## DATA TAMING ASSIGNMENT 1

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## 24/03/2024

## R. Markdown

## 1 Fairhampton

```
library(tidyverse)
library(dplyr)
library(inspectdf)
library(ggplot2)
library(lubridate)
library(caret)
library(moments)
# Defining my student number
student_number <- 1896845  # Replace this with your actual student number
# Calculating the my dataset number with my student number
index <- (student_number + 1) %% 3</pre>
index
## [1] 0
# Calculating the my dataset number with my student number
filename <- paste0("C:/Users/Vineeth M R/Desktop/fina/gadget_0.csv")
filename
## [1] "C:/Users/Vineeth M R/Desktop/fina/gadget_0.csv"
#Q1. Load the correct dataset and save it as a tibble. Output the first 10 lines of the dataset.
# Load the dataset
data <- read.csv(filename)</pre>
# Output the first 10 lines of the dataset
head(data, 10)
             name population
                                advertising sales
```

415149 \$1,467,743.39 141335

```
## 2
          Ashwich
                       505932 $1,426,770.06
                                              96672
## 3
       Rockcaster
                       406564 $1,147,775.28
                                              56084
         Hogstead
## 4
                       494200 $1,114,590.85
                                              43865
## 5
         Snowgrad
                       323581
                                $888,153.32
                                              66033
##
  6
        Sweetport
                       309610
                                $400,624.41
                                              16066
## 7
       Passcaster
                       780917 $3,209,478.58 327318
## 8
         Parkdale
                       404280 $1,632,156.47 174979
## 9
                       499986 $1,445,273.80 105101
          Hogbury
## 10 Readingford
                       242013
                                $615,491.11
```

##Q2. Add a new column of row numbers to the far left of your tibble, to make it easy to refer to the cities. Output the first 10 rows of your data.

```
data = mutate(data, row_num=c(1:1001))
data
```

```
##
                   name
## 1
           Fairhampton
## 2
                Ashwich
## 3
            Rockcaster
## 4
               Hogstead
## 5
               Snowgrad
## 6
              Sweetport
## 7
            Passcaster
## 8
               Parkdale
## 9
                Hogbury
## 10
           Readingford
## 11
            Hallcester
## 12
           Farmhampton
## 13
                Norness
## 14
                 Redton
## 15
           Princemouth
## 16
             Wheelfield
## 17
                Millton
## 18
            Rivermouth
## 19
               Bannview
## 20
                Hapness
## 21
              Princeham
## 22
             Summerwich
## 23
                Manport
## 24
               Bellbury
## 25
               Dodgedol
## 26
             Middleport
## 27
              Northness
## 28
               Fairwich
## 29
                  Auley
## 30
          Southhampton
## 31
             Frostburgh
## 32
                Winport
## 33
               Sayworth
## 34
              Sageworth
## 35
                 Duckby
## 36
               Farmgrad
## 37
              Saltburgh
```

##	38	Fishham
##	39	Postport
##	40	Hallhampton
##	41	Southingcaster
##	42	Emermouth
##	43	Hollowham
##	44	Chatpool
##	45	Starwich
##	46	Medbrough
##	47	Kingfield
##	48	Waterham
##	49	Auland
##	50	Capcester
##	51	Winburg
##	52	Hardgrad
##	53	Dodgeburg
##	54	Stoneborough
##	55	Gilview
##	56	Cruxstead
##	57	Mannorworth
##	58	Bayport
##	59	Wheelton
##	60	Angerhampton
##	61	Hardby
##	62	Seastead
##	63	Beachton
##	64	Bridgedol
##	65	Ashham
##	66	Foxgrad
##	67	Stonebrough
##	68	Probrough
##	69	Princeland
##	70	Auhampton
##	71	Appletown
##	72	Hogtown
##	73	Julley
##	74	Duckworth
##	75	Kettletown
##	76	Julbury
##	77	Kingdol
##	78	Castercester
##	79	Sweetness
##	80	Valenside
##	81	Massbury
##	82	Roseland
##	83	Weirport
##	84	Sandville
##	85	Fauxness
##	86	Beachburg
##	87	Costsgrad
##	88	Faygrad
##	89	Aelhampton
##	90	Sandburg
##	91	Lunburg
••		

##	92	Norbrough
##	93	Sugarbrough
##	94	Norburg
##	95	Postfield
##	96	Mannorley
##	97	Hamley
##	98	Southingburg
##	99	Gilside
##	100	Strongness
##	101	Skillley
##	102	Melham
##	103	Passview
##	104	Southingtown
##	105	Eastwich
##	106	Greendol
##	107	Chathampton
##	108	Greenstead
##	109	Massport
##	110	Haptown
##	111	Farmmouth
##	112	Dayside
##	113	Medborough
##	114	Lunaland
##	115	Parkness
##	116	Farmland
##	117	Kingview
##	118	Angerford
##	119	Sagebury
##	120	Costspool
##	121	Pineville
##	122	Valenbury
##	123	Riverdale
##	124	Greenborough
##	125	Auness
##	126	Princeport
##	127	Baydol
##	128	Princeview
##	129	Applepool
##	130	Parkwich
##	131	Griffindol
##	132	Lexingfield
##	133	Mansley
##	134	Kingburg
##	135	Lunpool
##	136	Southfield
##	137	Tallton
##	138	Watercester
##	139	Norbury
##	140	Saltside
##	141	Cloudside
##	141	Manborough
##	142	Valenstead
##	143	Southby
	144	•
##	145	Richtown

##	146	Fauxby
##	147	Factdale
##	148	Gilbury
##	149	Pinemouth
##	150	Cloudton
##	151	Waltburgh
##	152	Skilltown
##	153	Jameshampton
##	154	Waterham
##	155	Frostview
##	156	Wheelcaster
##	157	Southingpool
##	158	Postborough
##	159	Lexinggrad
##	160	Freefield
##	161	Strongland
##	162	Beachpool
##	163	Fishdol
##	164	Fayworth
##	165	Southingdale
##	166	Millburgh
##	167	Mannorfield
##	168	Aelcester
##	169	Saygrad
##	170	Princedol
##	171	Saycester
##	172	Wingland
##	173	Sandby
##	174	Postmouth
##	175	Manstead
##	176	Fishpool
##	177	Oakbrough
##	178	Saltborough
##	179	Sealey
##	180	Duckcaster
##	181	Hosham
##	182	Baydale
##	183	Northley
##	184	Fishdale
##	185	Elmouth
##	186	Parkford
##	187	Hollowness
##	188	Eaststead
##	189	Springmouth
##	190	Bridgeland
##	191	Sageside
##	192	Gilwich
##	193	Sweetdol
##	194	Highville
##	195	Cloudmouth
##	196	Beachworth
##	197	Westley
##	198	Fairville
##	199	Augrad
пπ	100	Auglac

##	200	Hallbrough
##	201	Backland
##	202	Stonecaster
##	203	Lunness
##	204	Waterbury
##	205	Daytown
##	206	Rosehampton
##	207	Foxville
##	208	Fishland
##	209	Fayview
##	210	Pailville
##	211	Duckbrough
##	212	Redbrough
##	213	Greenview
##	214	Farmborough
##	215	Princebrough
##	216	Queensburgh
##	217	Mansworth
##	218	Lunview
##	219	Saypool
##	220	Appleview
##	221	Readingfield
##	222	Starcester
##	223	Luncester
##	224	Fishby
##	225	Duckgrad
##	226	Waltfield
##	227	Saybury
##	228	Proville
##	229	Tallpool
##	230	Ashland
##	231	Ashworth
##	232	Prostead
##	233	Pineham
##	234	Sandside
##	235	Elness
##	236	Seafield
##	237	
	238	Highside Bridgeton
##	239	Factland
##		
##	240	Jamesburgh
##	241	Kettleworth
##	242	Parkcester
##	243	Hamhampton
##	244	Applestead
##	245	Fairworth
##	246	Queensgrad
##	247	Caphampton
##	248	Southdale
##	249	Southingford
##	250	Sugarstead
##	251	Parkcaster
##	252	Sugarcaster
##	253	Strongmouth

##	254	Foatcoator
##	255	Eastcester Mannorbrough
##	256	Sagecaster
##	257	Hamcester
##	258	Hardham
##	259	Chattown
##	260	Lexingville
##	261	Duckham
##	262	Mannormouth
##	263	Richmouth
##	264	Massburgh
##	265	Haphampton
##	266	Passdale
##	267	Weirstead
##	268	Snowwich
##	269	Prodale
##	270	Highworth
##	271	Wheelborough
##	272	Foxton
##	273	Medgrad
##	274	Starford
##	275	Southingfield
##	276	Seaside
##	277	Postcaster
##	278	Postley
##	279	Dayland
##	280	Winburgh
##	281	Norport
##	282	Farmingpool
##	283	Medside
##	284	Hapford
##	285	Angergrad
##	286	Southingmouth
##	287	Winterport
##	288	Farmingmouth
##	289	Faycaster
##	290	Highburg
##	291	Greengrad
##	292	Fishford
##	293	Hoscester
##	294	Richwich
##	295	Strongburgh
##	296	Hapton
##	297	${\tt Bridgehampton}$
##	298	Holtsview
##	299	Princewich
##	300	Summerborough
##	301	Massstead
##	302	Northpool
##	303	Casterland
##	304	Passburg
##	305	Princecaster
##	306	Hosworth
##	307	Redside

##	308	Greenpool
##	309	Fortpool
##	310	Postbury
##	311	Hapfield
##	312	Ashview
##	313	Starcaster
##	314	Snowstead
##	315	Frosttown
##	316	Aeldol
##	317	Farmingtown
##	318	Stonepool
##	319	Waltgrad
##	320	Norborough
##	321	Capland
##	322	Capside
##	323	Rockgrad
##	324	Queenshampton
##	325	Northview
##	326	Bellcaster
##	327	Waterness
##	328	Northwich
##	329	Angerbrough
##	330	Springbrough
##	331	Jamescaster
##	332	Sugarmouth
##	333	Rosecester
##	334	Cruxside
##	335	Rockwich
##	336	Mayville
##	337	Massborough
##	338	Holtsham
##	339	Wheelford
##	340	Jameston
##	341	Queensford
##	342	Fauxfield
##	343	Winville
##	344	Westhampton
##	345	Riverville
##	346	Cloudcaster
##	347	Melbury
##	348	Rockville
##	349	Hollowfield
##	350	Proton
##	351	Manville
##	352	Elcester
##	353	Eltown
##	354	Pinestead
##	355	Faircaster
##	356	Hallford
##	357	Valenford
##	358	Westview
##	359	Chatport
##	360	Chatmouth
	361	Auville
##	201	AUVILLE

##	362	Casterwich
##	363	Roseville
##	364	Sweetwich
##	365	Walttown
##	366	Roseview
##	367	Bannness
##	368	Waltwich
##	369	Waltby
##	370	Backdol
##	371	Cruxton
##	372	Rockhampton
##	373	Hostown
##	374	Westdale
##	375	Stardale
##	376	Fortness
##	377	Chatton
##	378	Kettleville
##	379	Rosecaster
##	380	Factburgh
##	381	Richgrad
##	382	Lunhampton
##	383	Saytown
##	384	Cloudborough
##	385	Reddale
##	386	Sugarworth
##	387	Holtsgrad
##	388	Emerpool
##	389	Kingside
##	390	Cruxfield
##	391	Tallcaster
##	392	Kettleland
##	393	Sageley
##	394	${\tt Griffinhampton}$
##	395	Weirpool
##	396	Ashport
##	397	Gilness
##	398	Hapdol
##	399	Princeside
##	400	Snowview
##	401	Gilworth
##	402	Northmouth
##	403	Proness
##	404	Appleburgh
##	405	${\tt Griffinmouth}$
##	406	Fortgrad
##	407	Pineford
##	408	Factley
##	409	Westham
##	410	Medburg
##	411	Kettledale
##	412	Maybrough
##	413	Jamesgrad
##	414	Postside
##	415	Skillgrad

##	416	Lexingburg
##	417	Readingdale
##	418	Queensworth
##	419	Backborough
##	420	Jamestown
##	421	Valenfield
##	422	Tallland
##	423	Saltstead
##	424	Hollowtown
##	425	Lexingbrough
##	426	Belldol
##	427	Weirland
##	428	Lawstead
##	429	Summerton
##	430	Lungrad
##	431	Freeworth
##	432	Parkburg
##	433	Costsville
##	434	Melby
##	435	Millville
##	436	Mannorburgh
##	437	Middleland
##	438	Middlewich
##	439	Auby
##	440	Fairport
##	441	Angerpool
##	442	Farmingley
##	443	Factness
##	444	Skillton
##	445	Oakport
##	446	Redford
##	447	Starness
##	448	Skillcaster
##	449	Medhampton
##	450	Queenswich
##	451	Sweetton
##	452	Redfield
##	453	Fairside
##	454	Luntown
##	455	Bellgrad
##	456	Rosedale
##	457	Valenham
##	458	Bridgedale
##	459	Holtshampton
##	460	Kingham
##	461	Clouddale
##	462	Kingmouth
##	463	Sugarborough
##	464	Saltmouth
##	465	Masswich
##	466	Summerbury
##	467	Weirborough
##	468	Masston
##	469	Farmcaster

##	470	Jamesley
##	471	Weirhampton
##	472	Valentown
##	473	Stardol
##	474	Sagefield
##	475	Northside
##	476	Factgrad
##	477	Eastworth
##	478	Capport
##	479	Beachborough
##	480	Southgrad
##	481	Hoswich
##	482	Northdale
##	483	Holtsstead
##	484	Hollowstead
##	485	Starby
##	486	Snowport
##	487	Wingbrough
##	488	Skillpool
##	489	Hogburg
##	490	Factbrough
##	491	Hardcester
##	492	Sandmouth
##	493	Mansdale
##	494	Roseness
##	495	Northton
##	496	Valenton
##	497	Middleness
##	498	Waterville
##	499	Winterley
##	500	Hallgrad
##	501	Lunadol
##	502	Sweetby
##	503	Duckview
##	504	Tallburg
##	505	Cruxgrad
##	506	Sweetside
##	507	Fortburg
##	508	Duckfield
##	509	Sayford
##	510	Melness
##	511	Winterburgh
##	512	Millcaster
##	513	Melview
##	514	Sugarfield
##	515	Springdale
##	516	Fauxside
##	517	Auford
##	518	Fairstead
##	519	Springford
##	520	Beachness
##	521	Skillport
##	522	Capville
##	523	Wingdol
		-

##	524	Frostgrad
##	525	Manley
##	526	Lexingworth
##	527	Greenford
##	528	Dodgeley
##	529	Daydale
##	530	Sandborough
##	531	Skillham
##	532	Prowich
##	533	Pinehampton
##	534	Casterview
##	535	Hollowley
##	536	Hardland
##	537	Duckland
##	538	Masshampton
##	539	Hogton
##	540	Middlecester
##	541	Strongtown
##	542	Millwich
##	543	Griffinworth
##	544	Highdol
##	545	Elborough
##	546	Snowcester
##	547	Parkbury
##	548	Princefield
##	549	Rockpool
##	550	Southingbrough
##	551	Meldol
##	552	Middlebrough
##	553	Masspool
##	554	Riverburgh
##	555	Costsborough
##	556	Passstead
##	557	Lunworth
##	558	Freepool
##	559	Ashdale
##	560	Parkside
##	561	Valenwich
##	562	Passcester
##	563	Costsland
##	564	Costsburg
##	565	Kettlemouth
##	566	Kingborough
##	567	Millcester
##	568	Bannbury
##	569	Factville
##	570	Parkview
##	571	Ashborough
##	572	Gildale
##	573	Frostdale
##	574	Fairburg
##	575	Lawtown
##	576	Fortdol
	577	
##	5//	Lexingdale

##	578	Hoggrad
##	579	Julworth
##	580	Cloudford
##	581	Fayside
##	582	Beachcaster
##	583	Strongborough
##	584	Lunmouth
##	585	Stoneview
##	586	Weirham
##	587	Castergrad
##	588	Banncester
##	589	Costsview
##	590	Mayborough
##	591	Lexingby
##	592	Appleham
##	593	Castermouth
##	594	Lawborough
##	595	Mayham
##	596	Southingwich
##	597	Baypool
##	598	Stonecester
##	599	Backfield
##	600	Lexingcaster
##	601	Middleview
##	602	Backpool
##	603	Manbrough
##	604	Queensby
##	605	Hollowview
##	606	Waterport
##	607	Farmingbury
##	608	Costsford
##	609	Fortton
##	610	Melland
##	611	Tallby
##	612	Westbury
##	613	Millhampton
##	614	Massworth
##	615	Fishfield
##	616	Dayburgh
##	617	Wheelburgh
##	618	Middleburg
##	619	Applefield
##	620	Southham
##	621	Mansbury
##	622	Costsstead
##	623	Pailford
##	624	Northfield
##	625	Westport
##	626	Lunaburg
##	627	Stoneness
##	628	Richworth
##	629	Westworth
##	630	Aelby
	631	Proford
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##	632	Bellhampton
##	633	Kettleness
##	634	Greenport
##	635	Casterhampton
##	636	Queensburg
##	637	Factcaster
##	638	Skillburgh
##	639	Lunaford
##	640	Manhampton
##	641	Riverford
##	642	Lundol
##	643	Waltville
##	644	Highbrough
##	645	Norfield
##	646	Casterdale
##	647	Lawdol
##	648	Lunaborough
##	649	Julmouth
##	650	Winside
##	651	Appleley
##	652	Julcaster
##	653	Julstead
##	654	Hosborough
##	655	Wincaster
##	656	Bridgeport
##	657	Oakdale
##	658	Waltland
##	659	Holtsborough
##	660	Sweetland
##	661	Factton
##	662	Highley
##	663	Southburg
##	664	Costsburgh
##	665	Julford
##	666	Postwich
##	667	Hapstead
##	668	Starbrough
##	669	Pineton
##	670	Seaworth
##	671	Bellwich
##	672	Eastside
##	673	Kingwich
##	674	Gilmouth
##	675	Seaness
##	676	Massford
##	677	Wheelbury
##	678	Freeland
##	679	Cruxby
##	680	Sageburgh
##	681	Holtscester
##	682	Princeburgh
##	683	Hogbrough
##	684	Milldale
##	685	Dodgeborough

##	686	Fairley
##	687	Hogcaster
##	688	Skillcester
##	689	Cruxport
##	690	Sandstead
##	691	Passland
##	692	Fortcaster
##	693	Redland
##	694	Bayville
##	695	Auton
##	696	Princedale
##	697	Sandpool
##	698	Valenport
##	699	Mannorville
##	700	Medpool
##	701	Hollowmouth
##	702	Hollowdale
##	703	Starborough
##	704	Julville
##	705	Mancaster
##	706	Northgrad
##	707	Lunport
##	708	Massfield
##	709	Frostworth
##	710	Fauxdol
##	711	Passton
##	712	Ashtown
##	713	Elby
##	714	Lawville
##	715	Waterview
##	716	Southingley
##	717	Fauxmouth
##	718	Holtspool
##	719	Melton
##	720	Redcaster
##	721	Elcaster
##	722	Wingstead
##	723	Middledale
##	724	Sandton
##	725	Queenscester
##	726	Banncaster
	727	Jameswich
##	728	Ashside
##	729	Griffinwich
##	730	
##		Hogley
##	731	Valenville
##	732	Fauxburg
##	733	Sayburg
##	734	Fauxport
##	735	Bellbrough
##	736	Medby
##	737	Bridgepool
##	738	Pinepool
##	739	Princeville

##	740	Hapburgh
##	741	Sugarburg
##	742	Richham
##	743	Casterport
##	744	Goldton
##	745	Winworth
##	746	Norcaster
##	747	Lexington
##	748	Winggrad
##	749	Audol
##	750	Kington
##	751	Wheelgrad
##	752	Holtsbury
##	753	Millgrad
##	754	Hallborough
##	755	Stonedol
##	756	Hardley
##	757	Massdale
##	758	Richcaster
##	759	Richness
##	760	Mannorness
##	761	Chatcester
##	762	Fortby
##	763	Hollowburgh
##	764	Dayley
##	765	Fayford
##	766	Winness
##	767	Oakmouth
##	768	Westbrough
##	769	Snowmouth
##	770	Tallgrad
##	771	Backley
##	772	Redport
##	773	Ashford
##	774	Bellburg
##	775	Wingpool
##	776	Lawness
##	777	Stoneby
##	778	Fairfield
##	779	Backness
##	780	Costsmouth
##	781	Mannordol
##	782	Lunaham
##	783	Dodgeland
##	784	Appleworth
##	785	Westgrad
##	786	Rockbury
##	787	Farminggrad
##	788	Freeley
##	789	Valenpool
##	790	Audale
##	790	
##	791	Hapcester Stonewich
		Hardtown
##	793	Hardtown

```
## 794
         Southingstead
## 795
               Bellley
## 796
           Fishhampton
## 797
            Bannbrough
  798
               Winterby
##
## 799
           Southbrough
## 800
             Freeville
## 801
            Costsworth
## 802
                 Foxham
## 803
               Lunford
##
  804
           Goldhampton
## 805
           Middlemouth
##
   806
               Fortley
## 807
                 Reddol
## 808
               Bannport
## 809
             Angerworth
## 810
             Bannville
## 811
              Lunaport
## 812
               Meltown
## 813
            Fayhampton
## 814
             Millworth
## 815
                 Auwich
## 816
            Sugarburgh
## 817
               Rockdale
## 818
               Richford
## 819
               Ashpool
## 820
               Hallley
  821
## 822
             Cloudstead
## 823
               Saltwich
## 824
         Lexinghampton
##
   825
        Griffinborough
## 826
           Summerville
## 827
               Proview
## 828
           Costsbrough
## 829
               Windale
## 830
               Rockside
## 831
           Facthampton
## 832
               Weirview
## 833
               Melfield
## 834
             Hallmouth
## 835
           Pailhampton
##
   836
               Sandtown
## 837
               Frostby
## 838
                 Sayton
## 839
               Maywich
## 840
               Winpool
## 841
           Cruxhampton
## 842
               Snowbury
## 843
             Angerburg
##
  844
             Dodgeness
## 845
               Hamstead
               Bayside
## 846
## 847
             Greenland
```

##	848	Lunham
##	849	Holtsbrough
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##	851	Fairpool
##	852	Bayworth
##	853	Sandbury
##	854	Fishstead
##	855	Hogcester
##	856	Medview
##	857	Springburg
##	858	Factburg
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##	860	Errorfield
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##	863	Kingley
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##	867	Oakcaster
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##	869	Strongworth
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##	873	Banngrad
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##	875	Aubury
##	876	Beachham
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##	878	Sweethampton
##	879	Fairgrad
##	880	Norcester
##	881	Auworth
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##	884	Hosburg
##	885	Wingborough
##	886	Griffingrad
##	887	Sugarland
##	888	Melcaster
##	889	Readingtown
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##	891	Middleworth
##	892	Fayburgh
##	893	Sagedol
##	894	Hardside
##	895	Casterbrough
##	896	Riverton
##	897	Meddol
##	898	Windol
##	899	Wintermouth
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##	901	Griffinness

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##	913	Eastmouth
##	914	Holtsworth
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##	916	Lunapool
##	917	Waterfield
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##	919	Cloudby
##	920	Pineness
##	921	Mannortown
##	922	Bannpool
##	923	Kettlewich
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##	933	Holtsfield
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##	935	Hardcaster
##	936 937	Southcester
		Hogburgh
## ##	938	Southingport
##	939 940	Eastton Winford
##	941	Masstown
##	942	
##	943	Roseport Aumouth
##	944	
##	945	Proport Emerwich
##	946	
##	947	Daycaster Gilfield
##		Summerworth
##	948 949	Middleton
##	950	Tallhampton
##	951	Waterbrough
##	951	Auborough
##	953	Fishcaster
##	954	Rosetown
##	955	Bridgeton
π#	200	priageron

```
## 956
            Lunabrough
## 957
          Mannorcester
## 958
            Winterpool
## 959
                 Manton
## 960
           Farmingview
## 961
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## 962
               Backford
## 963
               Backgrad
## 964
                Halldol
## 965
                Fayland
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                Emerley
## 969
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                Tallham
## 971
           Middlestead
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                 Aupool
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               Lunabury
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## 995
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## 1000
                Faywich
## 1001
               Saltview
##
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                                                                           415149
## 2
                                                                           505932
## 3
                                                                           406564
## 4
                                                                           494200
## 5
                                                                           323581
## 6
                                                                           309610
## 7
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  967
          $1,275,987.70
                          1.20190e+05
                                            967
## 968
          $1,509,833.10
                          1.07892e+05
                                            968
##
  969
            $456,901.10
                          3.85040e+04
                                            969
## 970
         -$1,782,195.35
                          1.57036e+05
                                            970
## 971
          $2,564,026.93
                          2.06330e+05
                                            971
## 972
          $2,479,030.98
                          2.28220e+05
                                            972
## 973
            $622,861.80
                          4.72040e+04
                                            973
## 974
            $186,336.08
                          1.16290e+04
                                            974
## 975
          $1,691,208.84
                          1.73522e+05
                                            975
## 976
            $748,783.78
                          5.38400e+04
                                            976
##
  977
            $982,146.53
                          1.13611e+05
                                            977
## 978
          $1,650,719.90
                          1.44377e+05
                                            978
## 979
          $2,254,142.40
                          2.58688e+05
                                            979
## 980
          $1,705,119.04
                           1.29757e+05
                                            980
##
  981
          $1,255,523.09
                          9.36670e+04
                                            981
##
   982
          $1,230,923.22
                          8.09230e+04
                                            982
          $1,769,120.60
##
  983
                          1.57707e+05
                                            983
##
   984
          $1,401,703.77
                          9.20020e+04
                                            984
  985
          $1,099,614.74
##
                          9.86000e+04
                                            985
## 986
          $2,156,426.27
                           1.93126e+05
                                            986
## 987
          $1,152,289.26
                          8.31230e+04
                                            987
## 988
            $564,010.20
                          4.45500e+04
                                            988
            $226,345.69
## 989
                          7.54600e+03
                                            989
## 990
            $257,058.48
                          2.30570e+04
                                            990
## 991
          $1,888,357.52
                          1.94851e+05
                                            991
          $1,003,702.37
##
  992
                          4.96180e+04
                                            992
## 993
            $204,375.13
                          1.23510e+04
                                            993
## 994
            $380,474.77
                          1.38030e+04
                                            994
## 995
            $869,462.66
                          7.88850e+04
                                            995
## 996
          $1,295,028.41
                          6.90000e+04
                                            996
## 997
            $562,506.22
                          5.43170e+04
                                            997
## 998
            $357,714.91
                          2.05680e+04
                                            998
##
   999
            $778,431.09
                          7.14990e+04
                                            999
            $718,721.38
##
  1000
                          3.21860e+04
                                           1000
## 1001
            $941,807.18
                         8.44570e+04
                                           1001
```

```
n_data = relocate(data, row_num, .before = name)
# Output the first 10 lines of the dataset
head(n_data,10)
```

```
##
     row num
                    name population
                                      advertising sales
## 1
           1 Fairhampton
                             415149 $1,467,743.39 141335
## 2
           2
                 Ashwich
                             505932 $1,426,770.06 96672
## 3
           3 Rockcaster
                             406564 $1,147,775.28
                                                  56084
## 4
           4 Hogstead
                             494200 $1,114,590.85
                                                  43865
                                      $888,153.32 66033
           5
## 5
                Snowgrad
                             323581
             Sweetport
## 6
           6
                             309610
                                      $400,624.41 16066
           7 Passcaster
## 7
                             780917 $3,209,478.58 327318
## 8
                Parkdale
                             404280 $1,632,156.47 174979
## 9
           9
                 Hogbury
                             499986 $1,445,273.80 105101
## 10
          10 Readingford
                             242013
                                      $615,491.11
```

