4, 'Austin', 'San Antonio', 429)
- (5, 'Fort Worth', 'Austin', 402)
- (6, 'El Paso', 'Dallas', 570)
- (7, 'Arlington', 'Dallas', 403)
- (8, 'Corpus Christi', 'Arlington', 397)
- (9, 'Plano', 'Dallas', 404)
- (10, 'Lubbock', 'Arlington', 563)
- (11, 'Laredo', 'Houston', 581)
- (12, 'Irving', 'Plano', 401)
- (13, 'Garland', 'Houston', 337)
- (14, 'Frisco', 'Plano', 402)
- (15, 'Arlington', 'Plano', 477)
- (16, 'Arlington', 'Lubbock', 403)
- (17, 'Arlington', 'Laredo', 474)
- (18, 'Arlington', 'Irving', 404)
- (19, 'Arlington', 'Garland', 535)
- (20, 'Arlington', 'Frisco', 405)
- (21, 'Dallas', 'Plano', 440)
- (22, 'Dallas', 'Lubbock', 554)
- (23, 'Dallas', 'Laredo', 402)
- (24, 'Dallas', 'Irving', 357)
- (25, 'Dallas', 'Garland', 403)
- (26, 'Dallas', 'Frisco', 372)
- (27, 'Irving', 'Houston', 404)
- (28, 'Irving', 'San Antonio', 432)
- (29, 'Irving', 'Dallas', 405)
- (30, 'Irving', 'Austin', 481)
- (31, 'Irving', 'Fort Worth', 406)
- (32, 'Grand Prairie', 'San Antonio', 493)
- (33, 'Grand Prairie', 'Dallas', 563)
- (34, 'Grand Prairie', 'Houston', 403)
- (35, 'Grand Prairie', 'San Antonio', 411)
- (36, 'Grand Prairie', 'Austin', 404)
- (37, 'Grand Prairie', 'Dallas', 521)
- (38, 'Grand Prairie', 'Arlington', 405)
- (39, 'Houston', 'Arlington', 329)
- (40, 'Austin', 'Arlington', 406)

Enter the Passenger ID to view its details:

P_id

Get_Passenger_Details

- (1, 'Alan', 'Castillo', datetime.datetime(1945, 4, 19, 0, 0), 'castillo2871@mailandftp.com', 73301, '797 Silent Common')

Update the route details for the below given route_id :

R_id

distance

update_distance

- Initial
- (5, 'Fort Worth', 'Austin', 402)
- After update
- (5, 'Fort Worth', 'Austin', 1000)

Update the Zipcode in Passenger:

