In [14]:
```
# The CSV module's DictReader can provide each row as a dict with the headers
 as keys:
# • More readable code, automatically skips the header row when accessing dat
a,
# and can provide a list of all headers with one function!
import csv
with open('Wk4-foodhygienedata.csv', 'r') as file:
    reader = csv.DictReader(file, delimiter = ',')
    #for row in reader:  # would print all rows
    for row_num, row in enumerate(reader): # but we will print only first 10
        if row_num <= 10:
            name = row["establishmentname"]
            post = row["postcode"]
            rated = row["rating"]
            print("'" + name + "'"+ ",", post + ",", "rated:", rated)
```

```
'Heyn Group', BT3 9AH, rated: 5
'Rosemary Lunch Club', BT15 5HD, rated: 5
'John Ross & Co Auctioneers', BT1 4NX, rated: 4
'The Maverick/Boom Box', BT1 2GX, rated: 5
'Maverick', BT1 2JF, rated: 4
'Windsor Recreation & Social Cl', BT9 7DS, rated: 4
'The Chester Inn', BT15 5GE, rated: 4
'The Sportsman', BT14 7GA, rated: 5
'City Hibernians Club', BT1 2JD, rated: 4
'Forthriver Bowling & Tennis Club', BT13 3BU, rated: 5
'Shawsbridge Sports Association', BT8 7XP, rated:
```

In [24]:
```
# 3.3. Print a list of all establishment names that do not have a recorded pos
tcode.
import csv
with open('Wk4-foodhygienedata.csv', 'r') as file:
    reader = csv.DictReader(file, delimiter = ',')
    for row in reader:  # will go through all rows
        name = row["establishmentname"]
        post = row["postcode"]
        if not post: # **********************Note: “not” returns True for 0,
 “”, None, and False.
            print("'" + name, "has no postcode in database.")
```

```
'El Divino has no postcode in database.
'Gibsons Butchers has no postcode in database.
'Van Shop has no postcode in database.
'Costa Coffee has no postcode in database.
'Holohans has no postcode in database.
'Cafe Krem Students Union has no postcode in database.
'St Galls Coffee Shop has no postcode in database.
'Royal Day Care has no postcode in database.
'Glenbrook Surestart has no postcode in database.
'Malone Kindergarden - Simply Me has no postcode in database.
'Glenbrook Surestart has no postcode in database.
'Glenbrook Surestart has no postcode in database.
'Top Centra has no postcode in database.
'Russell's has no postcode in database.
'Select Catering has no postcode in database.
'The Bus Stop Cafe has no postcode in database.
'Firths Traditional Fish & Chips has no postcode in database.
'Attridge & Cole has no postcode in database.
'Bernies Burgers has no postcode in database.
'Top Scoff has no postcode in database.
'Campbell McCleave Ltd has no postcode in database.
'The Dock Cafe has no postcode in database.
'Pizza Hut (Victoria Square) has no postcode in database.
'TGI Fridays  (Victoria Square) has no postcode in database.
'Pizza Express has no postcode in database.
'GIBONEY HOUSE (CLANMIL HOUSING) has no postcode in database.
'Select Sandwiches has no postcode in database.
'Grosvenor Grammar School has no postcode in database.
'St John Paul II has no postcode in database.
'Taughmonagh Nursery School has no postcode in database.
'First Presbyterian Church has no postcode in database.
'Malton Fold has no postcode in database.
'The Candy Man UK has no postcode in database.
```

In [23]:
```
# 3.4. Print a list of all establishment names that are missing any item of in
formation
# ********** The “any” function: • Returns True on the first encounter of a co
ndition
# ********** evaluating to True, else returns False.
import csv
with open('Wk4-foodhygienedata.csv', 'r') as file:
    reader = csv.DictReader(file, delimiter = ',')
    #for row in reader:  # will go through all rows
    for row_num, row in enumerate(reader): # but we will print only first 10
        if row_num <= 10:
            if any(row[key] in (None, "") for key in row):
                print(row["establishmentname"], "has missing at least some val
ue in database")
```

```
Rosemary Lunch Club has missing at least some value in database
John Ross & Co Auctioneers has missing at least some value in database
The Maverick/Boom Box has missing at least some value in database
Maverick has missing at least some value in database
Windsor Recreation & Social Cl has missing at least some value in database
The Chester Inn has missing at least some value in database
The Sportsman has missing at least some value in database
City Hibernians Club has missing at least some value in database
Forthriver Bowling & Tennis Club has missing at least some value in database
Shawsbridge Sports Association has missing at least some value in database
```

In [25]:
```
# 4. ******* Similarly, the “all” function: • Returns False on the first encou
nter of a condition
# ********** evaluating to False, else returns True.
import csv
with open('Wk4-foodhygienedata.csv', 'r') as file:
    reader = csv.DictReader(file, delimiter = ',')
    for row in reader: # will go through all rows
        if all(row[key] for key in row):    # row[key] will evaluate to True i
f a value is present,
                                            # which is not False, None, 0, “”
 or an empty container.
            print(row["establishmentname"], "has all the data!")
```

```
Heyn Group has all the data!
```