Q3.3. Using dot points, identify what types of variables we now have in our data set, i.e., "Quantitative Discrete", "Quantitative Continuous", "Categorical Nominal", "Categorical Ordinal". (Don't just describe what datatype they are in the tibble — you need to think about the type of variable in the context of the meaning of the data.) Make sure you provide some justification for your choice of variable types.

```
#solution:
```

```
row_num : "Quantitative Discrete" name : "Categorical Nominal" population : "Quantitative Discrete" advertising : "Quantitative Continuous" sales : "Quantitative Discrete"
```

4. Now it's time to clean and tame our data. • Clean the data by fixing any missing or erroneous data. • Make the dataset conform to the Tame Data conventions in Module 2 (page 3).(Note that you will probably have to perform cleaning and taming iteratively, meaning that you will probably want to do some cleaning, then some taming, and then realise that more cleaning is needed, then more taming, etc... Pay attention to the warnings and messages that R gives you!)

```
inspect_na(n_data)
```

```
## # A tibble: 5 x 3
##
   col name cnt
                        pcnt
    <chr>
                <int> <dbl>
##
## 1 sales
                   1 0.0999
## 2 row_num
                    0 0
## 3 name
                    0 0
## 4 population
                    0 0
## 5 advertising
                    0 0
```

```
for (i in 1:nrow(n_data)){
   if (is.na(n_data$name[i])){
        n_data$name[i] <- paste("noname_",x)
        x <- x+1
   }
}</pre>
```

##		row_num	name	
##	1	1	Fairhampton	
##	2	2	Ashwich	
##	3	3	Rockcaster	
##	4	4	Hogstead	
##	5	5	Snowgrad	
##	6	6	Sweetport	
##	7	7	Passcaster	
##	8	8	Parkdale	
##	9	9	Hogbury	
##	10	10	Readingford	
##	11	11	Hallcester	
##	12	12	Farmhampton	
##	13	13	Norness	
##	14	14	Redton	
##	15	15	Princemouth	
##	16	16	Wheelfield	
##	17	17	Millton	
##	18	18	Rivermouth	
##	19	19	Bannview	
##	20	20	Hapness	
##	21	21	Princeham	
##	22	22	Summerwich	
##	23	23	${ t Manport}$	
##	24	24	Bellbury	
##	25	25	Dodgedol	
##	26	26	${ t Middleport}$	
##	27	27	Northness	
##	28	28	Fairwich	
##	29	29	Auley	
##	30	30	${\tt Southhampton}$	
##	31	31	Frostburgh	
##	32	32	Winport	
##	33	33	Sayworth	
##	34	34	Sageworth	
##	35	35	Duckby	
##	36	36	Farmgrad	
##	37	37	Saltburgh	
##	38	38	Fishham	
##	39	39	Postport	
##	40	40	Hallhampton	

##	41	41	Southingcaster
##	42	42	Emermouth
##	43	43	Hollowham
##	44	44	Chatpool
##	45	45	Starwich
##	46	46	Medbrough
##	47	47	Kingfield
##	48	48	Waterham
##	49	49	Auland
##	50	50	Capcester
##	51	51	Winburg
##	52	52	Hardgrad
##	53	53	Dodgeburg
##	54	54	Stoneborough
##	55	55	Gilview
##	56	56	Cruxstead
##	57	57	Mannorworth
##	58	58	Bayport
##	59	59	Wheelton
##	60	60	Angerhampton
##	61	61	Hardby
##	62	62	Seastead
##	63	63	Beachton
##	64	64	Bridgedol
##	65	65	Ashham
##	66	66	Foxgrad
##	67	67	Stonebrough
##	68	68	Probrough
##	69	69	Princeland
##	70	70	Auhampton
##	71	71	Appletown
##	72	72	Hogtown
##	73	73	Julley
##	74	74	Duckworth
##	75	75	Kettletown
##	76	76	Julbury
##	77	77	Kingdol
##	78	78	Castercester
##	79	79	Sweetness
##	80	80	Valenside
##	81	81	Massbury
##	82	82	Roseland
##	83	83	Weirport
##	84	84	Sandville
##	85	85	Fauxness
##	86	86	Beachburg
##	87	87	Costsgrad
##	88	88	Faygrad
##	89	89	Aelhampton
##	90	90	Sandburg
##	91	91	Lunburg
##	92	92	Norbrough
##	93	93	Sugarbrough
##	94	94	Norburg

##	95	95	Postfield
##	96	96	Mannorley
##	97	97	Hamley
##	98	98	Southingburg
##	99	99	Gilside
##	100	100	Strongness
##	101	101	Skillley
##	102	102	Melham
##	103	103	Passview
##	104	104	Southingtown
##	105	105	Eastwich
##	106	106	Greendol
##	107	107	Chathampton
##	108	108	Greenstead
##	109	109	Massport
##	110	110	Haptown
##	111	111	Farmmouth
##	112	112	Dayside
##	113	113	Medborough
##	114	114	Lunaland
##	115	115	Parkness
##	116	116	Farmland
##	117	117	Kingview
##	118	118	Angerford
##	119	119	Sagebury
##	120	120	Costspool
##	121	121	Pineville
##	122	122	Valenbury
##	123	123	Riverdale
##	124	124	Greenborough
##	125	125	Auness
##	126	126	Princeport
##	127	127	Baydol
##	128	128	Princeview
##	129	129	Applepool
##	130	130	Parkwich
##	131	131	Griffindol
##	132	132	Lexingfield
##	133	133	Mansley
##	134	134	Kingburg
##	135	135	Lunpool
##	136	136	Southfield
##	137	137	Tallton
##	138	138	Watercester
##	139	139	Norbury
##	140	140	Saltside
##	141	141	Cloudside
##	142	142	Manborough
##	143	143	Valenstead
##	144	144	Southby
##	145	145	Richtown
##	146	146	Fauxby
##	147	147	Factdale
##	148	148	Gilbury
			-

##	149	149	Pinemouth
##	150	150	Cloudton
##	151	151	Waltburgh
##	152	152	Skilltown
##	153	153	Jameshampton
##	154	154	Waterham
##	155	155	Frostview
##	156	156	Wheelcaster
##	157	157	Southingpool
##	158	158	Postborough
##	159	159	Lexinggrad
##	160	160	Freefield
##	161	161	Strongland
##	162	162	Beachpool
##	163	163	Fishdol
##	164	164	Fayworth
##	165	165	Southingdale
##	166	166	Millburgh
##	167	167	Mannorfield
##	168	168	Aelcester
##	169	169	Saygrad
##	170	170	Princedol
##	171	171	Saycester
##	172	172	Wingland
##	173	173	Sandby
##	174	174	Postmouth
##	175	175	Manstead
##	176	176	Fishpool
##	177	177	Oakbrough
##	178	178	Saltborough
##	179	179	Sealey
##	180	180	Duckcaster
##	181	181	Hosham
##	182	182	Baydale
##	183	183	Northley
##	184	184	Fishdale
##	185	185	Elmouth
##	186	186	Parkford
##	187	187	Hollowness
##	188	188	Eaststead
##	189	189	Springmouth
##	190	190	Bridgeland
##	191	191	Sageside
##	192	192	Gilwich
##	193	193	Sweetdol
##	194	194	Highville
##	195	195	Cloudmouth
##	196	196	Beachworth
##	197	197	Westley
##	198	198	Fairville
##	199	199	Augrad
##	200	200	Hallbrough
##	201	201	Backland
##	202	202	Stonecaster

## 203	203	Lunness
## 204	204	Waterbury
## 205	205	Daytown
## 206	206	Rosehampton
## 207	207	Foxville
## 208	208	Fishland
## 209	209	Fayview
## 210	210	Pailville
## 211	211	Duckbrough
## 212	212	Redbrough
## 213	213	Greenview
## 214	214	Farmborough
## 215	215	Princebrough
## 216	216	Queensburgh
## 217	217	Mansworth
## 218	218	Lunview
## 219	219	Saypool
## 220	220	Appleview
## 221	221	Readingfield
## 222	222	Starcester
## 223	223	Luncester
## 224	224	Fishby
## 225	225	Duckgrad
## 226	226	Waltfield
## 227	227	Saybury
## 228	228	Proville
## 229	229	Tallpool
## 230	230	Ashland
## 231	231	Ashworth
## 232	232	Prostead
## 233	233	Pineham
## 234	234	Sandside
## 235	235	Elness
## 236	236	Seafield
## 237	237	Highside
## 238	238	Bridgeton
## 239	239	Factland
## 240	240	Jamesburgh
## 241	241	Kettleworth
## 242	242	Parkcester
## 243	243	Hamhampton
## 244	244	Applestead
## 245	245	Fairworth
## 246	246	Queensgrad
## 247	247	Caphampton
## 248	248	Southdale
## 249	249	Southingford
## 250	250	Sugarstead
## 251	251	Parkcaster
## 252	252	Sugarcaster
## 253	253	Strongmouth
## 254	254	Eastcester
## 255	255	Mannorbrough
## 256	256	Sagecaster
		_

##	257	257	Hamcester
##	258	258	Hardham
	259	259	Chattown
##	260	260	Lexingville
	261	261	Duckham
##	262	262	Mannormouth
##	263	263	Richmouth
##	264	264	Massburgh
##	265	265	Haphampton
##	266	266	Passdale
##	267	267	Weirstead
##	268	268	Snowwich
##	269	269	Prodale
##	270	270	Highworth
##	271	271	Wheelborough
##	272	272	Foxton
##	273	273	Medgrad
##	274	274	Starford
##	275	275	Southingfield
##	276	276	Seaside
##	277	277	Postcaster
##	278	278	Postley
##	279	279	Dayland
##	280	280	Winburgh
##	281	281	Norport
##	282	282	Farmingpool
##	283	283	Medside
##	284	284	Hapford
##	285	285	Angergrad
##	286	286	Southingmouth
##	287	287	Winterport
##	288	288	Farmingmouth
##	289	289	Faycaster
##	290	290	Highburg
##	291	291	Greengrad
##	292	292	Fishford
##	293	293	Hoscester
##	294	294	Richwich
##	295	295	Strongburgh
##	296	296	Hapton
##	297	297	Bridgehampton
##	298	298	Holtsview
##	299	299	Princewich
##	300	300	Summerborough
##	301	301	Massstead
##	302	302	Northpool
##	303	303	Casterland
##	304	304	Passburg
##	305	305	Princecaster
##	306	306	Hosworth
##	307	307	Redside
##	308	308	Greenpool
##	309	309	Fortpool
##	310	310	Postbury

##	311	311	Hapfield
##	312	312	Ashview
##	313	313	Starcaster
##	314	314	Snowstead
##	315	315	Frosttown
##	316	316	Aeldol
##	317	317	Farmingtown
##	318	318	Stonepool
##		319	Waltgrad
##		320	Norborough
##		321	Capland
##		322	Capside
##		323	Rockgrad
##		324	Queenshampton
##	325	325	Northview
##	326	326	Bellcaster
##	327	327	Waterness
##	328	328	Northwich
##	329	329	Angerbrough
##	330	330	Springbrough
##	331	331	Jamescaster
##	332	332	Sugarmouth
##	333	333	Rosecester
##	334	334	Cruxside
##	335	335	Rockwich
##	336	336	Mayville
##	337	337	Massborough
##	338	338	Holtsham
##	339	339	Wheelford
	340	340	Jameston
	341	341	Queensford
	342	342	Fauxfield
	343	343	Winville
	344	344	Westhampton
	345 346	345	Riverville Cloudcaster
## ##	347	346 347	
	348	348	Melbury Rockville
	349	349	Hollowfield
	350	350	Proton
	351	351	Manville
		352	Elcester
	353	353	Eltown
	354	354	Pinestead
		355	Faircaster
	356	356	Hallford
	357	357	Valenford
##	358	358	Westview
	359	359	Chatport
	360	360	Chatmouth
	361	361	Auville
	362	362	Casterwich
	363	363	Roseville
##	364	364	Sweetwich
		551	2230#1011

##	365	365	Walttown
##	366	366	Roseview
##	367	367	Bannness
##	368	368	Waltwich
##	369	369	Waltby
##	370	370	Backdol
##	371	371	Cruxton
##	372	372	Rockhampton
##	373	373	Hostown
##	374	374	Westdale
##	375	375	Stardale
##	376	376	Fortness
##	377	377	Chatton
##	378	378	Kettleville
##	379	379	Rosecaster
##	380	380	Factburgh
##	381	381	Richgrad
##	382	382	Lunhampton
##	383	383	Saytown
##	384	384	Cloudborough
##	385	385	Reddale
##	386	386	Sugarworth
##	387	387	Holtsgrad
##	388	388	Emerpool
##	389	389	Kingside
##	390	390	Cruxfield
##	391	391	Tallcaster
##	392	392	Kettleland
##	393	393	Sageley
##	394	394	Griffinhampton
##	395	395	Weirpool
##	396	396	Ashport
##	397	397	Gilness
##	398	398	Hapdol
##	399	399	Princeside
##	400	400	Snowview
##	401	401	Gilworth
##	402	402	Northmouth
##	403	403	Proness
	404	404	Appleburgh
	405	405	Griffinmouth
	406	406	Fortgrad
	407	407	Pineford
	408	408	Factley
	409	409	Westham
	410	410	Medburg
	411	411	Kettledale
	412	412	Maybrough
	413	413	Jamesgrad
	414	414	Postside
	414	414	Skillgrad
	416	416	Lexingburg
	417	417	Readingdale
			Queensworth
##	418	418	queenswortn

419	419	Backborough
420	420	Jamestown
421	421	Valenfield
422	422	Tallland
423	423	Saltstead
424	424	Hollowtown
425	425	Lexingbrough
426	426	Belldol
427	427	Weirland
428	428	Lawstead
429	429	Summerton
430	430	Lungrad
431	431	Freeworth
432	432	Parkburg
433	433	Costsville
434	434	Melby
435	435	Millville
436	436	Mannorburgh
437	437	Middleland
438	438	Middlewich
439	439	Auby
440	440	Fairport
441	441	Angerpool
442	442	Farmingley
443	443	Factness
444	444	Skillton
445	445	Oakport
446	446	Redford
447	447	Starness
448	448	Skillcaster
449	449	Medhampton
450	450	Queenswich
451	451	Sweetton
452	452	Redfield
453	453	Fairside
454	454	Luntown
455	455	Bellgrad
456		Rosedale
457	457	Valenham
458	458	Bridgedale
459	459	Holtshampton
460	460	Kingham
461	461	Clouddale
462		Kingmouth
		Sugarborough
		Saltmouth
		Masswich
466	466	Summerbury
467	467	Weirborough
468	468	Masston
469	469	Farmcaster
470	470	Jamesley
471	471	Weirhampton
472	472	Valentown
	420 421 422 423 424 425 426 427 428 430 431 432 433 434 435 436 437 438 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 454 457 458 459 460 461 462 463 464 465 466 467 468 467 468 467 470 471	420       421       421         422       423       423         424       425       426         427       427       428         429       429       430         431       431       432         432       433       434         435       435       436         437       437       438         439       439       440         441       441       441         442       443       443         444       445       445         446       447       447         448       449       449         450       450       451         451       451       455         456       457       457         458       459       459         460       461       461         462       462       463         463       463       466         467       468       468         469       469       470         471       471       471

##	473	473	Stardol
##	474	474	Sagefield
##	475	475	Northside
##	476	476	Factgrad
##	477	477	Eastworth
##	478	478	Capport
##	479	479	Beachborough
##	480	480	Southgrad
##	481	481	Hoswich
##	482	482	Northdale
##	483	483	Holtsstead
##	484	484	Hollowstead
##	485	485	Starby
##	486	486	${ t Snowport}$
##	487	487	Wingbrough
##	488	488	Skillpool
##	489	489	Hogburg
##	490	490	Factbrough
##	491	491	Hardcester
##	492	492	${\tt Sandmouth}$
##	493	493	Mansdale
##	494	494	Roseness
##	495	495	Northton
##	496	496	Valenton
##	497	497	Middleness
##	498	498	Waterville
##	499	499	Winterley
##	500	500	Hallgrad
##	501	501	Lunadol
##	502	502	Sweetby
##	503	503	Duckview
##	504	504	Tallburg
	505	505 506	Cruxgrad
## ##	506 507	506 507	Sweetside
##	508	508	Fortburg Duckfield
##	509	509	Sayford
##	510	510	Melness
##	511	511	Winterburgh
##	512	512	Millcaster
##	513	513	Melview
	514	514	Sugarfield
	515	515	Springdale
##	516	516	Fauxside
##	517	517	Auford
##	518	518	Fairstead
##	519	519	Springford
##	520	520	Beachness
##	521	521	Skillport
##	522	522	Capville
##	523	523	Wingdol
##	524	524	Frostgrad
##	525	525	Manley
##	526	526	Lexingworth

##	527	527	Greenford
##	528	528	Dodgeley
##	529	529	Daydale
##	530	530	Sandborough
##	531	531	Skillham
##	532	532	Prowich
##	533	533	Pinehampton
##	534	534	Casterview
##	535	535	Hollowley
##	536	536	Hardland
##	537	537	Duckland
##	538	538	Masshampton
##	539	539	Hogton
##	540	540	Middlecester
##	541	541	Strongtown
##	542	542	Millwich
##	543	543	Griffinworth
##	544	544	Highdol
##	545	545	Elborough
##	546	546	Snowcester
##	547	547	Parkbury
##	548	548	Princefield
##	549	549	Rockpool
##	550	550	Southingbrough
##	551	551	Meldol
##	552	552	Middlebrough
##	553	553	Masspool
##	554	554	Riverburgh
##	555	555	Costsborough
##	556	556	Passstead
##	557	557	Lunworth
##	558	558	Freepool
##	559	559	Ashdale
##	560	560	Parkside
##	561	561	Valenwich
##	562	562	Passcester
##	563	563	Costsland
##	564	564	Costsburg
##	565	565	Kettlemouth
##	566	566	Kingborough
##	567	567	Millcester
##	568	568	Bannbury
##	569	569	Factville
##	570	570	Parkview
##	571	571	Ashborough
##	572	572	Gildale
##	573	573	Frostdale
##	574	574	Fairburg
##	575	575	Lawtown
##	576	576	Fortdol
	577	577	Lexingdale
	578	578	Hoggrad
		579	Julworth
##	580	580	Cloudford

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##	585	585	Stoneview
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##	588	588	Banncester
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##	592	592	Appleham
##	593	593	Castermouth
##	594	594	Lawborough
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##	606	606	Waterport
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## ##	608 609	608 609	Fortton
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##	633	633	Kettleness
##	634	634	Greenport
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##	655	655	Wincaster
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##	658	658	Waltland
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##	663	663	Southburg
##	664	664	Costsburgh
##	665	665	Julford
##	666	666	Postwich
##	667	667	Hapstead
##	668	668	Starbrough
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##	673	673	Kingwich
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##	685	685	Dodgeborough
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##	687	687	Hogcaster
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##	796	796	Fishhampton

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##	809	809	Angerworth
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##	814	814	Millworth
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##	817	817	Rockdale
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##	847	847	Greenland
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##	855	855	Hogcester
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##	858	858	Factburg
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##	898	898	Windol
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##	904	904	Faystead
##	<i>5</i> 04	304	raystead

## 905	905	Princecester
## 906	906	Fairdol
## 907	907	Fauxpool
## 908	908	Seawich
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## 910	910	Millpool
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## 919	919	Cloudby
## 920	920	Pineness
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## 956	956 956	Lunabrough
## 957	957	Mannorcester
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π# 300	900	wincer boot

##	959	959	Manton
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##	962	962	Backford
##	963	963	Backgrad
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##	969	969	Wingville
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##	971	971	Middlestead
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	972	972	Jamesport
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	÷ 694	205081
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	÷ 699	293987
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            $795,296.24
                          7.57150e+04
## 773
          $1,541,753.69
                          1.11285e+05
## 774
          $1,733,551.71
                          1.50012e+05
## 775
          $1,076,361.29
                          8.22150e+04
          $1,269,861.22
## 776
                          9.86790e+04
          $1,368,327.47
## 777
                          1.18845e+05
## 778
          $1,420,733.27
                          1.64571e+05
##
  779
            $887,290.27
                          6.84050e+04
## 780
            $363,332.71
                          2.35410e+04
## 781
          $1,159,922.64
                          8.48950e+04
## 782
          $2,193,005.64
                          1.36850e+05
## 783
          $1,059,008.86
                          9.59970e+04
## 784
          $1,428,872.24
                          7.49760e+04
## 785
            $597,974.94
                          5.97700e+04
## 786
          $1,105,554.19
                          1.01305e+05
## 787
            $216,129.49
                          4.75200e+03
## 788
            $174,936.19
                          9.59000e+02
## 789
          $1,703,961.55
                          9.59720e+04
## 790
            $475,595.61 4.11200e+04
```

```
## 791
          $1,296,835.88
                          1.13127e+05
## 792
            $767,244.44
                          5.88060e+04
                          2.12738e+05
## 793
          $2,697,472.04
## 794
          $1,867,517.34
                          1.77640e+05
## 795
            $763,538.93
                          5.80010e+04
## 796
          $1,591,405.36
                          1.30953e+05
## 797
          $1,751,698.10
                          1.08130e+05
## 798
            $396,253.75
                          1.09980e+04
## 799
          $1,153,515.92
                          9.25130e+04
## 800
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                          1.15330e+04
## 801
            $580,230.27
                          3.28080e+04
## 802
          $1,415,820.48
                          1.42438e+05
## 803
            $886,641.23
                          5.27040e+04
## 804
            $382,524.49
                          1.84460e+04
## 805
            $507,011.33
                          3.07970e+04
## 806
            $889,120.27
                          7.25400e+04
## 807
            $535,564.99
                          4.95380e+04
## 808
            $387,146.44
                          1.76180e+04
## 809
          $1,464,620.10
                          1.01472e+05
## 810
            $763,400.71
                          6.92420e+04
## 811
            $605,453.27
                          6.31410e+04
## 812
            $997,305.25
                          7.60370e+04
## 813
            $277,888.44
                          1.08340e+04
## 814
            $762,659.97
                          4.99520e+04
## 815
            $733,747.18
                          4.48120e+04
## 816
            $774,581.64
                          5.40450e+04
## 817
          $1,485,977.43
                          1.12562e+05
## 818
            $577,232.30
                          3.11620e+04
## 819
            $816,945.03
                          5.31260e+04
## 820
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                          1.35519e+05
## 821
            $712,762.95
                          3.76440e+04
## 822
            $664,910.96
                          5.13150e+04
## 823
            $603,455.71
                          5.41060e+04
          $1,357,239.38
## 824
                          1.25027e+05
## 825
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                          7.31050e+04
## 826
            $934,038.73
                          4.37440e+04
## 827
            $719,650.26
                          5.92840e+04
## 828
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## 829
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## 830
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                          2.47890e+04
## 831
            $256,283.29
                          1.38890e+04
## 832
            $380,457.62
                          4.66870e+04
## 833
            $561,589.37
                          3.78380e+04
## 834
            $562,654.91
                          3.43170e+04
## 835
            $637,427.56
                          4.91490e+04
## 836
                          2.59130e+04
            $426,693.44
                          9.08060e+04
## 837
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## 838
            $342,407.51
                          1.19520e+04
            $626,254.81
## 839
                          6.33050e+04
## 840
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                          3.16240e+04
## 841
            $552,638.49
                          3.04150e+04
## 842
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                          2.39620e+04
          $1,445,565.88
## 843
                          8.68600e+04
## 844
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                          7.01500e+04
```