Old_Zipcode	New_Zipcode	UPDATE_zipcode
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-
- Initial
-
- (13, 'Avelina', 'Toorn', datetime.datetime(1974, 4, 12, 0, 0), 'avelina_toorn2890@proinbox.com', 75015, '446 Prairie Isle')
- (14, 'Royce', 'Silva', datetime.datetime(1978, 12, 11, 0, 0), 'royce_silva8754@xsmail.com', 75015, '634 Misty Course')
- (15, 'Hertha', 'David', datetime.datetime(1974, 4, 1, 0, 0), 'david2117@internet-mail.org', 75015, '797 Silent Common')
- (16, 'Norman', 'Bridges', datetime.datetime(1952, 6, 18, 0, 0), 'norman_bridges4155@mailsent.net', 75015, '949 Pleasant Plaza')
- (17, 'Earl', 'Stofberg', datetime.datetime(1968, 12, 2, 0, 0), 'earl_stofberg8381@mailhaven.com', 75015, '797 Silent Common')
- (18, 'Ed', 'Watt', datetime.datetime(1962, 8, 24, 0, 0), 'watt6731@fmguy.com', 75015, '500 Little Willow')
-
- After update
-
- (1, 'Alan', 'Castillo', datetime.datetime(1945, 4, 19, 0, 0), 'castillo2871@mailandftp.com', 73301, '797 Silent Common')
- (2, 'Lorraine', 'de With', datetime.datetime(1988, 4, 17, 0, 0), 'lorrine5533@mailandftp.com', 73301, '797 Silent Common')
- (3, 'Joesph', 'Cooke', datetime.datetime(1965, 12, 30, 0, 0), 'cooke2044@imap-mail.com', 73301, '96 Tawny Beacon Walk')
- (4, 'Felipa', 'Cole', datetime.datetime(1996, 9, 25, 0, 0), 'felipa6184@allmail.net', 73301, 'P.O. Box 44117')
- (5, 'Waldo', 'Strong', datetime.datetime(1987, 5, 1, 0, 0), 'waldo_strong2379@theinternetemail.com', 73301, '137 Rocky Cliff Harbor')
- (6, 'Wilmer', 'Ulrich', datetime.datetime(2003, 10, 25, 0, 0), 'wilmer488@fastemail.us', 73301, '34 Umber Quail Avenue')
- (13, 'Avelina', 'Toorn', datetime.datetime(1974, 4, 12, 0, 0), 'avelina_toorn2890@proinbox.com', 73301, '446 Prairie Isle')
- (14, 'Royce', 'Silva', datetime.datetime(1978, 12, 11, 0, 0), 'royce_silva8754@xsmail.com', 73301, '634 Misty Course')
- (15, 'Hertha', 'David', datetime.datetime(1974, 4, 1, 0, 0), 'david2117@internet-mail.org', 73301, '797 Silent Common')
- (16, 'Norman', 'Bridges', datetime.datetime(1952, 6, 18, 0, 0), 'norman_bridges4155@mailsent.net', 73301, '949 Pleasant Plaza')
- (17, 'Earl', 'Stofberg', datetime.datetime(1968, 12, 2, 0, 0), 'earl_stofberg8381@mailhaven.com', 73301, '797 Silent Common')
- (18, 'Ed', 'Watt', datetime.datetime(1962, 8, 24, 0, 0), 'watt6731@fmguy.com', 73301, '500 Little Willow')

Delete the one particular type(AC or Non AC only) of bus?

B.TYPE

Delete_prefered_bus

```
.
. #####INITIAL#####
.
. (41, 'NON AC', 43)
. (42, 'NON AC', 44)
. (43, 'NON AC', 45)
. (44, 'NON AC', 46)
. (45, 'NON AC', 47)
. (46, 'NON AC', 48)
. (47, 'NON AC', 49)
. (48, 'NON AC', 50)
. (49, 'NON AC', 51)
. (50, 'NON AC', 52)
. (51, 'NON AC', 53)
. (52, 'NON AC', 54)
. (53, 'NON AC', 55)
. (54, 'NON AC', 56)
. (55, 'NON AC', 57)
. (56, 'NON AC', 59)
. (57, 'NON AC', 60)
. (58, 'NON AC', 61)
. (59, 'NON AC', 62)
. (60, 'NON AC', 63)
. (61, 'NON AC', 64)
. (62, 'NON AC', 65)
. (63, 'NON AC', 66)
. (64, 'NON AC', 67)
. (65, 'NON AC', 68)
. (66, 'NON AC', 69)
. (67, 'NON AC', 70)
. (68, 'NON AC', 71)
. (69, 'NON AC', 72)
. (70, 'NON AC', 73)
. (71, 'NON AC', 74)
.
. #####AFTER DELETE#####
.
```

Update the Street Address for the given Passenger Id

P_id

Street Address

Update_Address

```
.
. Initial
.
. (23, 'Emanuel', 'Blevins', datetime.datetime(1980, 11, 18, 0, 0), 'emanuel4134@mailas.com', 75023, '455 Dewy Lake')
.
. After update
.
. (23, 'Emanuel', 'Blevins', datetime.datetime(1980, 11, 18, 0, 0), 'emanuel4134@mailas.com', 75023, '797 Silent Common')
```

Number of passengers booked the ticket on the given type(AC or Non AC only)?

B.TYPE

Count_prefered_bus

- ('AC', 39)

Business owner wants to know the details of all employees working on schedules between given schedule id's schedule_id's between [1,10] only.

Schedule_id1

Schedule_id2

Employee Schedule

- (36, Raphael, 'Spiker', '645-5107-43')
- (37, Nichol, 'Dixon', '970-6668-95')
- (38, Ken, 'Batenburg', '336-2137-91')
- (39, Eliza, 'Whitney', '495-7519-88')
- (40, Francis, 'Moraes', '283-1656-85')

What is the first X preferred payment modes Where (X=[1,4] only)?