```
## 845
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                          4.88950e+04
            $368,036.88
## 846
                          3.09380e+04
                          2.82761e+05
## 847
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## 848
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                          2.91079e+05
## 849
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                          7.39820e+04
          $1,289,773.80
## 850
                          9.96920e+04
## 851
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                          9.76790e+04
            $322,172.62
## 852
                          1.78500e+04
## 853
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                          3.20370e+04
## 854
            $634,155.87
                          4.63500e+04
## 855
            $974,035.73
                          2.80940e+04
## 856
            $494,385.89
                          5.59000e+04
##
  857
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## 858
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## 859
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                          6.51560e+04
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## 861
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                          1.77308e+05
## 862
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## 863
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                          1.18140e+04
## 864
            $614,755.07
                          4.01610e+04
## 865
            $778,797.28
                          1.36560e+04
## 866
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                          8.06800e+03
## 867
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                          9.31570e+04
## 868
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                          7.38220e+04
          $2,352,717.09
## 869
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## 870
            $828,723.83
                          6.55900e+04
## 871
          $1,865,086.41
                          1.49686e+05
## 872
            $617,417.23
                          4.14630e+04
## 873
          $1,033,513.91
                          1.26670e+05
## 874
            $990,907.73
                          7.05120e+04
## 875
            $212,081.15
                          1.64590e+04
## 876
          $1,617,964.23
                          1.21595e+05
## 877
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                          1.74600e+04
## 878
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                          2.02634e+05
## 879
            $990,872.19
                          5.85190e+04
## 880
            $520,202.01
                          4.54340e+04
## 881
            $539,848.72
                          2.19660e+04
## 882
          $1,090,207.81
                          4.50140e+04
## 883
                          3.45590e+04
            $574,417.17
## 884
            $581,886.96
                          7.01630e+04
## 885
            $967,947.41
                          8.62510e+04
## 886
            $378,776.50
                          3.16850e+04
##
  887
            $578,808.90
                          3.03510e+04
##
  888
            $488,759.89
                          3.98110e+04
## 889
            $694,019.36
                          5.93270e+04
## 890
          $1,669,598.39
                          1.58582e+05
## 891
          $2,739,799.75
                          3.28475e+05
## 892
          $1,535,076.48
                          1.30739e+05
## 893
            $400,040.38
                          1.96320e+04
## 894
            $831,435.99
                          4.78720e+04
## 895
            $818,251.30
                          5.72040e+04
## 896
            $735,887.62
                          7.73760e+04
          $2,267,704.81
## 897
                          1.61478e+05
## 898
            $930,493.80 7.05390e+04
```

```
$1,118,552.78
## 899
                          7.95490e+04
## 900
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                          3.48010e+05
            $921,787.14
                          7.23780e+04
## 901
## 902
          $1,026,755.25
                          1.42911e+05
## 903
            $473,037.75
                          2.75100e+04
## 904
            $963,340.21
                          8.96550e+04
## 905
          $1,233,164.84
                          1.46006e+05
## 906
            $773,514.47
                          6.65390e+04
## 907
          $1,187,230.92
                          8.92660e+04
## 908
          $1,030,322.47
                          6.11970e+04
## 909
            $702,231.32
                          6.58740e+04
## 910
          $2,314,839.71
                          1.98935e+05
                          1.96918e+05
## 911
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## 912
          $1,034,119.38
                          7.14500e+04
## 913
            $906,922.11
                          1.10081e+05
## 914
            $365,705.99
                          2.38800e+04
## 915
            $857,075.10
                          8.76540e+04
## 916
            $487,219.68
                          5.56450e+04
## 917
          $1,234,573.50
                          1.07081e+05
## 918
          $1,054,855.48
                          9.94780e+04
## 919
          $1,562,695.23
                          1.42342e+05
## 920
            $382,213.48
                          1.72820e+04
## 921
            $538,245.56
                          6.44490e+04
## 922
            $959,512.86
                          6.65340e+04
## 923
          $1,721,688.93
                          3.00000e+00
## 924
            $441,896.67
                          1.05400e+04
## 925
            $800,546.56
                          4.79200e+04
## 926
            $690,068.00
                          4.28740e+04
## 927
            $583,585.25
                          3.10250e+04
## 928
          $1,378,518.77
                          1.30901e+05
## 929
          $2,809,880.78
                          2.76635e+05
## 930
          $1,944,096.79
                          1.40997e+05
## 931
            $509,608.35
                          3.72510e+04
## 932
          $1,028,516.38
                          5.48060e+04
## 933
            $920,003.77
                          7.51060e+04
## 934
          $1,070,434.20
                          5.72030e+04
## 935
            $207,568.19
                          8.57700e+03
## 936
            $644,717.84
                          3.98680e+04
## 937
          $1,163,363.52
                          7.25210e+04
## 938
          $1,462,017.50
                          1.38081e+05
## 939
            $604,559.78
                          3.68050e+04
## 940
          $1,586,465.45
                          9.96620e+04
## 941
            $781,925.84
                          5.26220e+04
          $1,037,061.25
## 942
                          1.12068e+05
## 943
            $953,723.79
                          1.05511e+05
## 944
            $727,183.94
                          6.74910e+04
## 945
          $2,551,100.85
                          2.58375e+05
## 946
            $255,505.12
                          1.97990e+04
## 947
          $1,166,164.35
                          7.16120e+04
## 948
            $617,627.89
                          2.37130e+04
## 949
            $522,600.84
                          2.39520e+04
## 950
            $534,540.35
                          4.68200e+04
            $138,384.28
## 951
                          4.65700e+03
## 952
            $623,954.86
                          6.86010e+04
```

```
## 953
          $1,131,393.54
                          7.97800e+04
## 954
          $1,173,364.95
                          6.46630e+04
            $253,405.52
## 955
                          1.43350e+04
## 956
            $660,942.21
                          2.26150e+04
## 957
            $917,836.65
                          6.54720e+04
## 958
          $1,073,425.45
                          6.83480e+04
            $992,279.23
## 959
                          7.99360e+04
## 960
            $621,088.82
                          4.74180e+04
## 961
             $84,701.55
                          6.63800e+03
## 962
            $492,912.45
                          1.71090e+04
## 963
            $395,057.64
                          1.67280e+04
## 964
          $1,124,291.56
                          6.60030e+04
## 965
            $763,619.53
                          6.50830e+04
## 966
            $686,172.35
                          6.02100e+04
## 967
          $1,275,987.70
                          1.20190e+05
## 968
          $1,509,833.10
                          1.07892e+05
## 969
            $456,901.10
                          3.85040e+04
## 970
         -$1,782,195.35
                          1.57036e+05
## 971
          $2,564,026.93
                          2.06330e+05
## 972
          $2,479,030.98
                          2.28220e+05
## 973
            $622,861.80
                          4.72040e+04
## 974
            $186,336.08
                          1.16290e+04
## 975
          $1,691,208.84
                          1.73522e+05
## 976
            $748,783.78
                          5.38400e+04
            $982,146.53
## 977
                          1.13611e+05
## 978
          $1,650,719.90
                          1.44377e+05
## 979
          $2,254,142.40
                          2.58688e+05
          $1,705,119.04
## 980
                          1.29757e+05
## 981
          $1,255,523.09
                          9.36670e+04
## 982
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                          8.09230e+04
## 983
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                          1.57707e+05
## 984
          $1,401,703.77
                          9.20020e+04
## 985
          $1,099,614.74
                          9.86000e+04
## 986
          $2,156,426.27
                          1.93126e+05
## 987
          $1,152,289.26
                          8.31230e+04
## 988
            $564,010.20
                          4.45500e+04
## 989
            $226,345.69
                          7.54600e+03
## 990
            $257,058.48
                          2.30570e+04
## 991
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                          1.94851e+05
## 992
          $1,003,702.37
                          4.96180e+04
## 993
            $204,375.13
                          1.23510e+04
## 994
            $380,474.77
                          1.38030e+04
## 995
            $869,462.66
                          7.88850e+04
## 996
          $1,295,028.41
                          6.90000e+04
## 997
            $562,506.22
                          5.43170e+04
## 998
                          2.05680e+04
            $357,714.91
## 999
            $778,431.09
                          7.14990e+04
## 1000
            $718,721.38
                          3.21860e+04
## 1001
            $941,807.18
                          8.44570e+04
```

## inspect\_na(n\_data)

```
## # A tibble: 5 x 3
## col_name cnt pcnt
```

```
<chr>
                  <int> <dbl>
##
## 1 sales
                      1 0.0999
## 2 row num
                      0 0
                      0 0
## 3 name
## 4 population
                      0 0
## 5 advertising
                      0 0
for (i in 1:nrow(n_data)){
  if (is.na(n_data$population[i])
      |is.na(n_data$advertising[i])|is.na(n_data$sales[i]))
    {
      n_data <- n_data[-i, ]</pre>
  }
}
n_{data}
```

```
##
        row_num
                            name
## 1
               1
                     Fairhampton
## 2
               2
                         Ashwich
## 3
               3
                      Rockcaster
## 4
               4
                        Hogstead
## 5
               5
                        Snowgrad
               6
## 6
                       Sweetport
               7
##
                      Passcaster
## 8
               8
                        Parkdale
## 9
               9
                         Hogbury
## 11
              11
                      Hallcester
## 12
              12
                     Farmhampton
## 13
              13
                         Norness
## 14
              14
                          Redton
## 15
              15
                     Princemouth
## 16
              16
                      Wheelfield
## 17
              17
                         Millton
## 18
              18
                     Rivermouth
## 19
              19
                        Bannview
## 20
              20
                         Hapness
## 21
              21
                       Princeham
              22
## 22
                      Summerwich
## 23
              23
                         Manport
## 24
              24
                        Bellbury
## 25
              25
                        Dodgedol
## 26
              26
                      Middleport
## 27
              27
                       Northness
## 28
              28
                        Fairwich
## 29
              29
                           Auley
## 30
              30
                   Southhampton
## 31
              31
                      Frostburgh
## 32
              32
                         Winport
## 33
              33
                        Sayworth
## 34
              34
                       Sageworth
## 35
              35
                          Duckby
## 36
              36
                        Farmgrad
## 37
              37
                       Saltburgh
```

##	38	38	Fishham
##	39	39	Postport
##	40	40	Hallhampton
##	41	41	Southingcaster
##	42	42	Emermouth
##	43	43	Hollowham
##	44	44	Chatpool
##	45	45	Starwich
##	46	46	Medbrough
##	47	47	Kingfield
##	48	48	Waterham
##	49	49	Auland
##	50	50	Capcester
##	51	51	Winburg
##	52	52	Hardgrad
##	53	53	Dodgeburg
##	54	54	Stoneborough
##	55	55	Gilview
##	56	56	Cruxstead
##	57	57	Mannorworth
##	58	58	Bayport
##	59	59	Wheelton
##	60	60	Angerhampton
##	61	61	Hardby
##	62	62	Seastead
##	63	63	Beachton
##	64	64	Bridgedol
##	65	65	Ashham
##	66	66	Foxgrad
##	67	67	Stonebrough
##	68	68	Probrough
##	69	69	Princeland
##	70	70	
##	71	70	Auhampton
	72	72	Appletown
## ##	73	73	Hogtown
##	74		Julley Duckworth
##	7 <del>4</del> 75	74 75	Kettletown
		75 76	
##	76 77	76	Julbury
##	77	77	Kingdol
##	78	78	Castercester
##	79	79	Sweetness
##	80	80	Valenside
##	81	81	Massbury
##	82	82	Roseland
##	83	83	Weirport
##	84	84	Sandville
##	85	85	Fauxness
##	86	86	Beachburg
##	87	87	Costsgrad
##	88	88	Faygrad
##	89	89	Aelhampton
##	90	90	Sandburg
##	91	91	Lunburg

##	92	92	Norbrough
##	93	93	Sugarbrough
##	94	94	Norburg
##	95	95	Postfield
##	96	96	Mannorley
##	97	97	Hamley
##	98	98	Southingburg
##	99	99	Gilside
##	100	100	Strongness
##	101	101	Skillley
##	102	102	Melham
##	103	103	Passview
##	104	104	Southingtown
##	105	105	Eastwich
##	106	106	Greendol
##	107	107	Chathampton
##	108	108	Greenstead
##	109	109	Massport
##	110	110	Haptown
##	111	111	Farmmouth
##	112	112	Dayside
##	113	113	Medborough
##	114	114	Lunaland
##	115	115	Parkness
##	116	116	Farmland
##	117	117 118	Kingview
##	118 119	119	Angerford Sagebury
##	120	120	Costspool
##	121	120	Pineville
##	122	121	Valenbury
##	123	123	Riverdale
##	124	123	Greenborough
##	125	125	Auness
##	126	126	Princeport
##	127	127	Baydol
##	128	128	Princeview
##	129	129	Applepool
##	130	130	Parkwich
##	131	131	Griffindol
##	132	132	Lexingfield
##	133	133	Mansley
##	134	134	Kingburg
##	135	135	Lunpool
##	136	136	Southfield
##	137	137	Tallton
##	138	138	Watercester
##	139	139	Norbury
##	140	140	Saltside
##	141	141	Cloudside
##	142	142	Manborough
##	143	143	Valenstead
##	144	144	Southby
##	145	145	Richtown

## 146	146	Fauxby
## 147	147	Factdale
## 148	148	Gilbury
## 149	149	Pinemouth
## 150	150	Cloudton
## 151	151	Waltburgh
## 152	152	Skilltown
## 153	153	Jameshampton
## 154	154	Waterham
## 155	155	Frostview
## 156	156	Wheelcaster
## 157	157	Southingpool
## 158	158	Postborough
## 159	159	Lexinggrad
## 160	160	Freefield
## 161	161	Strongland
## 162	162	Beachpool
## 163	163	Fishdol
## 164	164	Fayworth
## 165	165	Southingdale
## 166	166	Millburgh
## 167	167	Mannorfield
## 168	168	Aelcester
## 169	169	Saygrad
## 170	170	Princedol
## 171	171	Saycester
## 172	172	Wingland
## 173	173	Sandby
## 174	174	Postmouth
## 175	175	Manstead
## 176	176	Fishpool
## 177	177	Oakbrough
## 178	178	Saltborough
## 179	179	Sealey
## 180	180	Duckcaster
## 181	181	Hosham
## 182	182	Baydale
## 183	183	Northley
## 184	184	Fishdale
## 185	185	Elmouth
## 186	186	Parkford
## 187	187	Hollowness
## 188	188	Eaststead
## 189	189	
	190	Springmouth Bridgeland
		_
## 191	191	Sageside
## 192	192	Gilwich
## 193	193	Sweetdol
## 194	194	Highville
## 195	195	Cloudmouth
## 196	196	Beachworth
## 197	197	Westley
## 198	198	Fairville
## 199	199	Augrad

##	200	200	Hallbrough
##	201	201	Backland
##	202	202	Stonecaster
##	203	203	Lunness
##	204	204	Waterbury
##	205	205	Daytown
##	206	206	Rosehampton
##	207	207	Foxville
##	208	208	Fishland
##	209	209	Fayview
##	210	210	Pailville
##	211	211	Duckbrough
##	212	212	Redbrough
##	213	213	Greenview
##	214	214	Farmborough
##	215	215	Princebrough
##	216	216	Queensburgh
##	217	217	Mansworth
##	218	218	Lunview
##	219	219	Saypool
##	220	220	Appleview
##	221	221	Readingfield
##	222	222	Starcester
##	223	223	Luncester
##	224	224	Fishby
##	225	225	Duckgrad
##	226	226	Waltfield
##	227	227	Saybury
##	228	228	Proville
##	229	229	Tallpool
##	230	230	Ashland
##	231	231	Ashworth
##		232	Prostead
##	233	233	Pineham
		234	Sandside
##	235	235	Elness
##	236	236	Seafield
##	237	237	Highside
##	238	238	Bridgeton
##	239	239	Factland
##	240	240	Jamesburgh
##	241	241	Kettleworth
	242	242	Parkcester
##	243	243	Hamhampton
	244	244	Applestead
##	245	245	Fairworth
		246	Queensgrad
	247	247	Caphampton
	248	248	Southdale
	249	249	Southingford
	250	250	Sugarstead
	251	251	Parkcaster
	252	252	Sugarcaster
##	253	253	Strongmouth
	_55	200	

##	254	254	Eastcester
##		255	Mannorbrough
	256	256	Sagecaster
	257	257	Hamcester
##	258	258	Hardham
##	259	259	Chattown
##	260	260	Lexingville
##		261	Duckham
##	262	262	Mannormouth
##	263	263	Richmouth
##	264	264	Massburgh
##	265	265	Haphampton
##	266	266	Passdale
##	267	267	Weirstead
##	268	268	Snowwich
##	269	269	Prodale
##	270	270	Highworth
##	271	271	Wheelborough
##	272	272	Foxton
##	273	273	Medgrad
##	274	274	Starford
##	275	275	Southingfield
##	276	276	Seaside
##	277	277	Postcaster
##	278	278	Postley
##	279	279	Dayland
##	280	280	Winburgh
##	281	281	Norport
##	282	282	Farmingpool
##	283	283	Medside
##	284	284	Hapford
##	285	285	Angergrad
##	286	286	Southingmouth
##	287	287	Winterport
##	288	288	Farmingmouth
##	289	289	Faycaster
##	290	290	Highburg
##	291	291	Greengrad
##	292	292	Fishford
##	293	293	Hoscester
##	294	294	Richwich
##	295	295	Strongburgh
##	296	296	Hapton
##	297	297	Bridgehampton
##	298	298	Holtsview
##	299	299	Princewich
##	300	300	Summerborough
##	301	301	Massstead
##	302	302	Northpool
##	303	303	Casterland
##	304	304	Passburg
##	305	305	Princecaster
##	306	306	Hosworth
##	307	307	Redside

## 308	308	Greenpool
## 309	309	Fortpool
## 310	310	Postbury
## 311	311	Hapfield
## 312	312	Ashview
## 313	313	Starcaster
## 314	314	Snowstead
## 315	315	Frosttown
## 316	316	Aeldol
## 317	317	Farmingtown
## 318	318	Stonepool
## 319	319	Waltgrad
## 320	320	Norborough
## 321	321	Capland
## 322	322	Capside
## 323	323	Rockgrad
## 324	324	Queenshampton
## 325	325	Northview
## 326	326	Bellcaster
## 327	327	Waterness
## 328	328	Northwich
## 329	329	Angerbrough
## 330	330	Springbrough
## 331	331	Jamescaster
## 332	332	Sugarmouth
## 333	333	Rosecester
## 334	334	Cruxside
## 335	335	Rockwich
## 336	336	Mayville
## 337	337	Massborough
## 338	338	Holtsham
## 339	339	Wheelford
## 340	340	Jameston
## 341	341	Queensford
## 342	342	Fauxfield
## 343	343	Winville
## 344	344	Westhampton
## 345	345	Riverville
## 346	346	Cloudcaster
## 347	347	Melbury
## 348	348	Rockville
## 349	349	Hollowfield
## 349 ## 350	350	Proton
## 350 ## 351	350	Manville
	351	
## 352 ## 353		Elcester
## 353	353	Eltown
## 354 ## 355	354	Pinestead
## 355 ## 356	355	Faircaster
## 356 ## 357	356	Hallford
## 357	357	Valenford
## 358	358	Westview
## 359	359	Chatport
## 360	360	Chatmouth
## 361	361	Auville

##	362	362	Casterwich
##	363	363	Roseville
##	364	364	Sweetwich
##	365	365	Walttown
##	366	366	Roseview
##	367	367	Bannness
##	368	368	Waltwich
##	369	369	Waltby
##	370	370	Backdol
##	371	371	Cruxton
##	372	372	Rockhampton
##	373	373	Hostown
##	374	374	Westdale
##	375	375	Stardale
##	376	376	Fortness
##	377	377	Chatton
##	378	378	Kettleville
##	379	379	Rosecaster
##	380	380	Factburgh
##	381	381	Richgrad
##	382	382	Lunhampton
##	383	383	Saytown
##	384	384	Cloudborough
##	385	385	Reddale
##	386	386	Sugarworth
##	387	387	Holtsgrad
##	388	388	Emerpool
##	389	389	Kingside
##	390	390	Cruxfield
##	391	391	Tallcaster
##	392	392	Kettleland
##	393	393	Sageley
##	394	394	${\tt Griffinhampton}$
##	395	395	Weirpool
##	396	396	Ashport
##	397	397	Gilness
##	398	398	Hapdol
##	399	399	Princeside
##	400	400	Snowview
##	401	401	Gilworth
##	402	402	Northmouth
##	403	403	Proness
	404	404	Appleburgh
	405	405	Griffinmouth
	406	406	Fortgrad
	407	407	Pineford
	408	408	Factley
	409	409	Westham
	410	410	Medburg
		411	Kettledale
	412	412	Maybrough
	413	413	Jamesgrad
	414	414	Postside
##	415	415	Skillgrad

## 416	416	Lexingburg
## 417	417	Readingdale
## 418	418	Queensworth
## 419	419	Backborough
## 420	420	Jamestown
## 421	421	Valenfield
## 422	2 422	Tallland
## 423	423	Saltstead
## 424	424	Hollowtown
## 425	425	Lexingbrough
## 426	426	Belldol
## 427	427	Weirland
## 428	428	Lawstead
## 429	429	Summerton
## 430	430	Lungrad
## 431	. 431	Freeworth
## 432	2 432	Parkburg
## 433		Costsville
## 434		Melby
## 435		Millville
## 436		Mannorburgh
## 437		Middleland
## 438		Middlewich
## 439		Auby
## 440		Fairport
## 441		Angerpool
## 442		Farmingley
## 443		Factness
## 444		Skillton
## 445		Oakport
## 446		Redford
## 447		Starness
## 448		Skillcaster
## 449		Medhampton
## 450		Queenswich
## 451		Sweetton
## 452		Redfield
## 452		Fairside
		Luntown
## 455		Bellgrad
## 456		Rosedale
## 457		Valenham
## 458		Bridgedale
## 459		Holtshampton
## 460		Kingham
## 461		Clouddale
## 462		Kingmouth
## 463		Sugarborough
## 464		Saltmouth
## 465		Masswich
## 466		Summerbury
## 467		Weirborough
## 468		Masston
## 469	469	Farmcaster

##	470	470	Jamesley
##	471	471	Weirhampton
##	472	472	Valentown
##	473	473	Stardol
##	474	474	Sagefield
##	475	475	Northside
##	476	476	Factgrad
##	477	477	Eastworth
##	478	478	Capport
##	479	479	Beachborough
##	480	480	Southgrad
##	481	481	Hoswich
##	482	482	Northdale
##	483	483	Holtsstead
##	484	484	Hollowstead
##	485	485	Starby
##	486	486	Snowport
##	487	487	Wingbrough
##	488	488	Skillpool
##	489	489	Hogburg
##	490	490	Factbrough
##	491	491	Hardcester
##	492	492	Sandmouth
##	493	493	Mansdale
##	494	494	Roseness
##	495	495	Northton
##	496	496	Valenton
##	497	497	Middleness
##	498	498	Waterville
##	499	499	Winterley
##	500	500	Hallgrad
##	501	501	Lunadol
##	502	502	Sweetby
##	503	503	Duckview
##	504	504	Tallburg
##	505	505	Cruxgrad
##	506	506	Sweetside
##	507	507	Fortburg
##	508	508	Duckfield
##	509	509	Sayford
##	510	510	Melness
##	511	511	Winterburgh
##	512	512	Millcaster
##	513	513	Melview
##	514	514	Sugarfield
##	515	515	Springdale
##	516	516	Fauxside
##	517	517	Auford
##	518	518	Fairstead
##	519	519	Springford
##	520	520	Beachness
##	521	521	Skillport
##	522	522	Capville
##	523	523	Wingdol

##	524	524	Frostgrad
##	525	525	Manley
##	526	526	Lexingworth
##	527	527	Greenford
##	528	528	Dodgeley
##	529	529	Daydale
##	530	530	Sandborough
##	531	531	Skillham
##	532	532	Prowich
##	533	533	Pinehampton
##	534	534	Casterview
##	535	535	Hollowley
##	536	536	Hardland
##	537	537	Duckland
##	538	538	Masshampton
##	539	539	Hogton
##	540	540	Middlecester
##	541	541	Strongtown
##	542	542	Millwich
##	543	543	Griffinworth
##	544	544	Highdol
##	545	545	Elborough
##	546	546	Snowcester
##	547	547	Parkbury
##	548	548	Princefield
##	549	549	Rockpool
##	550	550	Southingbrough
##	551	551	Meldol
##	552	552	Middlebrough
##	553	553	Masspool
##	554	554	Riverburgh
##	555	555	Costsborough
##	556	556 557	Passstead
## ##	557	557	Lunworth
	558	558 EE0	Freepool Ashdale
## ##	559 560	559 560	Parkside
##	561	561	Valenwich
##	562	562	
##	563	563	Passcester Costsland
##	564	564	Costsburg
##	565	565	Kettlemouth
##	566	566	Kettlemouth
##	567	567	Millcester
##	568	568	Bannbury
##	569	569	Factville
##	570	570	Parkview
##	571	571	Ashborough
##	572	572	Gildale
##	573	573	Frostdale
	574	574	Fairburg
	575	575	Lawtown
	576	576	Fortdol
##	577	577	Lexingdale
		0.1	=2=.04410

##	578	578	Hoggrad
##	579	579	Julworth
##	580	580	Cloudford
##	581	581	Fayside
##	582	582	Beachcaster
##	583	583	Strongborough
##	584	584	Lunmouth
##	585	585	Stoneview
##	586	586	Weirham
##	587	587	Castergrad
##	588	588	Banncester
##	589	589	Costsview
##	590	590	Mayborough
##	591	591	Lexingby
##	592	592	Appleham
##	593	593	Castermouth
##	594	594	Lawborough
##	595	595	Mayham
##	596	596	Southingwich
##	597	597	Baypool
##	598	598	Stonecester
##	599	599	Backfield
##	600	600	Lexingcaster
##	601	601	Middleview
##	602	602	Backpool
##	603	603	Manbrough
##	604	604	Queensby
##	605	605	Hollowview
##	606	606	Waterport
##	607	607	Farmingbury
##	608	608	Costsford
##	609	609	Fortton
##	610	610	Melland
##	611	611	Tallby
##	612	612	Westbury
##	613	613	Millhampton
## ##	614 615	614 615	Massworth Fishfield
##	616		
	617	616 617	Dayburgh Wheelburgh
## ##	618	618	Middleburg
##	619	619	Applefield
##	620	620	Southham
##	621	621	Mansbury
##	622	622	Costsstead
##	623	623	Pailford
##	624	624	Northfield
##	625	625	Westport
##	626	626	Lunaburg
##	627	627	Stoneness
##	628	628	Richworth
##	629	629	Westworth
##	630	630	Aelby
##	631	631	Proford
		001	1101014

##	632	632	Bellhampton
##	633	633	Kettleness
##	634	634	Greenport
##	635	635	Casterhampton
##	636	636	Queensburg
##	637	637	Factcaster
##	638	638	Skillburgh
##	639	639	Lunaford
##	640	640	Manhampton
##	641	641	Riverford
##	642	642	Lundol
##	643	643	Waltville
##	644	644	Highbrough
##	645	645	Norfield
##	646	646	Casterdale
##	647	647	Lawdol
##	648	648	Lunaborough
##	649	649	Julmouth
##	650	650	Winside
##	651	651	Appleley
##	652	652	Julcaster
##	653	653	Julstead
##	654	654	Hosborough
##	655	655	Wincaster
##	656 657	656	Bridgeport
##	657	657	Oakdale
##	658	658	Waltland
## ##	659 660	659 660	Holtsborough Sweetland
##	661	661	Factton
##	662	662	
##	663	663	Highley
##	664	664	Southburg Costsburgh
##	665	665	Julford
##	666	666	Postwich
##	667	667	Hapstead
##	668	668	Starbrough
##	669	669	Pineton
##	670	670	Seaworth
##	671	671	Bellwich
##	672	672	Eastside
##	673	673	Kingwich
##	674	674	Gilmouth
##	675	675	Seaness
##	676	676	Massford
##	677	677	Wheelbury
##	678	678	Freeland
##	679	679	Cruxby
##	680	680	Sageburgh
##	681	681	Holtscester
##	682	682	Princeburgh
##	683	683	Hogbrough
##	684	684	Milldale
##	685	685	Dodgeborough
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##	687	687	Hogcaster
##	688	688	Skillcester
##	689	689	Cruxport
##	690	690	Sandstead
##	691	691	Passland
##	692	692	Fortcaster
##	693	693	Redland
##	694	694	Bayville
##	695	695	Auton
##	696	696	Princedale
##	697	697	Sandpool
##	698	698	Valenport
##	699	699	Mannorville
##	700	700	Medpool
##	701	701	Hollowmouth
##	702	702	Hollowdale
##	703	703	Starborough
##	704	704	Julville
##	705	705	Mancaster
##	706	706	Northgrad
##	707	707	Lunport
##	708	708	Massfield
##	709	709	Frostworth
##	710	710	Fauxdol
##	711	711	Passton
##	712	712	Ashtown
##	713	713	Elby
##	714	714	Lawville
##	715	715	Waterview
##	716	716	Southingley
##	717	717	Fauxmouth
##	718	718	Holtspool
##	719	719	Melton
##	720	720	Redcaster
##	721	721	Elcaster
##	722	722	Wingstead
##	723	723	Middledale
##	724	724	Sandton
##	725	725	Queenscester
##	726	726	Banncaster
##	727	727	Jameswich
##	728	728	Ashside
##	729	729	Griffinwich
##	730	730	Hogley
##	731	731	Valenville
##	732	732	Fauxburg
##	733	733	Sayburg
##	734	734	Fauxport
##	735	735	Bellbrough
##	736	736	Medby
##	737	737	Bridgepool
##	738	738	Pinepool
##	739	739	Princeville

##	740	740	Hapburgh
##	741	741	Sugarburg
##	742	742	Richham
##	743	743	Casterport
##	744	744	Goldton
##	745	745	Winworth
##	746	746	Norcaster
##	747	747	Lexington
##	748	748	Winggrad
##	749	749	Audol
##	750	750	Kington
##	751	751	Wheelgrad
##	752	752	Holtsbury
##	753	753	Millgrad
##	754	754	Hallborough
##	755	755	Stonedol
##	756	756	Hardley
##	757	757	Massdale
##	758	758	Richcaster
##	759	759	Richness
##	760	760	Mannorness
##	761	761	Chatcester
##	762	762	Fortby
##	763	763	Hollowburgh
##	764	764	Dayley
##	765	765	Fayford
##	766	766	Winness
##	767	767	Oakmouth
##	768	768	Westbrough
##	769	769	Snowmouth
##	770	770	Tallgrad
##	771	771	Backley
##	772	772	Redport
##	773	773	Ashford
##	774	774	Bellburg
##	775	775	Wingpool
##	776	776	Lawness
	777	777	Stoneby
##	778	778	Fairfield
##	779	779	Backness
##	780	780	Costsmouth
##	781	781	Mannordol
##	782	782	Lunaham
##	783	783	Dodgeland
##	784	784	Appleworth
##	785	785	Westgrad
##	786	786	Rockbury
##	787	787	Farminggrad
##	788	788	Freeley
##	789	789	Valenpool
##	790	790	Audale
##	791	790	Hapcester
##	792	792	Stonewich
##	793	793	Hardtown
##	133	193	narutown

##	794	794	Southingstead
##	795	795	Bellley
##	796	796	Fishhampton
##	797	797	Bannbrough
##	798	798	Winterby
##	799	799	Southbrough
##	800	800	Freeville
##	801	801	Costsworth
##	802	802	Foxham
##	803	803	Lunford
##	804	804	${\tt Goldhampton}$
##	805	805	Middlemouth
##	806	806	Fortley
##	807	807	Reddol
##	808	808	Bannport
##	809	809	Angerworth
##	810	810	Bannville
##	811	811	Lunaport
##	812	812	Meltown
##	813	813	Fayhampton
##	814	814	Millworth
##	815	815	Auwich
##	816	816	Sugarburgh
##	817	817	Rockdale
##	818	818	Richford
##	819	819	Ashpool
##	820	820	Hallley
##	821	821	
##	822	822	Cloudstead
##	823	823	Saltwich
##	824	824	Lexinghampton
##	825	825	Griffinborough
##	826	826	Summerville
##	827	827	Proview
##	828	828	Costsbrough
##	829	829	Windale
##	830	830	Rockside
##	831	831	Facthampton
##	832	832	Weirview
##	833	833	Melfield
##	834	834	Hallmouth
##	835	835	Pailhampton
##	836	836	Sandtown
##	837	837	Frostby
##	838	838	Sayton
##	839	839	Maywich
##	840	840	Winpool
##	841	841	Cruxhampton
##	842	842	Snowbury
##	843	843	Angerburg
##	844	844	Dodgeness
##	845	845	Hamstead
## ##	846 847	846 847	Bayside Greenland

## 848	848	Lunham
## 849	849	Holtsbrough
## 850	850	Hollowcaster
## 851	851	Fairpool
## 852	852	Bayworth
## 853	853	Sandbury
## 854	854	Fishstead
## 855	855	Hogcester
## 856	856	Medview
## 857	857	Springburg
## 858	858	Factburg
## 859	859	Wheelpool
## 860	860	Errorfield
## 861	861	Bayland
## 862	862	Middleham
## 863	863	Kingley
## 864	864	Capness
## 865	865	Angerham
## 866	866	Normouth
## 867	867	Oakcaster
## 868	868	Fishbrough
## 869	869	Strongworth
## 870	870	Duckville
## 870	871	Julfield
## 871	871	
## 873	873	Beachhampton
## 873 ## 874	874	Banngrad
	875	Chatley
		Aubury
## 876	876 877	Beachham
## 877	877	Bayton
## 878	878	Sweethampton
## 879	879	Fairgrad
## 880	880	Norcester
## 881	881	Auworth
## 882	882	Pinebrough
## 883	883	Dayford
## 884	884	Hosburg
## 885	885	Wingborough
## 886	886	Griffingrad
## 887	887	Sugarland
## 888	888	Melcaster
## 889	889	Readingtown
## 890	890	Richside
## 891	891	Middleworth
## 892	892	Fayburgh
## 893	893	Sagedol
## 894	894	Hardside
## 895	895	Casterbrough
## 896	896	Riverton
## 897	897	Meddol
## 898	898	Windol
## 899	899	Wintermouth
## 900	900	Passwich
## 901	901	Griffinness

##		902	Beachville
##	903 904	903 904	Envetord
##	904		Faystead
## ##	906	905 906	Princecester Fairdol
	907		
##	908	907	Fauxpool Seawich
##		908	
##	909	909	Wingley
## ##	910	910 911	Millpool
	911		Summerland
## ##	912	912	Lunby
##	913	913	Eastmouth
	914	914	Holtsworth
##	915	915	Cruxburgh
##	916	916	Lunapool
##	917	917	Waterfield
##	918	918	Kettleburgh
##	919	919	Cloudby
##	920	920	Pineness
##	921	921	Mannortown
##	922	922	Bannpool
##	923	923	Kettlewich
##	924	924	Eastford
##	925	925	Sandham
##	926	926	Millbrough
##	927	927	Talltown
##	928	928	Daybrough
##	929	929	Casterford
##	930	930	Kingland
##	931	931	Gilcaster
##	932	932	Aufield
##	933	933	Holtsfield
##	934	934	Hogborough
##	935	935	Hardcaster
##	936	936	Southcester
##	937	937	Hogburgh
##	938	938	Southingport
##	939	939	Eastton
##	940	940	Winford
##	941	941	Masstown
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##	943	943	Aumouth
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##	945	945	Emerwich
##	946	946	Daycaster
##	947	947	Gilfield
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##	955	955	Bridgeton

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##	957	957	Mannorcester	
##	958	958	Winterpool	
##	959	959	Manton	
##	960	960	Farmingview	
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##	962	962	Backford	
##	963	963	Backgrad	
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##	967	967	Farmingville	
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	980	980	Manstown	
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	985	985	Casterworth	
	986	986	Fortside	
	987	987	Norstead	
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	990	990	Readingland	
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	996	996	Saltbrough	
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## 616
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## 617
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                          4.68200e+04
## 951
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                         4.65700e+03
```

```
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## 995
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## 996
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## 997
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## 998
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                          2.05680e+04
## 999
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                          7.14990e+04
## 1000
            $718,721.38
                          3.21860e+04
## 1001
            $941,807.18
                          8.44570e+04
```

inspect\_na(n\_data)

## # A tibble: 5 x 3

```
## col_name cnt pcnt
## <chr> <int> <dbl>
## 1 row_num 0 0
## 2 name 0 0
## 2 name
                   0
                          0
## 2 name 0 0 0 ## 3 population 0 0 ## 4 advertising 0 0 ## 5 sales 0 0
duplicates <- filter(n_data, duplicated(n_data$name, fromLast = TRUE))</pre>
duplicates
## row_num
                name population advertising sales
## 1 48 Waterham 335942 $1,235,182.39 102985
                           111530 $253,405.52 14335
## 2 238 Bridgeton
## 3 821
                           305858 $712,762.95 37644
## 4 903
                           175196 $473,037.75 27510
# finding duplicating if any
n_data <- n_data[-duplicates$row_num,]</pre>
n_{data}
```

##	row_num	name
## 1	1	Fairhampton
## 2	2	Ashwich
## 3	3	Rockcaster
## 4	4	Hogstead
## 5	5	Snowgrad
## 6	6	Sweetport
## 7	7	Passcaster
## 8	8	Parkdale
## 9	9	Hogbury
## 11	11	Hallcester
## 12	12	Farmhampton
## 13	13	Norness
## 14	14	Redton
## 15	15	Princemouth
## 16	16	Wheelfield
## 17	17	Millton
## 18	18	Rivermouth
## 19	19	Bannview
## 20	20	Hapness
## 21	21	Princeham
## 22	22	Summerwich
## 23	23	Manport
## 24	24	Bellbury
## 25	25	Dodgedol
## 26	26	${ t Middleport}$
## 27	27	Northness
## 28	28	Fairwich
## 29	29	Auley
## 30	30	${\tt Southhampton}$

## 31	31	Frostburgh
## 32	32	Winport
## 33	33	Sayworth
## 34	34	Sageworth
## 35	35	Duckby
## 36	36	Farmgrad
## 37	37	Saltburgh
## 38	38	Fishham
## 39	39	Postport
## 40	40	Hallhampton
## 41	41	Southingcaster
## 42	42	Emermouth
## 43	43	Hollowham
## 44	44	Chatpool
## 45	45	Starwich
## 46	46	Medbrough
## 47	47	Kingfield
## 48	48	Waterham
## 50	50	Capcester
## 51	51	Winburg
## 52	52	Hardgrad
## 53	53	Dodgeburg
## 54	54	Stoneborough
## 55	55	Gilview
## 56	56	Cruxstead
## 57	57	Mannorworth
## 58	58	Bayport
## 59	59	Wheelton
## 60	60	Angerhampton
## 61	61	Hardby
## 62	62	Seastead
## 63	63	Beachton
## 64	64	Bridgedol
## 65	65	Ashham
## 66	66	
## 67	67	Foxgrad Stonebrough
## 68	68	Probrough
		Princeland
## 69 ## 70	69 70	
## 70	70 71	Auhampton
## 71 ## 70		Appletown
## 72	72	Hogtown
## 73	73	Julley
## 74	74	Duckworth
## 75	75 76	Kettletown
## 76	76	Julbury
## 77	77	Kingdol
## 78	78	Castercester
## 79	79	Sweetness
## 80	80	Valenside
## 81	81	Massbury
## 82	82	Roseland
## 83	83	Weirport
## 84	84	Sandville
## 85	85	Fauxness

##	86	86	Beachburg
##	87	87	Costsgrad
##	88	88	Faygrad
##	89	89	Aelhampton
##	90	90	Sandburg
##	91	91	Lunburg
##	92	92	Norbrough
##	93	93	Sugarbrough
##	94	94	Norburg
##	95	95	Postfield
##	96	96	Mannorley
##	97	97	Hamley
##	98	98	Southingburg
##	99	99	Gilside
##	100	100	Strongness
##	101	101	Skillley
##	102	102	Melham
## ##	103	103 104	Passview
##	104	104	Southingtown
##	105	105	Eastwich Greendol
##	106	100	
##	107 108	107	Chathampton Greenstead
##	109	109	Massport
##	110	110	Haptown
##	111	111	Farmmouth
##	112	112	Dayside
##	113	113	Medborough
##	114	114	Lunaland
##	115	115	Parkness
##	116	116	Farmland
##	117	117	Kingview
##	118	118	Angerford
##	119	119	Sagebury
##	120	120	Costspool
##	121	121	Pineville
##	122	122	Valenbury
##	123	123	Riverdale
##	124	124	Greenborough
##	125	125	Auness
##	126	126	Princeport
##	127	127	Baydol
##	128	128	Princeview
##	129	129	Applepool
##	130	130	Parkwich
##	131	131	Griffindol
##	132	132	Lexingfield
##	133	133	Mansley
##	134	134	Kingburg
##	135	135	Lunpool
##	136	136	Southfield
##	137	137	Tallton
##	138	138	Watercester
##	139	139	Norbury

##	140	140	Saltside
##	141	141	Cloudside
##	142	142	Manborough
##	143	143	Valenstead
##	144	144	Southby
##	145	145	Richtown
##	146	146	Fauxby
##	147	147	Factdale
##	148	148	Gilbury
##	149	149	Pinemouth
##	150	150	Cloudton
##	151	151	Waltburgh
##	152	152	Skilltown
##	153	153	Jameshampton
##	154	154	Waterham
##	155	155	Frostview
##	156	156	Wheelcaster
##	157	157	Southingpool
##	158	158	Postborough
##	159	159	Lexinggrad
##	160	160	Freefield
##	161	161	Strongland
##	162	162	Beachpool
##	163	163	Fishdol
##	164	164	Fayworth
##	165	165	Southingdale
##	166	166	Millburgh
##	167	167	Mannorfield
##	168	168	Aelcester
##	169	169	Saygrad
##	170	170	Princedol
##	171	171	Saycester
##	172	172	Wingland
##	173	173	Sandby
##	174	174	Postmouth
##	175	175	Manstead
##	176	176	Fishpool
##	177	177	Oakbrough
##	178	178	Saltborough
##	179	179	Sealey
##	180	180	Duckcaster
##	181	181	Hosham
##	182	182	Baydale
##	183	183	Northley
##	184	184	Fishdale
##	185	185	Elmouth
##	186	186	Parkford
##	187	187	Hollowness
##	188	188	Eaststead
##	189	189	Springmouth
##	190	190	Bridgeland
##	191	191	Sageside
##	192	192	Gilwich
##	193	193	Sweetdol

##	194	194	Highville
##	195	195	${\tt Cloudmouth}$
##	196	196	Beachworth
##	197	197	Westley
##	198	198	Fairville
##	199	199	Augrad
##	200	200	Hallbrough
##	201	201	Backland
##	202	202	Stonecaster
##	203	203	Lunness
##	204	204	Waterbury
##	205	205	Daytown
##	206	206	Rosehampton
##	207	207	Foxville
##	208	208	Fishland
##	209	209	Fayview
##	210	210	Pailville
##	211	211	Duckbrough
##	212	212	Redbrough
##	213	213	Greenview
##	214	214	Farmborough
##	215	215	Princebrough
##	216	216	Queensburgh
##	217	217	Mansworth
##	218	218	Lunview
##	219	219	Saypool
##	220	220	Appleview
##	221	221	Readingfield
##	222	222	Starcester
##	223	223	Luncester
##	224	224	Fishby
##	225	225	Duckgrad
##	226	226	Waltfield
##	227	227	Saybury Proville
##	228	228	
##	229	229	Tallpool
## ##	230 231	230 231	Ashland Ashworth
##	232	231	Prostead
		232	Pineham
	234	234	Sandside
	235	235	Elness
##		236	Seafield
	237	237	Highside
		238	Bridgeton
##		240	Jamesburgh
##		241	Kettleworth
		242	Parkcester
		243	Hamhampton
	244	244	Applestead
	245	245	Fairworth
	246	246	Queensgrad
	247	247	Caphampton
##	248	248	Southdale

##	249	249	Southingford
##	250	250	Sugarstead
##	251	251	Parkcaster
##	252	252	Sugarcaster
##	253	253	Strongmouth
##	254	254	Eastcester
##	255	255	Mannorbrough
##	256	256	Sagecaster
##	257	257	Hamcester
##	258	258	Hardham
##	259	259	Chattown
##	260	260	Lexingville
##	261	261	Duckham
##	262	262	Mannormouth
##	263	263	Richmouth
##	264	264	Massburgh
##	265	265	Haphampton
##	266	266	Passdale
##	267	267	Weirstead
##	268	268	Snowwich
##	269	269	Prodale
##	270	270	Highworth
##	271	271	Wheelborough
##	272	272	Foxton
##	273	273	Medgrad
##	274	274	Starford
##	275	275	Southingfield
##	276	276	Seaside
##	277	277	Postcaster
##	278	278	Postley
##	279	279	Dayland
##	280	280	Winburgh
##	281	281	Norport
	282	282	Farmingpool
	283	283	Medside
##		284	Hapford
##	285	285	Angergrad
##	286	286	Southingmouth
##	287	287	Winterport
##	288	288	Farmingmouth
##	289	289	Faycaster
		290	Highburg
	291	291	Greengrad
	292	292	Fishford
	293	293	Hoscester
	294	294	Richwich
	295	295	Strongburgh
		296	Hapton
	297	297	Bridgehampton
	298	298	Holtsview
	299	299	Princewich
	300	300	Summerborough
	301	301	Massstead
##	302	302	Northpool

##	303	303	Casterland
##	304	304	Passburg
##	305	305	Princecaster
##	306	306	Hosworth
##	307	307	Redside
##	308	308	Greenpool
##	309	309	Fortpool
##	310	310	Postbury
##	311	311	Hapfield
##	312	312	Ashview
##	313	313	Starcaster
##	314	314	Snowstead
##	315	315	Frosttown
##	316	316	Aeldol
##	317	317	Farmingtown
##	318	318	Stonepool
##	319	319	Waltgrad
##	320	320	Norborough
##	321	321	Capland
##	322	322	Capside
##	323	323	Rockgrad
##	324	324	Queenshampton
##	325	325	Northview
##	326	326	Bellcaster
##	327	327	Waterness
##	328	328	Northwich
##	329	329	Angerbrough
##	330	330	Springbrough
##	331	331	Jamescaster
##	332	332	Sugarmouth
##	333	333	Rosecester
##	334	334	Cruxside
##	335	335	Rockwich
##	336	336	Mayville
##	337	337	Massborough
##	338	338	Holtsham
##	339	339	Wheelford
##	340	340	Jameston
##	341	341	Queensford
##	342	342	Fauxfield
##	343	343	Winville
##	344	344	Westhampton
##	345	345	Riverville
##	346	346	Cloudcaster
##	347	347	Melbury
##	348	348	Rockville
##	349	349	Hollowfield
##	350	350	Proton
##	351	351	Manville
##	352	352	Elcester
##	353	353	Eltown
##	354	354	Pinestead
##	355	355	Faircaster
##	356	356	Hallford

## 357	357	Valenford
## 358	358	Westview
## 359	359	Chatport
## 360	360	Chatmouth
## 361	361	Auville
## 362	362	Casterwich
## 363	363	Roseville
## 364	364	Sweetwich
## 365	365	Walttown
## 366	366	Roseview
## 367	367	Bannness
## 368	368	Waltwich
## 369	369	Waltby
## 370	370	Backdol
## 371	371	Cruxton
## 372	372	Rockhampton
## 373	373	Hostown
## 374	374	Westdale
## 375	375	Stardale
## 376	376	Fortness
## 377	377	Chatton
## 378	378	Kettleville
## 379	379	Rosecaster
## 380	380	Factburgh
## 381	381	Richgrad
## 382	382	Lunhampton
## 383	383	Saytown
## 384	384	Cloudborough
## 385	385	Reddale
## 386	386	
## 387	387	Sugarworth
		Holtsgrad
	388	Emerpool
## 389	389	Kingside
## 390	390	Cruxfield
## 391	391	Tallcaster
## 392	392	Kettleland
## 393	393	Sageley
## 394		Griffinhampton
## 395	395	Weirpool
## 396	396	Ashport
## 397	397	Gilness
## 398	398	Hapdol
## 399	399	Princeside
## 400	400	Snowview
## 401	401	Gilworth
## 402	402	Northmouth
## 403	403	Proness
## 404	404	Appleburgh
## 405	405	Griffinmouth
## 406	406	Fortgrad
## 407	407	Pineford
## 408	408	Factley
## 409	409	Westham
## 410	410	Medburg

##	411	411	Kettledale
##	412	412	Maybrough
##	413	413	Jamesgrad
##	414	414	Postside
##	415	415	Skillgrad
##	416	416	Lexingburg
##	417	417	Readingdale
##	418	418	Queensworth
##	419	419	Backborough
##	420	420	Jamestown
##	421	421	Valenfield
##	422	422	Tallland
##	423	423	Saltstead
##	424	424	Hollowtown
##	425	425	Lexingbrough
##	426	426	Belldol
##	427	427	Weirland
##	428	428	Lawstead
##	429	429	Summerton
##	430	430	Lungrad
##	431	431	Freeworth
##	432	432	Parkburg
##	433	433	Costsville
##	434	434	Melby
##	435	435	Millville
##	436	436	Mannorburgh
##	437	437	Middleland
##	438	438	Middlewich
##	439	439	Auby
	440	440	Fairport
	441	441	Angerpool
	442	442	Farmingley
	443	443	Factness
	444	444	Skillton
	445	445	Oakport
		446	Redford
	447	447	Starness
##	448	448	Skillcaster
	449	449	Medhampton
	450	450	Queenswich
	451	451	Sweetton
		452	Redfield
	453	453	Fairside
	454	454	Luntown
	455	455	Bellgrad
	456	456	Rosedale
	457 458	457 458	Valenham
			Bridgedale
	459	459	Holtshampton
	460	460	Kingham
	461	461	Clouddale
	462	462	Kingmouth
	463	463	Sugarborough
##	464	464	Saltmouth

## 465	465	Masswich
## 466	466	Summerbury
## 467	467	Weirborough
## 468	468	Masston
## 469	469	Farmcaster
## 470	470	Jamesley
## 471	471	Weirhampton
## 472	472	Valentown
## 473	473	Stardol
## 474	474	Sagefield
## 475	475	Northside
## 476	476	Factgrad
## 477	477	Eastworth
## 478	478	Capport
## 479	479	Beachborough
## 480	480	Southgrad
## 481	481	Hoswich
## 482	482	Northdale
## 483	483	Holtsstead
## 484	484	Hollowstead
## 485	485	Starby
## 486	486	Snowport
## 487	487	Wingbrough
## 488	488	Skillpool
## 489	489	Hogburg
## 490	490	Factbrough
## 491	491	Hardcester
## 492	492	Sandmouth
## 493	493	Mansdale
## 494	494	Roseness
## 495	495	Northton
## 496	496	Valenton
## 497	497	Middleness
## 498	498	Waterville
## 499	499	Winterley
## 500	500	Hallgrad
## 500	501	Lunadol
## 501	502	Sweetby
## 502	503	Duckview
## 504 ## 505	504	Tallburg
## 505	505	Cruxgrad
## 506	506	Sweetside
## 507	507	Fortburg
## 508	508	Duckfield
## 509	509	Sayford
## 510	510	Melness
## 511	511	Winterburgh
## 512	512	Millcaster
## 513	513	Melview
## 514	514	Sugarfield
## 515	515	Springdale
## 516	516	Fauxside
## 517	517	Auford
## 518	518	Fairstead

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##	520	520	Beachness
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##	522	522	Capville
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##	527	527	Greenford
##	528	528	Dodgeley
##	529	529	Daydale
##	530	530	Sandborough
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##	548	548	Princefield
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##	550	550	Southingbrough
##	551	551	Meldol
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##	555	555	Costsborough
##	556	556	Passstead
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##	559	559	Ashdale
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##	561	561	Valenwich
##	562	562	Passcester
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##	571	571	Ashborough
##	572	572	Gildale