X

Top X Most prefered payment method

- ('ZELLE', 45)
- ('APPLEPE', 13)
- ('CASHAPP', 10)

What was the most preferred time and day in a week where bookings were made

Most prefered date and time

- ('12:12:56', 5)
- ('11:40:52', 5)
- ('14:43:37', 5)
- ('13:23:09', 4)
- ('12:07:17', 2)

What was the aggregate results based on passenger zipcode and mode of booking

Aggregate Results

- (None, None, 74)
- (GPAY, None, 6)
- (ZELLE, None, 45)
- (APPLEPE, None, 13)
- (CASHAPP, None, 10)
- (None, 73301, 11)
- (ZELLE, 73301, 8)
- (APPLEPE, 73301, 2)
- (CASHAPP, 73301, 1)
- (None, 75007, 1)
- (ZELLE, 75007, 1)
- (None, 75009, 1)
- (ZELLE, 75009, 1)
- (None, 75010, 1)
- (ZELLE, 75010, 1)
- (None, 75011, 1)
- (CASHAPP, 75011, 1)
- (None, 75013, 4)
- (ZELLE, 75013, 1)
- (CASHAPP, 75013, 3)
- (None, 75014, 3)
- (ZELLE, 75014, 2)
- (APPLEPE, 75014, 1)
- (None, 75022, 6)
- (ZELLE, 75022, 5)
- (CASHAPP, 75022, 1)
- (None, 75023, 2)
- (ZELLE, 75023, 1)
- (APPLEPE, 75023, 1)
- (None, 75027, 3)
- (ZELLE, 75027, 2)
- (APPLEPE, 75027, 1)
- (None, 75028, 2)
- (ZELLE, 75028, 2)
- (None, 75030, 1)
- (ZELLE, 75030, 1)
- (None, 75032, 3)
- (GPAY, 75032, 1)
- (APPLEPE, 75032, 1)
- (CASHAPP, 75032, 1)
- (None, 75033, 1)
- (GPAY, 75033, 1)
- (None, 75034, 1)
- (ZELLE, 75034, 1)
- (None, 75035, 2)
- (ZELLE, 75035, 1)
- (APPLEPE, 75035, 1)
- (None, 75038, 1)

- ('ZELLE', 75038, 1)
- (None, 75044, 2)
- ('ZELLE', 75044, 1)
- ('APPLEPE', 75044, 1)
- (None, 75048, 1)
- ('GPAY', 75048, 1)
- (None, 75051, 1)
- ('APPLEPE', 75051, 1)
- (None, 75052, 3)
- ('ZELLE', 75052, 2)
- ('CASHAPP', 75052, 1)
- (None, 75053, 2)
- ('APPLEPE', 75053, 1)
- ('CASHAPP', 75053, 1)
- (None, 75056, 1)
- ('GPAY', 75056, 1)
- (None, 75057, 1)
- ('ZELLE', 75057, 1)
- (None, 75058, 1)
- ('ZELLE', 75058, 1)
- (None, 75061, 2)
- ('ZELLE', 75061, 1)
- ('APPLEPE', 75061, 1)
- (None, 75062, 2)
- ('ZELLE', 75062, 2)
- (None, 75063, 1)
- ('ZELLE', 75063, 1)
- (None, 75065, 1)
- ('ZELLE', 75065, 1)
- (None, 75067, 2)
- ('ZELLE', 75067, 1)
- ('APPLEPE', 75067, 1)
- (None, 75069, 1)
- ('ZELLE', 75069, 1)
- (None, 75070, 1)
- ('ZELLE', 75070, 1)
- (None, 75071, 2)
- ('GPAY', 75071, 1)
- ('ZELLE', 75071, 1)
- (None, 75075, 1)
- ('ZELLE', 75075, 1)
- (None, 75076, 1)
- ('APPLEPE', 75076, 1)
- (None, 75077, 2)
- ('GPAY', 75077, 1)
- ('ZELLE', 75077, 1)
- (None, 75078, 1)
- ('CASHAPP', 75078, 1)
- (None, 75082, 1)
- ('ZELLE', 75082, 1)