##	573	573	Frostdale
##	574	574	Fairburg
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##	576	576	Fortdol
##	577	577	Lexingdale
##	578	578	Hoggrad
##	579	579	Julworth
##	580	580	Cloudford
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##	583	583	Strongborough
##	584	584	Lunmouth
##	585	585	Stoneview
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##	588	588	Banncester
##	589	589	Costsview
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##	591	591	Lexingby
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##	593	593	Castermouth
##	594	594	Lawborough
##	595	595	Mayham
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##	597	597	Baypool
##	598	598	Stonecester
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##	655	655	Wincaster
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##	668	668	Starbrough
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##	778	778	Fairfield
##	779	779	Backness
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##	794	794	Southingstead
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##	799	799	Southbrough
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##	803	803	Lunford
##	804	804	${\tt Goldhampton}$
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##	806	806	Fortley
##	807	807	Reddol
##	808	808	Bannport
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##	877	877	Bayton
##	878	878	Sweethampton
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##	887	887	Griffingrad Sugarland
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##	889	889	Readingtown
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##	892	892	Fayburgh
##	893	893	Sagedol
##	894	894	Hardside
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##	896	896	Riverton
##	897	897	Meddol
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##	939	939	Eastton
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##	942	942	Roseport Aumouth
##	943 944	943 944	
##	944	944	Proport Emerwich
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##	949	949	Middleton
##	950	950	Tallhampton
##	951	951	Waterbrough
##	952	952	Auborough
**		<b>-</b>	

```
## 953
             953
                      Fishcaster
## 954
             954
                        Rosetown
## 955
             955
                       Bridgeton
## 956
             956
                      Lunabrough
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##
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                   Mannorcester
## 958
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## 959
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## 960
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## 963
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                        Backgrad
## 964
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## 729
            $806,980.45
                          7.99670e+04
## 730
            $792,490.79
                          4.18660e+04
## 731
            $538,179.46
                          4.19570e+04
## 732
          $1,282,878.92
                          7.44660e+04
## 733
            $315,651.98
                          2.54180e+04
## 734
          $2,396,614.97
                          1.60463e+05
## 735
            $143,031.61
                          1.28090e+04
## 736
            $429,154.79
                          3.26310e+04
## 737
          $1,022,629.27
                          1.08671e+05
## 738
          $1,871,747.74 2.10717e+05
```

```
## 739
            $472,335.98
                          3.33560e+04
## 740
            $900,858.24
                          5.41480e+04
## 741
            $339,078.32
                          3.31880e+04
## 742
            $915,463.74
                          4.82040e+04
## 743
            $635,916.30
                          2.92150e+04
## 744
            $706,582.45
                          6.11110e+04
## 745
          $1,940,138.10
                          1.44129e+05
            $634,186.43
## 746
                          3.77190e+04
## 747
            $726,253.74
                          3.55690e+04
## 748
            $868,830.99
                          7.02210e+04
## 749
          $1,466,601.69
                          1.52225e+05
## 750
            $839,730.13
                          6.59830e+04
## 751
          $2,794,689.87
                          2.54512e+05
## 752
            $556,211.23
                          3.35160e+04
## 753
            $512,981.77
                          2.63200e+04
## 754
          $1,122,096.21
                          1.28493e+05
## 755
          $1,232,678.16
                          9.58810e+04
## 756
            $517,741.24
                          2.70200e+04
## 757
            $835,844.73
                          4.83360e+04
##
  758
          $1,043,544.54
                          9.10130e+04
## 759
            $130,083.62
                          2.48100e+03
## 760
                          2.04812e+05
          $2,050,403.00
## 761
          $1,096,374.97
                          8.02810e+04
## 762
            $659,300.09
                          2.55230e+04
## 763
          $1,158,276.40
                          1.25020e+05
## 764
          $1,333,106.85
                          1.19337e+05
## 765
            $553,067.02
                          7.05680e+04
##
  766
            $371,628.16
                          1.42290e+04
## 767
          $1,712,343.82
                          1.11000e+15
## 768
            $249,216.92
                          1.06340e+04
## 769
            $584,746.88
                          5.71150e+04
## 770
            $459,078.43
                          2.28120e+04
## 771
            $281,518.13
                          2.07330e+04
## 772
            $795,296.24
                          7.57150e+04
  773
          $1,541,753.69
                          1.11285e+05
## 774
          $1,733,551.71
                          1.50012e+05
## 775
          $1,076,361.29
                          8.22150e+04
## 776
          $1,269,861.22
                          9.86790e+04
## 777
          $1,368,327.47
                          1.18845e+05
## 778
          $1,420,733.27
                          1.64571e+05
## 779
            $887,290.27
                          6.84050e+04
## 780
            $363,332.71
                          2.35410e+04
##
  781
          $1,159,922.64
                          8.48950e+04
## 782
          $2,193,005.64
                          1.36850e+05
## 783
          $1,059,008.86
                          9.59970e+04
## 784
                          7.49760e+04
          $1,428,872.24
## 785
            $597,974.94
                          5.97700e+04
## 786
          $1,105,554.19
                          1.01305e+05
## 787
            $216,129.49
                          4.75200e+03
##
  788
            $174,936.19
                          9.59000e+02
## 789
          $1,703,961.55
                          9.59720e+04
## 790
            $475,595.61
                          4.11200e+04
## 791
          $1,296,835.88
                          1.13127e+05
## 792
            $767,244.44 5.88060e+04
```

```
## 793
          $2,697,472.04
                          2.12738e+05
## 794
          $1,867,517.34
                          1.77640e+05
                          5.80010e+04
## 795
            $763,538.93
## 796
          $1,591,405.36
                          1.30953e+05
## 797
          $1,751,698.10
                          1.08130e+05
## 798
            $396,253.75
                          1.09980e+04
## 799
          $1,153,515.92
                          9.25130e+04
## 800
            $200,856.45
                          1.15330e+04
## 801
            $580,230.27
                          3.28080e+04
## 802
          $1,415,820.48
                          1.42438e+05
## 803
            $886,641.23
                          5.27040e+04
## 804
            $382,524.49
                          1.84460e+04
## 805
            $507,011.33
                          3.07970e+04
            $889,120.27
## 806
                          7.25400e+04
## 807
            $535,564.99
                          4.95380e+04
## 808
            $387,146.44
                          1.76180e+04
## 809
          $1,464,620.10
                          1.01472e+05
## 810
            $763,400.71
                          6.92420e+04
## 811
            $605,453.27
                          6.31410e+04
## 812
            $997,305.25
                          7.60370e+04
## 813
            $277,888.44
                          1.08340e+04
## 814
            $762,659.97
                          4.99520e+04
## 815
                          4.48120e+04
            $733,747.18
## 816
                          5.40450e+04
            $774,581.64
## 817
          $1,485,977.43
                          1.12562e+05
## 818
            $577,232.30
                          3.11620e+04
## 819
            $816,945.03
                          5.31260e+04
## 820
          $1,545,193.10
                          1.35519e+05
## 821
            $712,762.95
                          3.76440e+04
## 823
            $603,455.71
                          5.41060e+04
## 824
          $1,357,239.38
                          1.25027e+05
## 825
            $937,098.80
                          7.31050e+04
## 826
            $934,038.73
                          4.37440e+04
## 827
            $719,650.26
                          5.92840e+04
## 828
          $1,140,059.70
                          4.60950e+04
## 829
          $1,363,860.00
                          8.50570e+04
## 830
            $560,381.51
                          2.47890e+04
## 831
            $256,283.29
                          1.38890e+04
## 832
            $380,457.62
                          4.66870e+04
## 833
            $561,589.37
                          3.78380e+04
## 834
            $562,654.91
                          3.43170e+04
## 835
            $637,427.56
                          4.91490e+04
## 836
            $426,693.44
                          2.59130e+04
## 837
            $887,968.87
                          9.08060e+04
## 838
            $342,407.51
                          1.19520e+04
            $626,254.81
## 839
                          6.33050e+04
## 840
            $651,750.70
                          3.16240e+04
## 841
            $552,638.49
                          3.04150e+04
## 842
            $512,262.22
                          2.39620e+04
## 843
          $1,445,565.88
                          8.68600e+04
          $1,128,469.49
## 844
                          7.01500e+04
## 845
            $596,327.95
                          4.88950e+04
## 846
            $368,036.88
                          3.09380e+04
## 847
          $2,566,258.84
                          2.82761e+05
```

```
## 848
          $2,505,399.87
                          2.91079e+05
                          7.39820e+04
## 849
          $1,076,465.41
          $1,289,773.80
## 850
                          9.96920e+04
## 851
          $1,051,586.60
                          9.76790e+04
## 852
            $322,172.62
                          1.78500e+04
            $555,832.76
## 853
                          3.20370e+04
## 854
            $634,155.87
                          4.63500e+04
## 855
            $974,035.73
                          2.80940e+04
## 856
            $494,385.89
                          5.59000e+04
## 857
          $1,919,725.40
                          1.18229e+05
## 858
            $479,869.60
                          2.86950e+04
## 859
            $905,786.53
                          6.51560e+04
##
  860
        $999,999,999.99 -1.00000e+00
##
  861
          $1,856,640.33
                          1.77308e+05
          $1,234,299.93
## 862
                          1.30212e+05
## 863
            $335,509.34
                          1.18140e+04
## 864
            $614,755.07
                          4.01610e+04
## 865
            $778,797.28
                          1.36560e+04
## 866
            $327,578.76
                          8.06800e+03
## 867
          $1,054,973.83
                          9.31570e+04
## 868
          $1,064,104.41
                          7.38220e+04
## 869
          $2,352,717.09
                          1.99803e+05
## 870
            $828,723.83
                          6.55900e+04
## 871
          $1,865,086.41
                          1.49686e+05
## 872
            $617,417.23
                          4.14630e+04
## 873
          $1,033,513.91
                          1.26670e+05
## 874
            $990,907.73
                          7.05120e+04
## 875
            $212,081.15
                          1.64590e+04
## 876
          $1,617,964.23
                          1.21595e+05
## 877
            $353,123.77
                          1.74600e+04
## 878
          $2,034,287.67
                          2.02634e+05
## 879
            $990,872.19
                          5.85190e+04
## 880
            $520,202.01
                          4.54340e+04
## 881
            $539,848.72
                          2.19660e+04
## 882
          $1,090,207.81
                          4.50140e+04
## 883
            $574,417.17
                          3.45590e+04
## 884
            $581,886.96
                          7.01630e+04
## 885
            $967,947.41
                          8.62510e+04
## 886
            $378,776.50
                          3.16850e+04
## 887
            $578,808.90
                          3.03510e+04
## 888
            $488,759.89
                          3.98110e+04
## 889
            $694,019.36
                          5.93270e+04
          $1,669,598.39
## 890
                          1.58582e+05
## 891
          $2,739,799.75
                          3.28475e+05
## 892
          $1,535,076.48
                          1.30739e+05
## 893
            $400,040.38
                          1.96320e+04
## 894
            $831,435.99
                          4.78720e+04
## 895
            $818,251.30
                          5.72040e+04
## 896
            $735,887.62
                          7.73760e+04
## 897
          $2,267,704.81
                          1.61478e+05
##
  898
            $930,493.80
                          7.05390e+04
## 899
          $1,118,552.78
                          7.95490e+04
          $3,087,765.29
## 900
                          3.48010e+05
## 901
            $921,787.14 7.23780e+04
```

```
## 902
          $1,026,755.25
                          1.42911e+05
## 903
                          2.75100e+04
            $473,037.75
## 905
          $1,233,164.84
                          1.46006e+05
## 906
            $773,514.47
                          6.65390e+04
## 907
          $1,187,230.92
                          8.92660e+04
          $1,030,322.47
## 908
                          6.11970e+04
## 909
            $702,231.32
                          6.58740e+04
          $2,314,839.71
## 910
                          1.98935e+05
## 911
          $1,848,954.43
                          1.96918e+05
## 912
          $1,034,119.38
                          7.14500e+04
## 913
            $906,922.11
                          1.10081e+05
## 914
                          2.38800e+04
            $365,705.99
## 915
            $857,075.10
                          8.76540e+04
## 916
            $487,219.68
                          5.56450e+04
## 917
          $1,234,573.50
                          1.07081e+05
## 918
          $1,054,855.48
                          9.94780e+04
## 919
          $1,562,695.23
                          1.42342e+05
## 920
            $382,213.48
                          1.72820e+04
## 921
            $538,245.56
                          6.44490e+04
## 922
            $959,512.86
                          6.65340e+04
## 923
          $1,721,688.93
                          3.00000e+00
## 924
            $441,896.67
                          1.05400e+04
## 925
            $800,546.56
                          4.79200e+04
## 926
            $690,068.00
                          4.28740e+04
## 927
            $583,585.25
                          3.10250e+04
## 928
          $1,378,518.77
                          1.30901e+05
## 929
          $2,809,880.78
                          2.76635e+05
## 930
          $1,944,096.79
                          1.40997e+05
## 931
            $509,608.35
                          3.72510e+04
## 932
          $1,028,516.38
                          5.48060e+04
## 933
            $920,003.77
                          7.51060e+04
## 934
          $1,070,434.20
                          5.72030e+04
## 935
            $207,568.19
                          8.57700e+03
## 936
            $644,717.84
                          3.98680e+04
## 937
          $1,163,363.52
                          7.25210e+04
## 938
          $1,462,017.50
                          1.38081e+05
## 939
            $604,559.78
                          3.68050e+04
## 940
          $1,586,465.45
                          9.96620e+04
## 941
            $781,925.84
                          5.26220e+04
## 942
          $1,037,061.25
                          1.12068e+05
## 943
            $953,723.79
                          1.05511e+05
## 944
            $727,183.94
                          6.74910e+04
## 945
          $2,551,100.85
                          2.58375e+05
## 946
            $255,505.12
                          1.97990e+04
## 947
          $1,166,164.35
                          7.16120e+04
## 948
            $617,627.89
                          2.37130e+04
## 949
            $522,600.84
                          2.39520e+04
## 950
            $534,540.35
                          4.68200e+04
## 951
            $138,384.28
                          4.65700e+03
## 952
            $623,954.86
                          6.86010e+04
          $1,131,393.54
## 953
                          7.97800e+04
## 954
          $1,173,364.95
                          6.46630e+04
## 955
            $253,405.52
                          1.43350e+04
## 956
            $660,942.21
                          2.26150e+04
```

```
## 957
            $917,836.65
                          6.54720e+04
## 958
          $1,073,425.45
                          6.83480e+04
## 959
            $992,279.23
                          7.99360e+04
## 960
            $621,088.82
                          4.74180e+04
## 961
             $84,701.55
                          6.63800e+03
## 962
            $492,912.45
                          1.71090e+04
## 963
            $395,057.64
                          1.67280e+04
## 964
          $1,124,291.56
                          6.60030e+04
## 965
            $763,619.53
                          6.50830e+04
## 966
            $686,172.35
                          6.02100e+04
## 967
          $1,275,987.70
                          1.20190e+05
## 968
          $1,509,833.10
                          1.07892e+05
## 969
            $456,901.10
                          3.85040e+04
         -$1,782,195.35
## 970
                          1.57036e+05
## 971
          $2,564,026.93
                          2.06330e+05
## 972
          $2,479,030.98
                          2.28220e+05
## 973
            $622,861.80
                          4.72040e+04
## 974
            $186,336.08
                          1.16290e+04
## 975
          $1,691,208.84
                          1.73522e+05
## 976
            $748,783.78
                          5.38400e+04
## 977
            $982,146.53
                          1.13611e+05
## 978
          $1,650,719.90
                          1.44377e+05
## 979
                          2.58688e+05
          $2,254,142.40
## 980
          $1,705,119.04
                          1.29757e+05
## 981
          $1,255,523.09
                          9.36670e+04
## 982
          $1,230,923.22
                          8.09230e+04
## 983
          $1,769,120.60
                          1.57707e+05
## 984
          $1,401,703.77
                          9.20020e+04
## 985
          $1,099,614.74
                          9.86000e+04
## 986
          $2,156,426.27
                          1.93126e+05
## 987
          $1,152,289.26
                          8.31230e+04
## 988
            $564,010.20
                          4.45500e+04
## 989
            $226,345.69
                          7.54600e+03
## 990
            $257,058.48
                          2.30570e+04
## 991
          $1,888,357.52
                          1.94851e+05
          $1,003,702.37
## 992
                          4.96180e+04
## 993
            $204,375.13
                          1.23510e+04
## 994
            $380,474.77
                          1.38030e+04
## 995
            $869,462.66
                          7.88850e+04
## 996
          $1,295,028.41
                          6.90000e+04
## 997
            $562,506.22
                          5.43170e+04
## 998
            $357,714.91
                          2.05680e+04
## 999
            $778,431.09
                          7.14990e+04
## 1000
            $718,721.38
                          3.21860e+04
## 1001
            $941,807.18
                          8.44570e+04
duplicates2 <- filter(n_data, duplicated(n_data$name, fromLast = TRUE))</pre>
duplicates2
     row_num
                  name population
                                     advertising sales
## 1
              Waterham
                            335942 $1,235,182.39 102985
          48
## 2
         238 Bridgeton
                            111530
                                     $253,405.52
                                                  14335
## 3
         821
                            305858
                                      $712,762.95
                                                   37644
                                     $473,037.75
```

27510

175196

903

## 4

```
n_data$advertising <- str_replace(n_data$advertising,"\\$","")</pre>
n_data$advertising <- str_replace_all(n_data$advertising,",","")</pre>
n_data$advertising <- as.numeric(n_data$advertising)</pre>
n_data$advertising <- abs(n_data$advertising)</pre>
# and getting output for the first 10 lines of the dataset of advertising column
head(n_data$advertising,10)
   [1] 1467743.4 1426770.1 1147775.3 1114590.9 888153.3 400624.4 3209478.6
## [8] 1632156.5 1445273.8 495314.5
# froming to positive values.
# and getting output for the first 10 lines of the dataset
head(n_data, 10)
##
                     name population advertising sales
      row_num
## 1
            1 Fairhampton
                              415149
                                       1467743.4 141335
                              505932
                                       1426770.1 96672
## 2
            2
                  Ashwich
           3 Rockcaster
## 3
                              406564
                                      1147775.3 56084
## 4
            4 Hogstead
                              494200 1114590.9 43865
## 5
           5 Snowgrad
                              323581 888153.3 66033
           6 Sweetport
                                       400624.4 16066
## 6
                              309610
           7 Passcaster
## 7
                              780917
                                       3209478.6 327318
                              404280
                                       1632156.5 174979
## 8
           8 Parkdale
## 9
           9
                 Hogbury
                              499986 1445273.8 105101
           11 Hallcester
## 11
                              177261
                                       495314.5 49104
n_data$sales <- abs(n_data$sales)</pre>
n_data$population <- str_replace(n_data$population, "two hundred and fifty-seven thousand, three hundred
n_data$population <- as.numeric(n_data$population)</pre>
n_data$population <- abs(n_data$population)</pre>
for (i in 1:nrow(n_data)){
  if (is.na(n_data$population[i]) | is.na(n_data$advertising[i]) | is.na(n_data$sales[i])) {
  }
  else if ((n_data$population[i]<10000) | (n_data$advertising[i]<20000) | (n_data$sales[i]<100))
    n_data <- n_data[-i, ]</pre>
}
view(n_data)
for (i in 1:nrow(n_data)){
  if (is.na(n_data$population[i]) | is.na(n_data$advertising[i]) | is.na(n_data$sales[i])) {
    next
 }
```

```
else if ((n_data$population[i]>10000000) | (n_data$advertising[i]>10000000) | (n_data$sales[i]>1000000
{
    n_data <- n_data[-i, ]
}
}

round_data <- function(x) {
    ifelse (x >= 1, round(x, 2), signif(x, 3))
}

n_data$population <- round_data(n_data$population)
n_data$advertising <- round_data(n_data$advertising)
n_data$sales <- round_data(n_data$sales)
# getting output for the first 10 lines of the dataset
head(n_data,10)</pre>
```

```
name population advertising sales
##
     row_num
## 1
       1 Fairhampton
                         415149 1467743.4 141335
## 2
         2 Ashwich
                         505932 1426770.1 96672
         3 Rockcaster
                        406564 1147775.3 56084
## 3
                      494200 1114590.9 43865
         4 Hogstead
## 4
                      323581
                               888153.3 66033
         5
## 5
            Snowgrad
         6 Sweetport
## 6
                       309610 400624.4 16066
## 7
         7 Passcaster
                        780917 3209478.6 327318
         8
                        404280 1632156.5 174979
## 8
            Parkdale
## 9
         9
              Hogbury
                        499986 1445273.8 105101
         11 Hallcester
## 11
                         177261 495314.5 49104
```

5. Create new variables in your tibble, representing the: • percentage of a city's population who bought the gadget (call the variable sales pct) • advertising expenditure per person in a city (call the variable adv exp pp)Output the first 10 rows of your data. Also, describe what type of variables these are ("Quantitative Discrete", "Quantitative Continuous", "Categorical Nominal", "Categorical Ordinal").

```
##
       row_num
                        name population advertising sales sales_pct adv_exp_pp
## 1
                 Fairhampton
                                415149 1467743.39 141335
                                                           34.040
                                                                      3.540
## 2
            2
                     Ashwich
                                505932 1426770.06 96672
                                                           19.110
                                                                      2.820
## 3
            3
                 Rockcaster
                                406564 1147775.28 56084 13.790
                                                                      2.820
            4
## 4
                    Hogstead
                                494200 1114590.85 43865
                                                           8.880
                                                                      2.260
```

##		5	Snowgrad	323581	888153.32	66033	20.410	2.740
	6	6	Sweetport	309610	400624.41	16066	5.190	1.290
	7	7	Passcaster	780917	3209478.58		41.910	4.110
	8	8	Parkdale	404280	1632156.47		43.280	4.040
	9	9	Hogbury	499986	1445273.80		21.020	2.890
	11	11	Hallcester	177261	495314.49	49104	27.700	2.790
	12	12	Farmhampton	274909	475015.07	16465	5.990	1.730
	13	13	Norness	233164	687985.16	53140	22.790	2.950
	14	14	Redton	776269	2180323.59		28.680	2.810
	15	15	Princemouth	189518	308732.63	17092	9.020	1.630
	16	16	Wheelfield	315034	464580.66	27616	8.770	1.470
	17	17	Millton	371581	1036137.83	73477	19.770	2.790
	18	18	Rivermouth	413381	1115586.09	85092	20.580	2.700
	19	19	Bannview	573688	1491523.60	94934	16.550	2.600
	20	20	Hapness	363866	838704.98	29549	8.120	2.300
	21	21	Princeham	215177	455307.94	36847	17.120	2.120
	22	22	Summerwich	100037	354042.75	42246	42.230	3.540
	23	23	Manport	259603	763424.95	53689	20.680	2.940
	24	24	Bellbury	367403	966453.06	60121	16.360	2.630
	25	25	Dodgedol	388837	835636.06	50166	12.900	2.150
	26	26	${ t Middleport}$	322608	924716.31	76289	23.650	2.870
	27	27	Northness	956721	2004539.87		24.830	2.100
	28	28	Fairwich	686595	2874699.08		40.490	4.190
	29	29	Auley	376830	1260230.51	109764	29.130	3.340
##	30	30	Southhampton	460166	1009919.92	61076	13.270	2.190
##	31	31	Frostburgh	80475	240646.81	16095	20.000	2.990
##	32	32	Winport	421769	699237.35	26184	6.210	1.660
##	33	33	Sayworth	250051	513422.79	36568	14.620	2.050
##	34	34	Sageworth	244395	501025.95	29924	12.240	2.050
##	35	35	Duckby	583253	1432631.57	90556	15.530	2.460
##	36	36	Farmgrad	68464	193651.00	14727	21.510	2.830
	37	37	Saltburgh	208596	486698.13	34981	16.770	2.330
##	38	38	Fishham	170170	456868.47	26988	15.860	2.680
##	39	39	Postport	657029	2762074.70	325977	49.610	4.200
##	40	40	${\tt Hallhampton}$	143101	386215.14	24733	17.280	2.700
##	41	41	Southingcaster	282711	713149.09	40313	14.260	2.520
##	42	42	Emermouth	607138	2936399.33	385542	63.500	4.840
##	43	43	Hollowham	296841	601570.11	31339	10.560	2.030
##	44	44	${ t Chatpool}$	336205	317882.02	5261	1.560	0.946
##	45	45	Starwich	398742	983985.36	73751	18.500	2.470
##	46	46	Medbrough	839367	1445118.39	49333	5.880	1.720
##	47	47	Kingfield	747382	960430.48	34804	4.660	1.290
##	48	48	Waterham	335942	1235182.39	102985	30.660	3.680
##	50	50	Capcester	365826	1138314.11	83236	22.750	3.110
##	51	51	Winburg	268927	884591.48	59603	22.160	3.290
##	52	52	Hardgrad	310844	496268.18	24351	7.830	1.600
##	53	53	Dodgeburg	623923	1813821.03	123212	19.750	2.910
##	54	54	Stoneborough	506728	1490791.46	90710	17.900	2.940
##	55	55	Gilview	429457	2090387.15	245290	57.120	4.870
##	56	56	Cruxstead	482903	1205837.71	61138	12.660	2.500
##	57	57	Mannorworth	468637	1566265.86	121225	25.870	3.340
##	58	58	Bayport	259740	516053.01	27730	10.680	1.990
##	59	59	Wheelton	467381	1480175.20		32.830	3.170
##		60	Angerhampton	394141	1006376.01	83922	21.290	2.550

##	61	61	Hardby	222230	392264.25	19090	8.590	1.770
	62	62	Seastead	547584	1557807.37	76301	13.930	2.840
##	63	63	Beachton	302475	642338.72	25864	8.550	2.120
##	64	64	Bridgedol	197018	256187.38	10575	5.370	1.300
##	65	65	Ashham	505556	1105314.82	46435	9.180	2.190
##	66	66	Foxgrad	360878	1301084.68	99092	27.460	3.610
##	67	67	Stonebrough	321348	911375.65	80039	24.910	2.840
##	68	68	Probrough	170219	648283.57	53750	31.580	3.810
##	69	69	Princeland	181372	524141.07	37887	20.890	2.890
##	70	70	Auhampton	535447	1454896.40	104369	19.490	2.720
	71	71	Appletown	241117	339083.31	9283	3.850	1.410
	72	72	Hogtown	261335	704832.75	53718	20.560	2.700
	73	73	Julley	246213	479153.82	20537	8.340	1.950
	74	74	Duckworth	154055	449800.73	32393	21.030	2.920
	75	75	Kettletown	206810	500766.61	30020	14.520	2.420
##	76	76	Julbury	541159	1078683.92	34859	6.440	1.990
##	77	77	Kingdol	648041	1052267.37	72705	11.220	1.620
##	78	78	Castercester	530767	1829768.48	148197	27.920	3.450
##	79	79	Sweetness	370445	1118681.48	92347	24.930	3.020
##	80	80	Valenside	145025	506943.18	40962	28.240	3.500
	81	81	Massbury	202783	596360.00	48090	23.720	2.940
	82	82	Roseland	457396	1291466.99	113453	24.800	2.820
	83	83	Weirport	404347	1064722.98	69900	17.290	2.630
##	84	84	Sandville	214253	541597.47	31598	14.750	2.530
##	85	85	Fauxness	357950	1013278.00	80067	22.370	2.830
##	86	86	Beachburg	530981	1780093.65	196313	36.970	3.350
##	87	87	Costsgrad	350346	1407202.97		45.130	4.020
##	88	88	Faygrad	864362	2390029.31	214233	24.790	2.770
##	89	89	Aelhampton	183960	384054.89	25550	13.890	2.090
##	90	90	Sandburg	540826	1179382.75	72636	13.430	2.180
##	91	91	Lunburg	443750	1588056.55	141974	31.990	3.580
##	92	92	Norbrough	357886	1137227.68	83122	23.230	3.180
##	93	93	Sugarbrough	68025	143016.27	8328	12.240	2.100
##	94	94	Norburg	348492	976203.74	66816	19.170	2.800
##	95	95	Postfield	352118	1109415.79	82248	23.360	3.150
##	96	96	Mannorley	297771	876349.90	66800	22.430	2.940
##		97	Hamley	222005	320563.62	16770	7.550	1.440
##		99	Gilside	298110	479829.52	27904	9.360	1.610
	100	100	Strongness	307922	1225078.20		42.670	3.980
	101	101	Skillley	709177	2326407.71		29.880	3.280
	102	102	Melham	101362	416870.63	45942	45.320	4.110
	103	103	Passview	229325	835439.88	75046	32.720	3.640
	104	104	Southingtown	640413	1337697.89	85937	13.420	2.090
##	105	105	Eastwich	442897	1318109.44	82914	18.720	2.980
##	106	106	Greendol	113958	324089.56	31066	27.260	2.840
##	107	107	${\tt Chathampton}$	344944	641791.28	35597	10.320	1.860
##	108	108	Greenstead	312906	1102684.16	92643	29.610	3.520
##	109	109	Massport	513036	1093758.81	71229	13.880	2.130
	110	110	Haptown	539546	1472576.03	91510	16.960	2.730
	111	111	Farmmouth	96572	233990.34	15023	15.560	2.420
	112	112	Dayside	281875	833434.82	50040	17.750	2.960
	113	113	Medborough	390884	1351722.17		38.050	3.460
	114	114	Lunaland	840271	1606353.28	52941	6.300	1.910
##	115	115	Parkness	396451	618028.08	29386	7.410	1.560

	116	116	Farmland	369795	1037112.74	55993	15.140	2.800
##	117	117	Kingview	109386	315904.30	24270	22.190	2.890
##	118	118	Angerford	332057	1076333.82		34.870	3.240
##	119	119	Sagebury	426592	926619.81	39355	9.230	2.170
##	120	120	Costspool	533348	930664.80	35804	6.710	1.740
##	121	121	Pineville	390545	580589.88	28268	7.240	1.490
##	122	122	Valenbury	649574	2193925.69	178660	27.500	3.380
##	123	123	Riverdale	1039360	2477630.15	172342	16.580	2.380
##	124	124	Greenborough	303434	769986.81	47114 26508	15.530	2.540
##	125	125	Auness	203540	443336.67		13.020	2.180
##	126	126	Princeport	591059	943479.78	32235 42460	5.450	1.600
##	127	127	Baydol	289462	617384.02		14.670	2.130
##	128	128	Princeview	189582	514682.25	48539	25.600	2.710
##	129	129	Applepool Parkwich	660936	1855899.00	133413	20.190	2.810
##	130	130		265604	616333.16	40476	15.240	2.320
##	131	131	Griffindol	594894	2951084.85		54.360	4.960
##	132 133	132 133	Lexingfield	358184	711088.91 752549.68	37052 39874	10.340 14.000	1.990 2.640
##	134	134	Mansley Kingburg	284761 242749	339975.52	11636	4.790	1.400
##	135	135	Lunpool	444221	1522794.27		26.550	3.430
##	136	136	Southfield	570992		116531	20.330	2.920
##	137	137	Tallton	196802	617658.27	41307	20.410	3.140
##	138	138	Watercester	607101	2178646.17		29.010	3.140
##	139	139	Norbury	518685	1575811.99	99988	19.280	3.040
##	140	140	Saltside	444884	1109460.50	60882	13.680	2.490
##	141	141	Cloudside	789282	1421369.68	72246	9.150	1.800
##	142	142	Manborough	142853	510045.33	43095	30.170	3.570
##	143	143	Valenstead	217112	708325.49	63446	29.220	3.260
##	144	144	Southby	246764	805502.20	76447	30.980	3.260
##	145	145	Richtown	219282	619503.31	51049	23.280	2.830
##	146	146	Fauxby	119825	297525.71	16775	14.000	2.480
##	147	147	Factdale	702403	2100704.92	132065	18.800	2.990
##	148	148	Gilbury	389749	1014567.47	52306	13.420	2.600
##	149	149	Pinemouth	456150	1604283.77	136836	30.000	3.520
##	150	150	Cloudton	168185	584668.01	54021	32.120	3.480
##	151	151	Waltburgh	588944	1840401.51	111657	18.960	3.120
##	152	152	Skilltown	391488	921740.06	46401	11.850	2.350
##	153	153	Jameshampton	429410	1237555.99	105626	24.600	2.880
##	154	154	Waterham	335942	1235182.39	102985	30.660	3.680
##	155	155	Frostview	142014	467449.03	29015	20.430	3.290
##	156	156	Wheelcaster	89023	255636.33	20570	23.110	2.870
##	157	157	Southingpool	119249	264617.02	9786	8.210	2.220
##	158	158	Postborough	319623	927922.32	74146	23.200	2.900
##	159	159	Lexinggrad	197692	325703.50	15847	8.020	1.650
##	160	160	Freefield	153836	267484.44	14866	9.660	1.740
##	161	161	Strongland	111524	294427.78	17373	15.580	2.640
##	162	162	Beachpool	452755	1049914.17	54701	12.080	2.320
##	163	163	Fishdol	310934	672459.01	42311	13.610	2.160
##	164	164	Fayworth	169568	456056.31	29212	17.230	2.690
##	165	165	Southingdale	197820	592349.39	51117	25.840	2.990
	166	166	Millburgh	325803	944933.60	70914	21.770	2.900
	167	167	Mannorfield	487544	1433520.72		23.760	2.940
	168	168	Aelcester	489843	825583.99	48349	9.870	1.690
##	169	169	Saygrad	164270	259036.38	14053	8.550	1.580

	170	170	Princedol	453809	764280.66	24957	5.500	1.680
##	171	171	Saycester	188820	614876.29	53288	28.220	3.260
##	172	172	Wingland	527982	1255200.28	81994	15.530	2.380
##	173	173	Sandby	429205	1226643.11		28.860	2.860
##	174	174	Postmouth	392968	1793207.11		51.280	4.560
##	175	175	Manstead	791069	2122500.13		18.590	2.680
##	176	176	Fishpool	1035529	2854832.29		22.760	2.760
##	177	177	Oakbrough	388167		122192	31.480	3.480
##	178	178	Saltborough	485002		186849	38.530	3.920
##	179	179	Sealey	449832	1913453.87		46.520	4.250
##	180	180	Duckcaster	490679	1035977.95	61896	12.610	2.110
##	181	181	Hosham	432925	1383008.32		24.520	3.190
##	182	182	Baydale	196164	599027.72	36935	18.830	3.050
##	183	183	Northley	484457	765326.31	38988	8.050	1.580
##	184	184	Fishdale	282136	379663.29	9789	3.470	1.350
##	185	185	Elmouth	301134	827652.59	61559	20.440	2.750
##	186	186	Parkford	299805	438455.87	16811	5.610	1.460
##	187	187	Hollowness	210144	818432.48	72898	34.690	3.890
##	188	188	Eaststead	372312	1257938.46		31.440	3.380
##	189	189	Springmouth	561360	1539721.26		18.000	2.740
##	190	190	Bridgeland	333870	558879.02	27653	8.280	1.670
##	191	191	Sageside	234964	853305.18	84120	35.800	3.630
##	192	192	Gilwich	161275	318006.78	13054	8.090	1.970
##	193	193	Sweetdol	281318	883752.04	81003	28.790	3.140
##	194	194	Highville	239747	633868.88	45753	19.080	2.640
##	195	195	Cloudmouth	150623	419333.76	25070	16.640	2.780
##	196	196	Beachworth	402253	895824.24	54214	13.480	2.230
##	197	197	Westley	412619	1486620.37		30.990	3.600
##	198	198	Fairville	339484	531895.98	19758	5.820	1.570
##	199	199	Augrad	144662	517258.22	46835	32.380	3.580
##	200	200	Hallbrough	257972	529683.27	33203	12.870	2.050
##	201	201	Backland	235690	617302.64	38439	16.310	2.620
##	202	202	Stonecaster	534253	1056597.77	46765	8.750	1.980
	203	203	Lunness	509267	1792774.30	155677	30.570	3.520
	204	204	Waterbury	449104	1091009.50	60131	13.390	2.430
##	205	205	Daytown	298113	1083988.80	89062	29.880	3.640
	206	206	Rosehampton	223998	564170.75	29985	13.390	2.520
	207	207	Foxville	292062	906722.59	81727	27.980	3.100
	208	208	Fishland	273625	710981.49	52875	19.320	2.600
	209	209	Fayview Pailville	134316 219651	354887.26	30882	22.990	2.640
	210	210			787483.20	81756	37.220	3.590
	211	211	Duckbrough	224498	387665.57	22283	9.930	1.730
	212	212	Redbrough Greenview	53795	97163.05	2798	5.200	1.810
	213	213	Farmborough	230718	494936.36	29217	12.660	2.150
	214	214	•	351765	1279772.78		34.320	3.640
	215	215	Princebrough	681035	1803710.35		16.070	2.650
	216	216 217	Queensburgh	31540	91403.62	6467	20.500	2.900
	217	217	Mansworth	119812	337761.23	18511	15.450	2.820
	218	218	Lunview	89204	272876.81	24227	27.160	3.060
	219	219 220	Saypool	445386	1007563.00	65850 45711	14.780	2.260
	220		Appleview	275347	753634.66 1406426.86	45711	16.600	2.740
	221	221 222	Readingfield	428114			28.070	3.290
	222		Starcester	572889	1521045.09		20.880	2.660
##	223	223	Luncester	529420	968423.09	56246	10.620	1.830

	224	224	Fishby	940911	4507065.51	595122	63.250	4.790
	225	225	Duckgrad	247355	996142.86	88763	35.880	4.030
##	226	226	Waltfield	332025	594149.01	27726	8.350	1.790
##	227	227	Saybury	443913	1023043.89	49884	11.240	2.300
##	228	228	Proville	201679	579580.38	44944	22.280	2.870
##	229	229	Tallpool	210057	597361.43	37334	17.770	2.840
##	230	230	Ashland	253408	789832.27	59399	23.440	3.120
##	231	231	Ashworth	122937	631774.11	101734	82.750	5.140
##	232	232	Prostead	258581	537438.79	31471	12.170	2.080
##	233	233	Pineham	521086	1495845.03	119801	22.990	2.870
##	234	234	Sandside	234858	671632.01	47733	20.320	2.860
##	235	235	Elness	484483	1878829.67	182773	37.730	3.880
##	236	236	Seafield	274031	995228.96	98853	36.070	3.630
##	237	237	Highside	402058	875647.70	48035	11.950	2.180
##	238	238	${ t Bridgeton}$	111530	253405.52	14335	12.850	2.270
##	240	240	Jamesburgh	544625	1516441.98	108285	19.880	2.780
##	241	241	Kettleworth	444402	1254659.44	88854	19.990	2.820
##	242	242	Parkcester	217440	402755.85	15270	7.020	1.850
##	243	243	Hamhampton	494101	1368686.60	118630	24.010	2.770
##	244	244	Applestead	274244	1004406.85	88035	32.100	3.660
##	245	245	Fairworth	171080	636399.83	46805	27.360	3.720
##	246	246	Queensgrad	326529	688166.28	35693	10.930	2.110
##	247	247	Caphampton	65638	153194.00	8712	13.270	2.330
##	248	248	Southdale	86570	330981.47	26315	30.400	3.820
##	249	249	Southingford	551335	1165577.84	80376	14.580	2.110
##	250	250	Sugarstead	171621	441281.45	25254	14.710	2.570
##	251	251	Parkcaster	869235	2924128.94	226144	26.020	3.360
##	252	252	Sugarcaster	423831	940876.94	43189	10.190	2.220
##	253	253	Strongmouth	274657	736442.76	50067	18.230	2.680
##	254	254	Eastcester	492339	2061813.81	191741	38.940	4.190
##	255	255	Mannorbrough	244517	532048.43	27835	11.380	2.180
##	256	256	Sagecaster	296093	965917.25	77929	26.320	3.260
##	257	257	Hamcester	199074	749511.05	70923	35.630	3.760
##	258	258	Hardham	359914	977878.19	63410	17.620	2.720
##	259	259	Chattown	206039	509334.28	28696	13.930	2.470
##	260	260	Lexingville	252131	935159.28	79812	31.650	3.710
##	261	261	Duckham	401506	1515971.60	138258	34.430	3.780
##	262	262	${\tt Mannormouth}$	688457	1734257.34	141205	20.510	2.520
##	263	263	Richmouth	390970	1065541.69	67666	17.310	2.730
##	264	264	Massburgh	680085	1863644.12	112540	16.550	2.740
##	265	265	Haphampton	311973	484241.41	15352	4.920	1.550
##	266	266	Passdale	381507	1191654.17	116222	30.460	3.120
##	267	267	Weirstead	792512	2610006.00	243563	30.730	3.290
##	268	268	Snowwich	223223	494330.73	33648	15.070	2.210
##	269	269	Prodale	657354	2442712.57	298759	45.450	3.720
##	270	270	Highworth	84796	213875.20	13009	15.340	2.520
##	271	271	Wheelborough	536490	2124163.36	249548	46.510	3.960
##	272	272	Foxton	293050	812220.77	64681	22.070	2.770
##	273	273	Medgrad	340026	735310.97	31575	9.290	2.160
##	274	274	Starford	230751	219651.82	2065	0.895	0.952
##	275	275	Southingfield	514259	918878.63	61766	12.010	1.790
##	276	276	Seaside	354462	1122541.15	83249	23.490	3.170
##	277	277	Postcaster	382409	768561.29	43082	11.270	2.010
##	278	278	Postley	603140	1839280.43	160242	26.570	3.050

	279	279	Dayland	55152	140393.85	5516	10.000	2.550
	280	280	Winburgh	386981	834486.86	41221	10.650	2.160
	281	281	Norport	228062	888689.09	84795	37.180	3.900
	282	282	Farmingpool	702362	1585163.22	58544	8.340	2.260
	283	283	Medside	363163	600329.29	26008	7.160	1.650
	284	284	Hapford	240981	954399.10	89826	37.280	3.960
	285	285	Angergrad	247183	427640.08	18677	7.560	1.730
	286	286	Southingmouth	358384	567938.99	31661	8.830	1.580
	287	287	Winterport	175720	521077.30	31231	17.770	2.970
	288	288	Farmingmouth	212393	522750.14	39822	18.750	2.460
	289	289	Faycaster	346472	935740.73	50658	14.620	2.700
	290	290	Highburg	196834	481564.18	26655	13.540	2.450
	291	291	Greengrad	59185	202171.18	19222	32.480	3.420
	292	292	Fishford	629719	1442247.16		17.030	2.290
	293	293	Hoscester	636356	625948.42	6234	0.980	0.984
	294	294	Richwich	715029	2134772.12		24.440	2.990
	295	295	Strongburgh	310477	989706.42	83571	26.920	3.190
	296	296	Hapton	511902	812494.87	38852	7.590	1.590
	297	297	Bridgehampton	115196	424238.31	32676	28.370	3.680
##	298	298	Holtsview	142418	398182.07	24548	17.240	2.800
##	299	299	Princewich	694865	1301566.38	72114	10.380	1.870
	300	300	Summerborough	192303	586858.12	50817	26.430	3.050
	302	302	Northpool	428003	1224446.85	76519	17.880	2.860
##	303	303	Casterland	206166	531961.24	27989	13.580	2.580
##	304	304	Passburg	362487	829034.05	58956	16.260	2.290
##	305	305	Princecaster	438913	1425202.74	87508	19.940	3.250
##	306	306	Hosworth	529011	1536990.36	133918	25.310	2.910
##	307	307	Redside	351053	1200025.73	102953	29.330	3.420
##	308	308	Greenpool	125299	380313.30	25495	20.350	3.040
##	309	309	Fortpool	509477	1489600.43	117055	22.980	2.920
##	310	310	Postbury	254066	543599.56	31025	12.210	2.140
##	311	311	Hapfield	126747	307652.03	19563	15.430	2.430
##	312	312	Ashview	159430	270348.35	5970	3.740	1.700
##	313	313	Starcaster	372820	1299940.56	118690	31.840	3.490
##	314	314	Snowstead	651425	2267796.86	180782	27.750	3.480
##	315	315	Frosttown	458482	1051290.48	62835	13.710	2.290
##	316	316	Aeldol	143434	362790.84	20422	14.240	2.530
##	317	317	Farmingtown	625745	2392037.21	248577	39.720	3.820
##	318	318	Stonepool	235810	693764.23	56007	23.750	2.940
##	319	319	Waltgrad	615136	1623474.75	131377	21.360	2.640
##	320	320	Norborough	346955	1158347.90	86011	24.790	3.340
##	321	321	Capland	97237	319611.39	32702	33.630	3.290
##	322	322	Capside	540523	873753.26	39334	7.280	1.620
##	323	323	Rockgrad	708125	2139527.13	180015	25.420	3.020
##	324	324	Queenshampton	426346	2270174.27	318068	74.600	5.320
##	325	325	Northview	283076	965951.60	92354	32.630	3.410
##	326	326	Bellcaster	481817	1894967.87	209390	43.460	3.930
##	327	327	Waterness	92837	148166.07	6093	6.560	1.600
##	328	328	Northwich	270136	850998.17	67496	24.990	3.150
##	329	329	Angerbrough	367909	1093874.80	100024	27.190	2.970
##	330	330	Springbrough	796302	2890538.65	364406	45.760	3.630
##	331	331	Jamescaster	149279	497943.41	41993	28.130	3.340
##	332	332	Sugarmouth	151409	557179.79	42717	28.210	3.680
##	333	333	Rosecester	214577	810192.34	80968	37.730	3.780

##	334	334	Cruxside	358256	1325722.28		39.750	3.700
##	335	335	Rockwich	378579	789219.03	37867	10.000	2.080
##	336	336	Mayville	221090	1087580.37	124022	56.100	4.920
##	337	337	Massborough	227653	560224.04	39681	17.430	2.460
##	338	338	Holtsham	376702	1131191.11	92797	24.630	3.000
##	339	339	Wheelford	277472	1165320.63		36.900	4.200
##	340	340	Jameston	518296	1560209.78		24.940	3.010
##	341	341	Queensford	214368	333318.85	10045	4.690	1.550
##	342	342	Fauxfield	427566	581805.70	23870	5.580	1.360
##	343	343	Winville	274854	961230.38	80334	29.230	3.500
##	344	344	Westhampton	345118	986355.98	82569	23.920	2.860
##	345	345	Riverville	647376	2676793.96		39.220	4.130
##	346	346	Cloudcaster	504895	1359799.59	89964	17.820	2.690
##	347	347	Melbury	462241	1100985.83	64597	13.970	2.380
##	348	348	Rockville	803169	2209710.56		19.910	2.750
##	349	349	Hollowfield	594140	1834347.04		23.660	3.090
##	350	350	Proton	382748	1480975.23		31.510	3.870
##	351	351	Manville	620529	1659613.65		18.940	2.670
##	352	352	Elcester	409605	710753.59	27971	6.830	1.740
##	353	353	Eltown	349668	408938.18	10988	3.140	1.170
	354	354	Pinestead	257178	452694.45	21306	8.280	1.760
	355	355	Faircaster	265007	813440.09	64741	24.430	3.070
##	356	356	Hallford	288216	506886.18	19111	6.630	1.760
	357	357	Valenford	386746	805447.47	61654	15.940	2.080
##	358	358	Westview	528453	1578704.20	135531	25.650	2.990
##	359	359	Chatport	433279	1223558.66	96074	22.170	2.820
	360	360	Chatmouth	370879	1309520.31		28.230	3.530
	361	361	Auville	714306	1842653.04		19.220	2.580
	362	362	Casterwich	387207	350732.28	13962	3.610	0.906
	363	363	Roseville	635555	1749816.46		16.270	2.750
	364	364	Sweetwich	215530	339986.92	16507	7.660	1.580
	365	365	Walttown	166822	476219.30	35065	21.020	2.850
##	366	366	Roseview	411127	832657.96	45521	11.070	2.030
##	367	367	Bannness	347969	1197158.60		35.280	3.440
##	368	368	Waltwich	706391	2781815.92		37.260	3.940
##	369	369	Waltby	667596	1228454.51	47988	7.190	1.840
	370	370	Backdol	273572	852253.74	66692	24.380	3.120
	371	371	Cruxton	240894	690126.50	62974	26.140	2.860
	372	372	Rockhampton	314303	491919.89	21349	6.790	1.570
	373	373	Hostown	439322	1518514.38		30.940	3.460
	374	374	Westdale	345661	526389.60	22324	6.460	1.520
	375	375	Stardale	121696	219405.89	9277	7.620	1.800
	376	376 277	Fortness	762380	2801942.86 756343.57		32.010	3.680
	377	377 279	Chatton	246453		44827	18.190	3.070
	378	378 370	Kettleville	289767	967016.16	83858	28.940	3.340
	379	379	Rosecaster	165223	705747.22	63145	38.220	4.270
	380	380 382	Factburgh	345251	1056933.07	90743 97607	26.280 47.450	3.060
	382	382 383	Lunhampton	205697 486480	845250.06		47.450	4.110
	383	383 384	Saytown	486480	553654.28	30279	6.220	1.140
	384	384 385	Cloudborough	440427	748416.62	27959	6.350	1.700
	385		Reddale	407791 557183	1109082.55	70298	17.240	2.720
	386	386 387	Sugarworth	557183 107544	977192.78	54816	9.840	1.750
	387	387	Holtsgrad	107544	177236.32	5325	4.950	1.650
##	388	388	Emerpool	511620	1069397.13	68392	13.370	2.090

	389	389	Kingside	319661	799558.43	48395	15.140	2.500
	390	390	Cruxfield	400004	1470702.22		39.960	3.680
##	391	391	Tallcaster	156395	503460.67	41209	26.350	3.220
##	392	392	Kettleland	539727	1510895.93	101396	18.790	2.800
##	393	393	Sageley	302007	816711.74	58338	19.320	2.700
##	394	394	${\tt Griffinhampton}$	142709	498454.78	42201	29.570	3.490
##	396	396	Ashport	265210	652690.87	48995	18.470	2.460
##	397	397	Gilness	330189	474376.77	23046	6.980	1.440
##	398	398	Hapdol	637300	1938214.24		23.090	3.040
##	399	399	Princeside	182120	530277.26	42233	23.190	2.910
	400	400	Snowview	371843	971573.29	72621	19.530	2.610
	401	401	Gilworth	347097	1421658.72		49.880	4.100
	402	402	Northmouth	448132	1766571.97		34.010	3.940
	403	403	Proness	464610	1217258.34	87831	18.900	2.620
	404	404	Appleburgh	473222		100590	21.260	2.930
	405	405	Griffinmouth	524426	1990989.03		35.260	3.800
##	406	406	Fortgrad	189869	442339.76	24118	12.700	2.330
	407	407	Pineford	351317	1383695.75		43.570	3.940
##	408	408	Factley	96280	367820.87	34771	36.110	3.820
##	409	409	Westham	426373	1581959.51		36.010	3.710
##	410	410	Medburg	170147	384593.89	18268	10.740	2.260
##	411	411	Kettledale	316166	1164808.80		35.350	3.680
##	412	412	Maybrough	771236	1397059.16	59902	7.770	1.810
##	413	413	Jamesgrad	194371	407064.08	23745	12.220	2.090
	414	414	Postside	391877	711274.79	22878	5.840	1.820
	415	415	Skillgrad	114237	236950.96	11214	9.820	2.070
	416	416	Lexingburg	198617	497524.54	40242	20.260	2.500
	417	417	Readingdale	562522	1299446.73	68197	12.120	2.310
	418	418	Queensworth	350666	1533939.50		58.280	4.370
	419	419	Backborough	272990	581498.02	35856	13.130	2.130
	420	420	Jamestown	109987	315532.96	26538	24.130	2.870
	421	421	Valenfield	144499	475961.05	43925	30.400	3.290
	422	422	Tallland	289293	876163.14	63161	21.830	3.030
	423	423	Saltstead	191116	431028.67	21156	11.070	2.260
	424	424	Hollowtown	368098	1186971.64		31.170	3.220
	425	425	Lexingbrough	92182	155736.76	4979	5.400	1.690
	426	426	Belldol	352020	746053.59	34812	9.890	2.120
	427	427	Weirland	457881	1305170.36	98374	21.480	2.850
	428	428	Lawstead	546229	1555455.84	86841	15.900	2.850
	429	429	Summerton	612309	1737113.92		19.390	2.840
	430	430	Lungrad	412554	1197968.31	83915	20.340	2.900
	431	431	Freeworth	541025	1577105.83		19.550	2.920
	432	432	Parkburg	666822	2552272.63		35.510	3.830
	433	433	Costsville	602502	2327523.75		41.980	3.860
	434	434	Melby	351321	770163.65	38308	10.900	2.190
	435	435	Millville	466425	1442637.69	97814	20.970	3.090
	436	436	Mannorburgh Middleland	191853	595014.99	44260	23.070	3.100
	437	437		222362	605205.29		16.200	2.720
	438	438	Middlewich	604701	1739877.63		21.520	2.880
	439	439	Auby	431127	1589509.63		29.670	3.690
	440	440	Fairport	652790	1763951.02		24.120	2.700
	441	441	Angerpool	391839	1377742.42		28.310	3.520
	442	442	Farmingley	423560	1007540.72	61420	14.500	2.380
##	443	443	Factness	265679	346119.79	12957	4.880	1.300