What was the total seats left in all routes available

Total seats left

- (1, 5)
- (3, 26)
- (4, 21)
- (5, 53)
- (6, 22)
- (7, 2)
- (8, 40)
- (9, 45)
- (10, 15)
- (11, 42)
- (12, 28)
- (13, 37)
- (14, 26)
- (15, 50)
- (16, 44)
- (17, 22)
- (18, 32)
- (19, 36)
- (20, 13)
- (21, 26)
- (22, 26)
- (23, 24)
- (24, 23)
- (25, 21)
- (26, 7)
- (27, 31)
- (28, 4)
- (29, 25)
- (30, 26)
- (31, 1)
- (32, 23)
- (33, 30)
- (34, 10)
- (35, 25)
- (36, 63)
- (40, 20)
- (None, 944)

List down the routes based on the distances between them (highest to lowest range) (rank them)

Routes distance

- (5, 'Fort Worth', 'Austin', 1000, 1)
- (11, 'Laredo', 'Houston', 581, 2)
- (33, 'Grand Prairie', 'Dallas', 563, 3)
- (10, 'Lubbock', 'Arlington', 563, 4)
- (22, 'Dallas', 'Lubbock', 554, 5)
- (19, 'Arlington', 'Garland', 535, 6)
- (2, 'San Antonio', 'Dallas', 521, 7)
- (32, 'Grand Prairie', 'San Antonio', 493, 8)
- (30, 'Irving', 'Austin', 481, 9)
- (15, 'Arlington', 'Plano', 477, 10)
- (17, 'Arlington', 'Laredo', 474, 11)
- (21, 'Dallas', 'Plano', 440, 12)
- (28, 'Irving', 'San Antonio', 432, 13)
- (4, 'Austin', 'San Antonio', 429, 14)
- (35, 'Grand Prairie', 'San Antonio', 411, 15)
- (31, 'Irving', 'Fort Worth', 406, 16)
- (40, 'Austin', 'Arlington', 406, 17)
- (20, 'Arlington', 'Frisco', 405, 18)
- (38, 'Grand Prairie', 'Arlington', 405, 19)
- (29, 'Irving', 'Dallas', 405, 20)
- (36, 'Grand Prairie', 'Austin', 404, 21)
- (18, 'Arlington', 'Irving', 404, 22)
- (9, 'Plano', 'Dallas', 404, 23)
- (27, 'Irving', 'Houston', 404, 24)
- (7, 'Arlington', 'Dallas', 403, 25)
- (16, 'Arlington', 'Lubbock', 403, 26)
- (25, 'Dallas', 'Garland', 403, 27)
- (34, 'Grand Prairie', 'Houston', 403, 28)
- (23, 'Dallas', 'Laredo', 402, 29)
- (14, 'Frisco', 'Plano', 402, 30)
- (12, 'Irving', 'Plano', 401, 31)
- (3, 'Dallas', 'Houston', 401, 32)
- (1, 'Houston', 'San Antonio', 400, 33)
- (8, 'Corpus Christi', 'Arlington', 397, 34)
- (26, 'Dallas', 'Frisco', 372, 35)
- (6, 'El Paso', 'Dallas', 370, 36)
- (24, 'Dallas', 'Irving', 357, 37)
- (13, 'Garland', 'Houston', 337, 38)
- (39, 'Houston', 'Arlington', 329, 39)
- (37, 'Grand Prairie', 'Dallas', 321, 40)

Click the button to get the top three most travelled routes:

Get top three travelled routes

- (15, 'Arlington', 'Plano', 477)
- (30, 'Irving', 'Austin', 481)
- (13, 'Garland', 'Houston', 337)

List the Street Address and the count of street addresses that have given parameter in the street address

Street Address

Get count_Street_address

- ('797 Silent Common', 5)

Click the button to get the least three most travelled routes:

Get least three travelled routes

- (23, 'Dallas', 'Laredo', 402)
- (33, 'Grand Prairie', 'Dallas', 563)
- (19, 'Arlington', 'Garland', 535)

Click the button to get the Zipcodes with the most bookings.

Get most_bookings_zipcode

- (73301, 8)