##	444	444	Skillton	425267	1187020.24	79245	18.630	2.790
##	445	445	$\tt Oakport$	47358	172584.30	16594	35.040	3.640
##	446	446	Redford	239924	497626.11	39458	16.450	2.070
##	447	447	Starness	747513	2793891.79	290810	38.900	3.740
##	448	448	Skillcaster	19544	48345.77	2090	10.690	2.470
##	449	449	Medhampton	302095	807425.99	58978	19.520	2.670
##	450	450	Queenswich	272679	790559.24	79934	29.310	2.900
##	451	451	Sweetton	302523	969077.38	89605	29.620	3.200
##	452	452	Redfield	231038	757563.67	63986	27.700	3.280
##	453	453	Fairside	163477	449961.37	32660	19.980	2.750
##	454	454	Luntown	492334	1883521.41		39.620	3.830
##	455	455	Bellgrad	474754	1308287.30		22.160	2.760
##	456	456	Rosedale	691108	2320342.56		27.870	3.360
##	457	457	Valenham	488310	1475434.69	116980	23.960	3.020
##	458	458	Bridgedale	375816	1086502.72	78182	20.800	2.890
##	459	459	Holtshampton	213194	379262.62	20225	9.490	1.780
##	460	460	Kingham	171120	372919.87	22987	13.430	2.180
##	461	461	Clouddale	411936	1187571.59	83097	20.170	2.880
##	462	462	Kingmouth	381838	1150777.99	103075	26.990	3.010
##	463	463	Sugarborough	317228	1405024.00	163516	51.550	4.430
##	464	464	Saltmouth	136033	384956.67	24455	17.980	2.830
##	465	465	Masswich	280564	834511.71	60154	21.440	2.970
##	466	466	Summerbury	337958	789673.65	58494	17.310	2.340
##	467	467	Weirborough	380303	1525320.04		42.670	4.010
##	468	468	Masston	146371	384382.41	19313	13.190	2.630
##	469	469	Farmcaster	235331	758153.24	62280	26.460	3.220
##	470	470	Jamesley	396068	1713000.25		39.080	4.330
##	471	471	Weirhampton	666685	2451163.96		35.840	3.680
	472	472	Valentown	195386	833635.58	74991	38.380	4.270
	473	473	Stardol	680529	1877149.47		19.150	2.760
	474	474	Sagefield	201878	573510.97	37479	18.570	2.840
	475	475	Northside	150133	421482.47	28602	19.050	2.810
	476	476	Factgrad	574234	1558112.75	103808	18.080	2.710
	477	477	Eastworth	305655	724841.69	57967	18.960	2.370
	478	478	Capport	443794	1205886.18	93603	21.090	2.720
##	479	479	Beachborough	111954	272347.38	17600	15.720	2.430
	480	480	Southgrad	129311	382263.43	26515	20.500	2.960
	481	481	Hoswich	309712	1155177.16		38.810	3.730
	482	482	Northdale	251273	645977.86	44601	17.750	2.570
	483	483	Holtsstead	90147	242059.01	16904	18.750	2.690
	484	484	Hollowstead	221576	640557.32	39612	17.880	2.890
	485	485	Starby	535850	1318555.68	85981	16.050	2.460
	486	486	Snowport	284047	879205.67	66861	23.540	3.100
	487	487	Wingbrough	227365	689596.02	70059	30.810	3.030
	488	488	Skillpool	234435	472206.70	17268	7.370	2.010
	489	489	Hogburg	455103	1095843.31	70835	15.560	2.410
	490	490	Factbrough	256423	691857.12	43450	16.940	2.700
	491	491	Hardcester	241110	1007755.31		48.220	4.180
	492	492	Sandmouth	298276	470323.07	20024	6.710	1.580
	493	493	Mansdale	321908	1016341.29	93935	29.180	3.160
	494	494 495	Roseness	174795	650560.89	61216	35.020	3.720
	495	495 496	Northton	77820	216989.82	17262	22.180	2.790
	496	496 497	Valenton	760276 106657	1816935.07		15.180	2.390
##	497	497	Middleness	196657	445787.76	23075	11.730	2.270

	498	498	Waterville	487322	906830.87	49468	10.150	1.860
##	499	499	Winterley	172887	473413.00	39392	22.780	2.740
##	500	500	Hallgrad	361341	1301697.28	133740	37.010	3.600
##	501	501	Lunadol	206443	738628.07	67792	32.840	3.580
##	502	502	Sweetby	75344	106159.55	2715	3.600	1.410
##	503	503	Duckview	556351	2437313.87		47.420	4.380
##	505	505	Cruxgrad	122855	164744.12	5308	4.320	1.340
##	506	506	Sweetside	237482	519912.98	30707	12.930	2.190
##	507	507	Fortburg	249420	712203.61	46039	18.460	2.860
##	508	508	Duckfield	266295	1083596.50		42.520	4.070
##	509	509	Sayford	459901	1701651.11	172617	37.530	3.700
##	510	510	Melness	165806	502862.05	34137	20.590	3.030
	511	511	Winterburgh	188488	256490.76	10271	5.450	1.360
	512	512	Millcaster	602842	1665221.76	126327	20.960	2.760
##	513	513	Melview	435525	1004772.02	74521	17.110	2.310
	514	514	Sugarfield	314746	758871.03	31551	10.020	2.410
	515	515	Springdale	295776	506444.57	23353	7.900	1.710
	516	516	Fauxside	379510	862345.20	57800	15.230	2.270
	517	517	Auford	292405	737709.79	42355	14.490	2.520
	518	518	Fairstead	336577	472073.62	10291	3.060	1.400
##	519	519	Springford	304849	782221.92	42069	13.800	2.570
##	520	520	Beachness	435928	666733.57	30073	6.900	1.530
	521	521	Skillport	351025	1035929.14	80751	23.000	2.950
	522	522	Capville	530740	1829092.61		29.320	3.450
##	523	523	Wingdol	287996	854292.10	62617	21.740	2.970
##	524	524	Frostgrad	102186	345965.08	29044	28.420	3.390
##	525	525	Manley	178512	470416.16	31296	17.530	2.640
##	526	526	Lexingworth	225142	716379.70	76939	34.170	3.180
##	527	527	Greenford	497033	1571048.31		26.890	3.160
##	528	528	Dodgeley	536461	582840.24	14095	2.630	1.090
##	529	529	Daydale	717657	2540261.43		28.470	3.540
##	530	530	Sandborough	710739	1939843.90		18.830	2.730
##	531	531	Skillham	256543	613162.62	34513	13.450	2.390
##	532	532	Prowich	362198	513083.09	17234	4.760	1.420
##	533	533	Pinehampton	362422	576554.49	21919	6.050	1.590
##	534	534	Casterview	437630	1402914.32	110463	25.240	3.210
	535	535	Hollowley	253485	621906.77	50633	19.970	2.450
	536	536	Hardland	263747	558695.95	36418	13.810	2.120
	537	537	Duckland	300512	1256171.99		37.390	4.180
	538	538	Masshampton	424627	754245.67	32946	7.760	1.780
	539	539	Hogton	75823	251587.89	26138	34.470	3.320
	541	541	Strongtown	760357	2077230.49		22.170	2.730
	542	542	Millwich	608979	2199674.69		31.010	3.610
	543	543	Griffinworth	362357	534699.49	17542	4.840	1.480
	544	544	Highdol	348921	1045332.42	88535	25.370	3.000
	545	545	Elborough	196480	468634.01	22528	11.470	2.390
	546	546	Snowcester	296801	380861.48	14337	4.830	1.280
	547	547	Parkbury	261002	652864.16	34284	13.140	2.500
	548	548	Princefield	842673	1926432.84		15.000	2.290
	549	549	Rockpool	422735	1329561.35		28.780	3.150
	550		Southingbrough	270563	1034730.82		37.760	3.820
	551	551	Meldol	462465	1533543.20		29.130	3.320
	552	552	Middlebrough	424866	886130.22	61815	14.550	2.090
##	553	553	Masspool	328359	933382.70	68956	21.000	2.840

##	554	554	Riverburgh	226163	954606.37	118383	52.340	4.220
	555	555	Costsborough	68404	131175.72	5474	8.000	1.920
	556	556	Passstead	521372	1267013.22	100014	19.180	2.430
	557	557	Lunworth	468939	1341442.41	121278	25.860	2.860
	558	558	Freepool	426415	1257366.55	89521	20.990	2.950
##	559	559	Ashdale	190541	711212.33	63374	33.260	3.730
##	560	560	Parkside	777062	1326249.20	78473	10.100	1.710
	561	561	Valenwich	164765	387252.23	23935	14.530	2.350
	562	562	Passcester	194244	651532.25	50709	26.110	3.350
	563	563	Costsland	138154	378209.36	33637	24.350	2.740
	564	564	Costsburg	165593	351541.36	17288	10.440	2.120
##	565	565	Kettlemouth	407111	1348326.57		26.430	3.310
##	566	566	Kingborough	447967	1175664.71	57557	12.850	2.620
	567	567	Millcester	360289	1082700.33	67434	18.720	3.010
	568	568	Bannbury	395507	1199709.91	95569	24.160	3.030
	569	569	Factville	511959	843879.38	31573	6.170	1.650
	570	570	Parkview	761044	1924145.01	124630	16.380	2.530
	571	571	Ashborough	494014	872758.35	37710	7.630	1.770
	572	572	Gildale	656675	2167040.45	193942	29.530	3.300
	573	573	Frostdale	464984	1283482.95	76268	16.400	2.760
	574	574	Fairburg	280484	408215.44	26778	9.550	1.460
	575	575	Lawtown	558173	1714017.81		20.250	3.070
	576	576	Fortdol	613648	1804635.32	162095	26.410	2.940
	577	577	Lexingdale	125471	172028.89	4964	3.960	1.370
	578	578	Hoggrad	302116	610096.84	24394	8.070	2.020
	579	579	${ t Julworth}$	439548	1007763.95	77240	17.570	2.290
##	580	580	${\tt Cloudford}$	356949	963859.64	61595	17.260	2.700
##	581	581	Fayside	177865	482740.09	33495	18.830	2.710
##	582	582	Beachcaster	167748	491971.64	31485	18.770	2.930
##	583	583	Strongborough	366975	1281838.13		31.180	3.490
##	584	584	Lunmouth	768590	2208543.76	136830	17.800	2.870
##	585	585	Stoneview	457223	1685047.08	178119	38.960	3.690
##	586	586	Weirham	410465	1397592.09	101606	24.750	3.400
##	587	587	Castergrad	631784	1069830.14	44372	7.020	1.690
##	588	588	Banncester	629270	2144897.16		28.740	3.410
##	589	589	Costsview	331042	773015.50	47267	14.280	2.340
	590	590	Mayborough	416975	1385632.36		26.120	3.320
	591	591	Lexingby	844262	2297272.01		21.190	2.720
	592	592	Appleham	NA	464232.41	20176	NA	NA
	593	593	Castermouth	202604	631507.44	47470	23.430	3.120
	594	594	Lawborough	66276	79617.78	2556	3.860	1.200
	595	595	Mayham	209269	544650.99	48085	22.980	2.600
	596	596	Southingwich	135262	120361.59	698	0.516	0.890
	597	597	Baypool	187626	531115.46	48840	26.030	2.830
	598	598	Stonecester	612557	1752352.77		19.780	2.860
	599	599	Backfield	265464	680318.89	41022	15.450	2.560
	600	600	Lexingcaster	229546	355034.27	12497	5.440	1.550
	601	601	Middleview	422793	1181637.36	81712	19.330	2.790
	602	602	Backpool	623125	1681449.14	98901	15.870	2.700
	603	603	Manbrough	765779	3556205.16		59.300	4.640
	604	604	Queensby	356938	629535.65	25510	7.150	1.760
	605	605	Hollowview	606608	2286262.71		28.030	3.770
	606	606	Waterport	283047	833873.10	64225	22.690	2.950
##	607	607	Farmingbury	207107	184143.87	3810	1.840	0.889

##	608	608	Costsford	274544	892567.99	57682	21.010	3.250
	609	609	Fortton	476457	1064788.01	57173	12.000	2.230
##	610	610	Melland	220902	870850.94	76387	34.580	3.940
	611	611	Tallby	304129	1048727.23	101763	33.460	3.450
	612	612	Westbury	514143	1745361.58		23.860	3.390
##	613	613	Millhampton	555796	2172755.75	241277	43.410	3.910
	614	614	Massworth	236198	955311.83	107605	45.560	4.040
	615	615	Fishfield	623985	1769718.17		26.480	2.840
	616	616	Dayburgh	257333	587606.13	34519	13.410	2.280
##	617	617	Wheelburgh	335024	783406.11	44389	13.250	2.340
##	618	618	Middleburg	373413	635319.65	17307	4.630	1.700
##	619	619	Applefield	360130	851883.07	30184	8.380	2.370
	620	620	Southham	288822	1112592.27	103792	35.940	3.850
	621	621	Mansbury	974181	1765543.97	88510	9.090	1.810
	622	622	Costsstead	381387	368524.48	5309	1.390	0.966
	623	623	Pailford	432714	1172157.13	77481	17.910	2.710
	624	624	Northfield	332048	1108134.19		30.890	3.340
	625	625	Westport	441514	1216292.26	96469	21.850	2.750
	626	626	Lunaburg	740390	1100431.60	21431	2.890	1.490
##	627	627	Stoneness	404671	808634.85	37486	9.260	2.000
##	628	628	Richworth	416237	700112.47	32852	7.890	1.680
##	629	629	Westworth	318609	1268137.20		47.830	3.980
	630	630	Aelby	218621	758503.25	74161	33.920	3.470
	631	631	Proford	431127	1428862.68		25.470	3.310
	632	632	Bellhampton	545064	1704099.08		29.280	3.130
##	633	633	Kettleness	77717	212865.12	15200	19.560	2.740
##	634	634	Greenport	245101	715023.87	39049	15.930	2.920
##	635	635	Casterhampton	141212	520463.51	51000	36.120	3.690
##	636	636	Queensburg	644724	1439060.92	65637	10.180	2.230
##	637	637	Factcaster	338451	968020.86	63919	18.890	2.860
##	638	638	Skillburgh	716790	1160620.43	41861	5.840	1.620
##	639	639	Lunaford	234592	518957.39	26482	11.290	2.210
##	640	640	Manhampton	747870	1159311.02	33088	4.420	1.550
##	641	641	Riverford	353606	944569.75	61503	17.390	2.670
##	642	642	Lundol	322445	1393944.98	161236	50.000	4.320
##	643	643	Waltville	413344	1410137.33	96762	23.410	3.410
	644	644	Highbrough	247155	540861.46	28866	11.680	2.190
	645	645	Norfield	253714	971556.92	93253	36.760	3.830
	646	646	Casterdale	315895	772965.91	42913	13.580	2.450
	647	647	Lawdol	346019	1107245.09	93591	27.050	3.200
	648	648	Lunaborough	232912	390752.77	11681	5.020	1.680
	649	649	Julmouth	367478	1229324.08		30.520	3.350
	650	650	Winside	168935	282578.25	8249	4.880	1.670
	651	651	Appleley	51193	168340.49	14372	28.070	3.290
	652	652	Julcaster	310680	683361.83	29439	9.480	2.200
	653	653	Julstead	288376	641811.41	41766	14.480	2.230
	654	654	Hosborough	298653	926207.59	93192	31.200	3.100
	655 656	655	Wincaster	196173	560321.91	38508	19.630	2.860
	656	656	Bridgeport	255484	724131.85	48058	18.810	2.830
	657 659	657	Oakdale	304862	767562.73	38436	12.610	2.520
	658 650	658 659	Waltland	539628 495755	2526068.65		61.360	4.680
	659 660	659 660	Holtsborough	495755	1371919.38	79799	16.100	2.770
	660 661		Sweetland	55381	90844.49	4485	8.100	1.640
##	661	661	Factton	14855	30533.01	1906	12.830	2.060

	662	662	Highley	297654	1262306.47		46.700	4.240
##	663	663	Southburg	303202	709140.24	42056	13.870	2.340
##	664	664	Costsburgh	540079	1006690.05	58074	10.750	1.860
##	665	665	Julford	375824	832229.75	54558	14.520	2.210
##	666	666	Postwich	259029	703074.05	43732	16.880	2.710
##	667	667	Hapstead	484044	1660466.12	153198	31.650	3.430
##	668	668	Starbrough	532259	1737440.39	143889	27.030	3.260
##	669	669	Pineton	237290	350202.44	8380	3.530	1.480
##	670	670	Seaworth	294176	1127031.25	124831	42.430	3.830
##	671	671	Bellwich	761623	1632678.98	92138	12.100	2.140
##	672	672	Eastside	600605	3419905.02		70.360	5.690
##	673	673	Kingwich	210453	371737.58	17465	8.300	1.770
##	674	674	Gilmouth	440455	1466649.46	115296	26.180	3.330
##	675	675	Seaness	745339	1628190.58	92303	12.380	2.180
##	676	676	Massford	287494	1201362.00	132070	45.940	4.180
##	677	677	Wheelbury	442373	1301368.49	89860	20.310	2.940
##	678	678	Freeland	302892	701813.66	44701	14.760	2.320
##	679	679	Cruxby	300826	868977.63	52686	17.510	2.890
##	680	680	Sageburgh	243429	866282.06	90567	37.200	3.560
##	681	681	Holtscester	441482	1632489.06		40.240	3.700
##	682	682	Princeburgh	444367	1192097.44	78112	17.580	2.680
##	683	683	Hogbrough	260215	745453.90	62563	24.040	2.860
##	684	684	Milldale	474446	660938.82	21914	4.620	1.390
##	685	685	Dodgeborough	932734	2641576.42		20.460	2.830
##	686	686	Fairley	200635	792099.88	92217	45.960	3.950
##	687	687	Hogcaster	213528	316134.79	14028	6.570	1.480
##	688	688	Skillcester	763594	1602531.21	84381	11.050	2.100
##	689	689	Cruxport	394402	1076055.51	66211	16.790	2.730
##	690	690	Sandstead	118943	167371.82	6985	5.870	1.410
##	691	691	Passland	373971	863767.77	74432	19.900	2.310
##	692	692	Fortcaster	519240	1738318.48	163033	31.400	3.350
	693	693	Redland	527431	1737984.61		26.930	3.300
##	694	694	Bayville	205081	902257.27		50.710	4.400
##	695	695	Auton	324812	649999.09	28533	8.780	2.000
##	696	696	Princedale	281382	927341.80	64687	22.990	3.300
##	697	697	Sandpool	296336	669064.22	34692	11.710	2.260
	698	698	Valenport	451731	1236272.69	94924	21.010	2.740
	699	699	Mannorville	293987	615132.90	31014	10.550	2.090
	700	700	Medpool	159108	570117.31	50503	31.740	3.580
	701	701	Hollowmouth	387355	1164625.24	88460	22.840	3.010
	702	702	Hollowdale	215955	1052250.67		53.010	4.870
	703	703	Starborough	238365	598850.23	33201	13.930	2.510
	704	704 705	Julville	204707	494919.01	28477	13.910	2.420
	705	705 706	Mancaster	146633	499897.04	37982	25.900	3.410
	706	706 707	Northgrad	310690	1255395.68		34.230	4.040
	707		Lunport	522388	591271.14	14493	2.770	1.130
	708	708 709	Massfield	266451	540279.11	18889	7.090	2.030
	709 710	709 710	Frostworth	150259	481704.56	38772	25.800	3.210
	710	710 711	Fauxdol	501299	1430211.46	98036	19.560	2.850
	711	711 712	Passton	182489	403170.89	22253	12.190	2.210
	712 713	712 713	Ashtown Elby	154092 332225	437513.09 1410759.29	29441	19.110 48.450	2.840 4.250
	713	713 714	Lawville	229733	265897.44	11548	5.030	1.160
	714	714	Waterview	475518	1541797.55		27.160	3.240
##	113	113	warerview	410010	1041121.00	123141	21.100	3.240

	716	716	Southingley	372984	687256.26	39427	10.570	1.840
	717	717	Fauxmouth	243963	319659.08	11592	4.750	1.310
	718	718	Holtspool	639830	1968768.17		21.240	3.080
	719	719	Melton	504305	1521177.91		26.490	3.020
	720	720	Redcaster	933538	3278703.37		37.260	3.510
	721	721	Elcaster	370264	1213880.55	84419	22.800	3.280
	722	722	Wingstead	689339	1563951.92		14.580	2.270
	723	723	Middledale	189714	441517.51	21268	11.210	2.330
	724	724	Sandton	212497	644047.21	59966	28.220	3.030
##	725	725	Queenscester	291462	508338.85	15252	5.230	1.740
##	726	726	Banncaster	269643	497991.04	26684	9.900	1.850
##	727	727	Jameswich	346962	1192488.06		37.320	3.440
##	728	728	Ashside	832900	2805026.53		33.650	3.370
##	729	729	Griffinwich	209698	806980.45	79967	38.130	3.850
##	730	730	Hogley	470992	792490.79	41866	8.890	1.680
##	731	731	Valenville	196009	538179.46	41957	21.410	2.750
##	732	732	Fauxburg	535706	1282878.92	74466	13.900	2.390
##	733	733	Sayburg	89202	315651.98	25418	28.490	3.540
##	734	734	Fauxport	747068	2396614.97	160463	21.480	3.210
##	735	735	Bellbrough	39623	143031.61	12809	32.330	3.610
##	736	736	Medby	151177	429154.79	32631	21.580	2.840
##	737	737	Bridgepool	348207	1022629.27	108671	31.210	2.940
##	738	738	Pinepool	428667	1871747.74	210717	49.160	4.370
##	739	739	Princeville	181109	472335.98	33356	18.420	2.610
##	740	740	Hapburgh	423649	900858.24	54148	12.780	2.130
##	741	741	Sugarburg	91539	339078.32	33188	36.260	3.700
##	742	742	Richham	410997	915463.74	48204	11.730	2.230
##	743	743	Casterport	300745	635916.30	29215	9.710	2.110
##	744	744	Goldton	209435	706582.45	61111	29.180	3.370
##	745	745	Winworth	600636	1940138.10	144129	24.000	3.230
##	746	746	Norcaster	278650	634186.43	37719	13.540	2.280
##	747	747	Lexington	353683	726253.74	35569	10.060	2.050
##	748	748	Winggrad	296454	868830.99	70221	23.690	2.930
##	749	749	Audol	394001	1466601.69	152225	38.640	3.720
##	750	750	Kington	211993	839730.13	65983	31.130	3.960
##	751	751	Wheelgrad	767071	2794689.87	254512	33.180	3.640
##	752	752	Holtsbury	253245	556211.23	33516	13.230	2.200
##	753	753	Millgrad	185452	512981.77	26320	14.190	2.770
##	754	754	Hallborough	270469	1122096.21	128493	47.510	4.150
##	755	755	Stonedol	396268	1232678.16	95881	24.200	3.110
##	756	756	Hardley	201604	517741.24	27020	13.400	2.570
##	757	757	Massdale	489890	835844.73	48336	9.870	1.710
##	758	758	Richcaster	330908	1043544.54	91013	27.500	3.150
##	759	759	Richness	257448	130083.62	2481	0.964	0.505
##	760	760	Mannorness	584089	2050403.00	204812	35.070	3.510
##	761	761	Chatcester	422130	1096374.97	80281	19.020	2.600
##	762	762	Fortby	502963	659300.09	25523	5.070	1.310
##	763	763	Hollowburgh	343472	1158276.40	125020	36.400	3.370
##	764	764	Dayley	372861	1333106.85	119337	32.010	3.580
##	765	765	Fayford	133662	553067.02	70568	52.800	4.140
	766	766	Winness	179195	371628.16	14229	7.940	2.070
	768	768	Westbrough	113906	249216.92	10634	9.340	2.190
	769	769	Snowmouth	172009	584746.88	57115	33.200	3.400
	770	770	Tallgrad	245338	459078.43	22812	9.300	1.870
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##	771	771	Backley	107419	281518.13	20733	19.300	2.620
##	772	772	Redport	201011	795296.24	75715	37.670	3.960
##	773	773	Ashford	405707	1541753.69		27.430	3.800
##	774	774	Bellburg	466604	1733551.71		32.150	3.720
##	775	775	Wingpool	463039	1076361.29	82215	17.760	2.320
##	776	776	Lawness	398443	1269861.22	98679	24.770	3.190
##	777	777	Stoneby	381597	1368327.47		31.140	3.590
##	778	778	Fairfield	345680	1420733.27		47.610	4.110
##	779	779	Backness	313542	887290.27	68405	21.820	2.830
##	780	780	Costsmouth	165537	363332.71	23541	14.220	2.190
##	781	781	Mannordol	360098	1159922.64	84895	23.580	3.220
##	782	782	Lunaham	852552	2193005.64		16.050	2.570
##	783	783	Dodgeland	270393	1059008.86	95997	35.500	3.920
##	784	784	Appleworth	522469	1428872.24	74976	14.350	2.730
##	785	785	Westgrad	168222	597974.94	59770	35.530	3.550
##	786	786	Rockbury	327108	1105554.19		30.970	3.380
##	787	787	Farminggrad	262019	216129.49	4752	1.810	0.825
##	788	788	Freeley	361758	174936.19	959	0.265	0.484
##	789	789	Valenpool	705464	1703961.55	95972	13.600	2.420
##	790	790	Audale	157071	475595.61 1296835.88	41120	26.180	3.030 2.900
##	791	791	Hapcester Stonewich	447321 226102	767244.44		25.290	
## ##	792 793	792 793	Hardtown	789650	2697472.04	58806	26.010 26.940	3.390 3.420
##	793 794	793	Southingstead	617115	1867517.34		28.790	3.420
##	79 <del>4</del>	794	Bellley	232720	763538.93	58001	24.920	3.280
##	796	796	Fishhampton	503822		130953	25.990	3.160
##	797	797	Bannbrough	550550	1751698.10		19.640	3.180
##	798	798	Winterby	409198	396253.75	10998	2.690	0.968
##	799	799	Southbrough	450451	1153515.92	92513	20.540	2.560
##	800	800	Freeville	65842	200856.45	11533	17.520	3.050
##	801	801	Costsworth	262206	580230.27	32808	12.510	2.210
##	802	802	Foxham	424676	1415820.48	142438	33.540	3.330
##	803	803	Lunford	302353	886641.23	52704	17.430	2.930
##	804	804	Goldhampton	139811	382524.49	18446	13.190	2.740
##	805	805	Middlemouth	230499	507011.33	30797	13.360	2.200
##	806	806	Fortley	315847	889120.27	72540	22.970	2.820
##	807	807	Reddol	182682	535564.99	49538	27.120	2.930
##	808	808	Bannport	177778	387146.44	17618	9.910	2.180
##	809	809	Angerworth	498668	1464620.10	101472	20.350	2.940
##	810	810	Bannville	254852	763400.71	69242	27.170	3.000
##	811	811	Lunaport	184036	605453.27	63141	34.310	3.290
##	812	812	Meltown	417958	997305.25	76037	18.190	2.390
##	813	813	Fayhampton	143315	277888.44	10834	7.560	1.940
##	814	814	Millworth	326773	762659.97	49952	15.290	2.330
##	815	815	Auwich	329557	733747.18	44812	13.600	2.230
##	816	816	Sugarburgh	250011	774581.64	54045	21.620	3.100
##	817	817	Rockdale	544982	1485977.43	112562	20.650	2.730
##	818	818	Richford	278214	577232.30	31162	11.200	2.070
##	819	819	Ashpool	319427	816945.03	53126	16.630	2.560
##	820	820	Hallley	455567	1545193.10		29.750	3.390
	821	821		305858	712762.95	37644	12.310	2.330
	823	823	Saltwich	211481	603455.71	54106	25.580	2.850
	824	824	Lexinghampton	432419	1357239.38		28.910	3.140
##	825	825	Griffinborough	255244	937098.80	73105	28.640	3.670

##	826	826	Summerville	467283	934038.73	43744	9.360	2.000
##	827	827	Proview	243949	719650.26	59284	24.300	2.950
##	828	828	Costsbrough	635344	1140059.70	46095	7.260	1.790
##	829	829	Windale	504067	1363860.00	85057	16.870	2.710
##	830	830	Rockside	313933	560381.51	24789	7.900	1.790
##	831	831	Facthampton	173293	256283.29	13889	8.010	1.480
##	832	832	Weirview	105869	380457.62	46687	44.100	3.590
##	833	833	Melfield	187692	561589.37	37838	20.160	2.990
##	834	834	Hallmouth	245765	562654.91	34317	13.960	2.290
##	835	835	Pailhampton	337674	637427.56	49149	14.560	1.890
##	836	836	Sandtown	161752	426693.44	25913	16.020	2.640
##	837	837	Frostby	235612	887968.87	90806	38.540	3.770
##	838	838	Sayton	164940	342407.51	11952	7.250	2.080
##	839	839	Maywich	185942	626254.81	63305	34.050	3.370
##	840	840	Winpool	478730	651750.70	31624	6.610	1.360
##	841	841	Cruxhampton	210102	552638.49	30415	14.480	2.630
##	842	842	Snowbury	265057	512262.22	23962	9.040	1.930
##	843	843	Angerburg	495018	1445565.88	86860	17.550	2.920
##	844	844	Dodgeness	543991	1128469.49	70150	12.900	2.070
##	845	845	Hamstead	298730	596327.95	48895	16.370	2.000
##	846	846	Bayside	111067	368036.88	30938	27.860	3.310
##	847	847	Greenland	732205	2566258.84		38.620	3.500
##	848	848	Lunham	601823	2505399.87		48.370	4.160
##	849	849	Holtsbrough	369023	1076465.41	73982	20.050	2.920
##	850	850	Hollowcaster	477553	1289773.80	99692	20.880	2.700
##	851	851	Fairpool	286798	1051586.60	97679	34.060	3.670
##	852	852	Bayworth	148627	322172.62	17850	12.010	2.170
##	853	853	Sandbury	219419	555832.76	32037	14.600	2.530
##	854	854	Fishstead	190807	634155.87	46350	24.290	3.320
##	855	855	Hogcester	647493	974035.73	28094	4.340	1.500
##	856	856	Medview	147246	494385.89	55900	37.960	3.360
##	857	857	Springburg	779411	1919725.40	118229	15.170	2.460
##	858	858	Factburg	188359	479869.60	28695	15.230	2.550
##	859	859	Wheelpool	345588	905786.53	65156	18.850	2.620
##	861	861	Bayland	546703	1856640.33	177308	32.430	3.400
##	862	862	Middleham	373306	1234299.93	130212	34.880	3.310
	863	863	Kingley	226820	335509.34	11814	5.210	1.480
	864	864	Capness	259029	614755.07	40161	15.500	2.370
	865	865	Angerham	645543	778797.28	13656	2.120	1.210
		866	Normouth	458663	327578.76	8068	1.760	0.714
		867	Oakcaster	313478	1054973.83	93157	29.720	3.370
		868	Fishbrough	431835	1064104.41	73822	17.090	2.460
		869	Strongworth	598258	2352717.09		33.400	3.930
	870	870	Duckville	282726	828723.83	65590	23.200	2.930
	871	871	Julfield	760607	1865086.41		19.680	2.450
	872	872	Beachhampton	236230	617417.23	41463	17.550	2.610
	873	873 974	Banngrad	253697	1033513.91		49.930	4.070
	874	874	Chatley	468962	990907.73	70512	15.040	2.110
	875 876	875 976	Aubury	66832	212081.15	16459	24.630	3.170
	876	876	Beachham	570033	1617964.23		21.330	2.840
	877 070	877 979	Bayton	196933	353123.77	17460	8.870	1.790
	878	878 870	Sweethampton	541763	2034287.67		37.400	3.750
	879	879 880	Fairgrad	402276	990872.19	58519	14.550	2.460
##	880	880	Norcester	159423	520202.01	45434	28.500	3.260

	004	004		000147	500040 70	04000	7.050	4 700
	881	881	Auworth	303147	539848.72	21966	7.250	1.780
	882	882	Pinebrough	571112	1090207.81	45014	7.880	1.910
##	883	883	Dayford	288529	574417.17	34559	11.980	1.990
##	884	884	Hosburg	130156	581886.96	70163	53.910	4.470
##	885	885	Wingborough	262206	967947.41	86251	32.890	3.690
##	886	886	Griffingrad	113499	378776.50	31685	27.920	3.340
##	887	887	Sugarland	244144	578808.90	30351	12.430	2.370
##	888	888	Melcaster	142208	488759.89	39811	27.990	3.440
##	889	889	Readingtown	242794	694019.36	59327	24.440	2.860
##	890	890	Richside	457969	1669598.39		34.630	3.650
##	891	891	Middleworth	575995	2739799.75		57.030	4.760
##	892	892	Fayburgh	472557	1535076.48	130739	27.670	3.250
##	893	893	Sagedol	259569	400040.38	19632	7.560	1.540
##	894	894	Hardside	337902	831435.99	47872	14.170	2.460
##	895	895	Casterbrough	358103	818251.30	57204	15.970	2.280
##	896	896	Riverton	199706	735887.62	77376	38.740	3.680
##	897	897	Meddol	800499	2267704.81	161478	20.170	2.830
##	898	898	Windol	391456	930493.80	70539	18.020	2.380
##	899	899	Wintermouth	364272	1118552.78	79549	21.840	3.070
##	900	900	Passwich	645968	3087765.29	348010	53.870	4.780
##	901	901	Griffinness	309564	921787.14	72378	23.380	2.980
##	902	902	Beachville	208771	1026755.25	142911	68.450	4.920
##	903	903		175196	473037.75	27510	15.700	2.700
##	905	905	Princecester	352516	1233164.84	146006	41.420	3.500
##	906	906	Fairdol	282500	773514.47	66539	23.550	2.740
##	907	907	Fauxpool	477033	1187230.92	89266	18.710	2.490
##	908	908	Seawich	362812	1030322.47	61197	16.870	2.840
##	909	909	Wingley	277403	702231.32	65874	23.750	2.530
##	910	910	Millpool	730819	2314839.71	198935	27.220	3.170
##	911	911	Summerland	596697	1848954.43	196918	33.000	3.100
##	912	912	Lunby	346741	1034119.38	71450	20.610	2.980
##	913	913	Eastmouth	236774	906922.11	110081	46.490	3.830
##	914	914	Holtsworth	151657	365705.99	23880	15.750	2.410
##	915	915	Cruxburgh	230175	857075.10	87654	38.080	3.720
##	916	916	Lunapool	116080	487219.68	55645	47.940	4.200
##	917	917	Waterfield	288907	1234573.50	107081	37.060	4.270
##	918	918	Kettleburgh	316867	1054855.48	99478	31.390	3.330
##	919	919	Cloudby	443511	1562695.23	142342	32.090	3.520
##	920	920	Pineness	193052	382213.48	17282	8.950	1.980
##	921	921	Mannortown	139393	538245.56	64449	46.240	3.860
##	922	922	Bannpool	440677	959512.86	66534	15.100	2.180
##	924	924	Eastford	379311	441896.67	10540	2.780	1.160
##	925	925	Sandham	300094	800546.56	47920	15.970	2.670
##	926	926	Millbrough	342097	690068.00	42874	12.530	2.020
##	927	927	Talltown	263395	583585.25	31025	11.780	2.220
##	928	928	Daybrough	310326	1378518.77		42.180	4.440
##	929	929	Casterford	687780	2809880.78		40.220	4.090
##	930	930	Kingland	635671	1944096.79	140997	22.180	3.060
	931	931	Gilcaster	260594	509608.35	37251	14.290	1.960
	932	932	Aufield	416852	1028516.38	54806	13.150	2.470
	933	933	Holtsfield	304932	920003.77	75106	24.630	3.020
	934	934	Hogborough	452195	1070434.20	57203	12.650	2.370
	935	935	Hardcaster	131364	207568.19	8577	6.530	1.580
	936	936	Southcester	289846	644717.84	39868	13.750	2.220
			· · · <b></b>					

	937	937	Hogburgh	523317	1163363.52	72521	13.860	2.220
	938	938	Southingport	511804	1462017.50		26.980	2.860
	939	939	Eastton	232579	604559.78	36805	15.820	2.600
	940	940	Winford	773237	1586465.45	99662	12.890	2.050
	941	941	Masstown	338036	781925.84	52622	15.570	2.310
	942	942	Roseport	273717	1037061.25	112068	40.940	3.790
	943	943	Aumouth	260799	953723.79	105511	40.460	3.660
##	944	944	Proport	247511	727183.94	67491	27.270	2.940
##	945	945	Emerwich	578212	2551100.85		44.690	4.410
##	946	946	Daycaster	97795	255505.12	19799	20.250	2.610
##	947	947	Gilfield	522027	1166164.35	71612	13.720	2.230
##	948	948	Summerworth	411508	617627.89	23713	5.760	1.500
	949	949	${ t Middleton}$	236765	522600.84	23952	10.120	2.210
##	950	950	Tallhampton	189032	534540.35	46820	24.770	2.830
##	951	951	Waterbrough	64373	138384.28	4657	7.230	2.150
##	952	952	Auborough	197558	623954.86	68601	34.720	3.160
##	953	953	Fishcaster	424417	1131393.54	79780	18.800	2.670
	954	954	Rosetown	505876	1173364.95	64663	12.780	2.320
	955	955	${ t Bridgeton}$	111530	253405.52	14335	12.850	2.270
	956	956	Lunabrough	332211	660942.21	22615	6.810	1.990
##	957	957	Mannorcester	364706	917836.65	65472	17.950	2.520
##	958	958	Winterpool	467007	1073425.45	68348	14.640	2.300
##	959	959	Manton	374901	992279.23	79936	21.320	2.650
##	960	960	Farmingview	231003	621088.82	47418	20.530	2.690
##	961	961	Stonetown	27026	84701.55	6638	24.560	3.130
##	962	962	Backford	335001	492912.45	17109	5.110	1.470
##	963	963	Backgrad	223209	395057.64	16728	7.490	1.770
##	964	964	Halldol	489778	1124291.56	66003	13.480	2.300
	965	965	Fayland	273147	763619.53	65083	23.830	2.800
##	966	966		182769	686172.35	60210	32.940	3.750
##	967	967	Farmingville	352571	1275987.70	120190	34.090	3.620
##	968	968	Emerley	539374	1509833.10	107892	20.000	2.800
##	969	969	Wingville	157326	456901.10	38504	24.470	2.900
	970	970	Tallham	550662	1782195.35	157036	28.520	3.240
	971	971	Middlestead	755459		206330	27.310	3.390
##	972	972	Jamesport	605329	2479030.98		37.700	4.100
	973	973	Julbrough	193110	622861.80	47204	24.440	3.230
	974	974	Sageport	82371	186336.08	11629	14.120	2.260
	975	975	Aupool	501258	1691208.84		34.620	3.370
	976	976	Springworth	271653	748783.78	53840	19.820	2.760
	977	977	Bellpool	294928	982146.53		38.520	3.330
	978	978	Melville	415021	1650719.90		34.790	3.980
	979	979	Dayhampton	637745	2254142.40		40.560	3.530
	980	980	Manstown	638797	1705119.04		20.310	2.670
	981	981	Farmburgh	440190	1255523.09	93667	21.280	2.850
	982	982	Richview	470030	1230923.22	80923	17.220	2.620
	983	983	Medport	473021	1769120.60		33.340	3.740
	984	984	Lexingbury	562878	1401703.77	92002	16.340	2.490
##	985	985	Casterworth	347572	1099614.74	98600	28.370	3.160
	986	986 087	Fortside	714572	2156426.27		27.030	3.020
	987	987 988	Norstead	401035	1152289.26	83123	20.730	2.870
	988	988 989	Waltton	241339	564010.20	44550 7546	18.460	2.340
	989		Bridgeford	290797	226345.69	7546	2.590	0.778
##	990	990	Readingland	82876	257058.48	23057	27.820	3.100

```
## 991
             991
                     Northburgh
                                      549695
                                              1888357.52 194851
                                                                     35.450
                                                                                  3.440
## 992
             992
                                              1003702.37
                                                                     11.450
                                                                                  2.320
                       Lunabury
                                      433401
                                                           49618
## 993
             993
                    Hardhampton
                                      100575
                                               204375.13
                                                           12351
                                                                     12.280
                                                                                  2.030
## 994
             994
                    Readingburg
                                      158958
                                               380474.77
                                                           13803
                                                                      8.680
                                                                                  2.390
## 995
             995
                     Mannordale
                                      250185
                                               869462.66
                                                           78885
                                                                     31.530
                                                                                  3.480
## 996
             996
                                              1295028.41
                                                           69000
                     Saltbrough
                                      551649
                                                                     12.510
                                                                                  2.350
## 997
             997
                        Faybury
                                      193460
                                               562506.22
                                                           54317
                                                                     28.080
                                                                                  2.910
## 998
             998
                     Sandbrough
                                      166716
                                               357714.91
                                                           20568
                                                                     12.340
                                                                                  2.150
## 999
             999
                     Beachstead
                                      249703
                                               778431.09
                                                           71499
                                                                     28.630
                                                                                  3.120
## 1000
            1000
                         Faywich
                                      356285
                                               718721.38
                                                           32186
                                                                      9.030
                                                                                  2.020
## 1001
           1001
                       Saltview
                                      278668
                                               941807.18
                                                           84457
                                                                     30.310
                                                                                  3.380
```

head(n\_data, 10)

```
##
                      name population advertising sales sales_pct adv_exp_pp
      row_num
## 1
            1 Fairhampton
                                415149
                                         1467743.4 141335
                                                                34.04
                                                                             3.54
## 2
            2
                   Ashwich
                                505932
                                         1426770.1
                                                     96672
                                                                19.11
                                                                             2.82
## 3
            3
               Rockcaster
                                406564
                                         1147775.3
                                                     56084
                                                                13.79
                                                                            2.82
            4
                                                                            2.26
## 4
                  Hogstead
                                494200
                                         1114590.9
                                                     43865
                                                                8.88
## 5
            5
                  Snowgrad
                                323581
                                          888153.3
                                                     66033
                                                                20.41
                                                                            2.74
## 6
            6
                 Sweetport
                                309610
                                          400624.4 16066
                                                                5.19
                                                                            1.29
## 7
            7
               Passcaster
                                780917
                                         3209478.6 327318
                                                                41.91
                                                                            4.11
## 8
            8
                  Parkdale
                                404280
                                         1632156.5 174979
                                                                43.28
                                                                            4.04
## 9
            9
                   Hogbury
                                499986
                                         1445273.8 105101
                                                                21.02
                                                                             2.89
## 11
           11 Hallcester
                                                                            2.79
                                177261
                                          495314.5 49104
                                                                27.70
```

6. Making sure you set the seed correctly (according to the Deliverable Specification), choose a random sample of 700 of the cities. Output the first 10 lines of your new dataset. Use this sample data set for the rest of the assignment.

```
set.seed(1896845)
n_data <- n_data %>%
    sample_n(700)
head(n_data, 10)
```

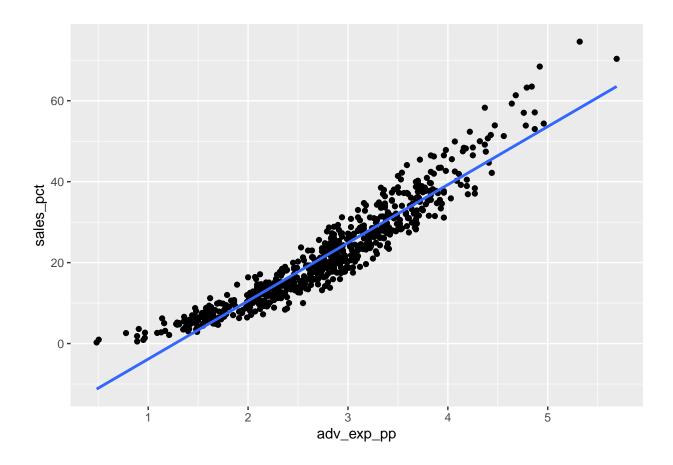
```
##
      row_num
                      name population advertising sales sales_pct adv_exp_pp
## 1
          518
                 Fairstead
                                336577
                                           472073.6
                                                     10291
                                                                 3.06
                                                                             1.40
## 2
          819
                                                                16.63
                                                                             2.56
                   Ashpool
                                319427
                                          816945.0 53126
                                                                             3.68
## 3
           48
                  Waterham
                                335942
                                         1235182.4 102985
                                                                30.66
          243
               Hamhampton
                                                                             2.77
## 4
                                494101
                                         1368686.6 118630
                                                                24.01
## 5
          739 Princeville
                                181109
                                          472336.0
                                                     33356
                                                                18.42
                                                                             2.61
## 6
          935
               Hardcaster
                                131364
                                          207568.2
                                                      8577
                                                                 6.53
                                                                             1.58
## 7
                                          473413.0
                                                     39392
                                                                22.78
                                                                             2.74
          499
                 Winterley
                                172887
## 8
          158 Postborough
                                319623
                                          927922.3
                                                     74146
                                                                23.20
                                                                             2.90
## 9
          693
                   Redland
                                527431
                                         1737984.6 142032
                                                                26.93
                                                                             3.30
## 10
          987
                  Norstead
                                401035
                                         1152289.3 83123
                                                                20.73
                                                                             2.87
```

Q7. Use inspect num to produce summary statistics for all the numerical variables in your new dataset.

```
summary(n data)
##
       row_num
                        name
                                         population
                                                          advertising
##
   Min.
         : 1.0
                    Length:700
                                       Min.
                                             : 14855
                                                         Min.
                                                                : 30533
##
   1st Qu.: 248.2
                                       1st Qu.: 230940
                                                         1st Qu.: 550642
                    Class : character
   Median : 510.5
                    Mode :character
                                       Median : 339755
                                                         Median: 904022
          : 508.4
##
   Mean
                                       Mean
                                             : 365560
                                                         Mean
                                                                :1029292
   3rd Qu.: 762.2
                                       3rd Qu.: 475753
##
                                                         3rd Qu.:1334255
          :1001.0
##
  Max.
                                              :1035529
                                                         Max. :4507066
                                       {\tt Max.}
##
       sales
                                       adv_exp_pp
                    sales_pct
##
   Min. :
              698
                    Min. : 0.265
                                     Min.
                                            :0.484
##
   1st Qu.: 32775
                    1st Qu.:12.690
                                     1st Qu.:2.228
                    Median :20.220
##
  Median : 63612
                                     Median :2.825
## Mean
         : 81692
                           :21.780
                                            :2.783
                    Mean
                                     Mean
##
   3rd Qu.:109065
                    3rd Qu.:28.633
                                     3rd Qu.:3.322
  Max.
                                     Max.
          :595122
                    Max.
                           :74.600
                                            :5.690
head(n_data, 10)
                    name population advertising sales sales_pct adv_exp_pp
##
     row_num
## 1
                             336577
                                       472073.6
                                                 10291
                                                            3.06
         518
               Fairstead
## 2
         819
                 Ashpool
                             319427
                                       816945.0 53126
                                                           16.63
                                                                       2.56
## 3
          48
                Waterham
                             335942
                                      1235182.4 102985
                                                           30.66
                                                                       3.68
## 4
         243 Hamhampton
                             494101
                                      1368686.6 118630
                                                           24.01
                                                                       2.77
## 5
         739 Princeville
                                       472336.0 33356
                                                           18.42
                             181109
                                                                       2.61
## 6
         935 Hardcaster
                             131364
                                       207568.2
                                                  8577
                                                            6.53
                                                                       1.58
                                       473413.0 39392
## 7
         499
               Winterley
                             172887
                                                           22.78
                                                                       2.74
## 8
         158 Postborough
                             319623
                                       927922.3 74146
                                                           23.20
                                                                       2.90
## 9
         693
                 Redland
                             527431
                                      1737984.6 142032
                                                           26.93
                                                                       3.30
## 10
         987
                Norstead
                             401035
                                      1152289.3 83123
                                                           20.73
                                                                       2.87
```

Q8. Produce a scatterplot of the two new columns sales pct and adv exp pp, with the explanatory variable on the horizontal axis and the response variable on the vertical axis. Include a straight line of best fit on your plot. Does it look like there is a linear relationship between the two variables? (Provide some reasons for your answer.)

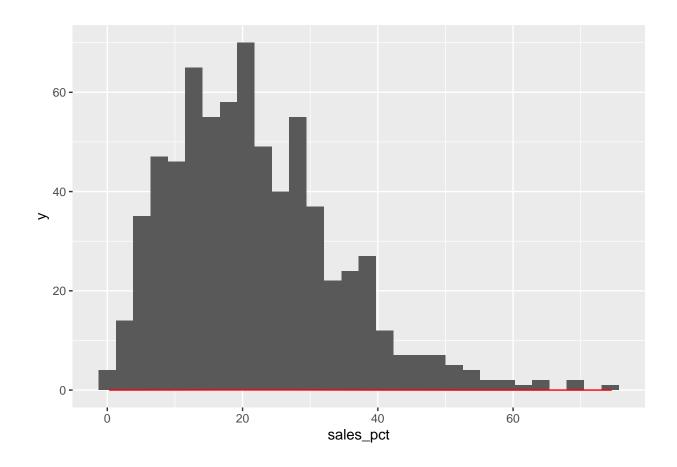
```
ggplot(n_data, aes(x = adv_exp_pp, y = sales_pct)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE)
```



Q9. Plot a histogram of sales pct and calculate the skewness. Does the data look like a standard normal distribution? (Provide some reasons for your answer.) • (Note that to fit the linear model, we don't really need the histogram to be roughly like a normal distribution, but it's another interesting piece of data that is often worth checking for any glaring problems.)

```
#Q9

ggplot(n_data, aes(x = sales_pct)) +
  geom_histogram() +
  stat_function(fun = dnorm, args = list(mean = mean(n_data$sales_pct), sd = sd(n_data$sales_pct)), col
```



Q10. We would like to fit a linear model to this data, and so we will first apply a Box-Cox transformation to the response variable.(a) Use BoxCoxTrans to obtain an estimate of . What is the estimate?(b) Apply the transformation to create a new column in your dataset.Output the first 10 lines of your dataset.

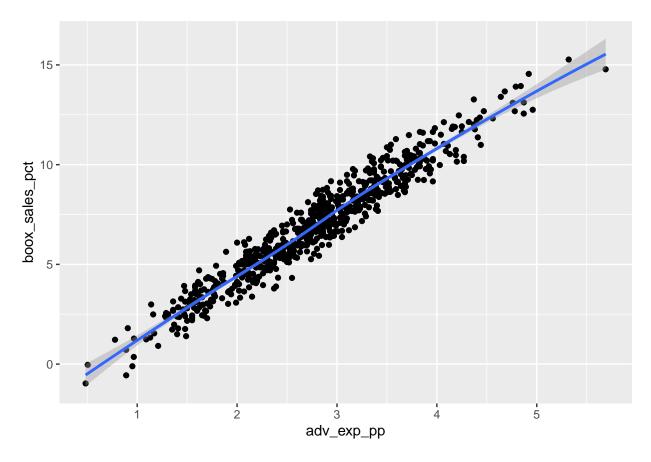
```
# Applying Box-Cox transformation
Boooo <- BoxCoxTrans(y = n_data$sales_pct, x = n_data$adv_exp_pp)
Воооо
## Box-Cox Transformation
##
## 700 data points used to estimate Lambda
##
## Input data summary:
     Min. 1st Qu. Median
##
                              Mean 3rd Qu.
                                              Max.
##
     0.265 12.690 20.220 21.780 28.633 74.600
##
## Largest/Smallest: 282
## Sample Skewness: 0.872
##
## Estimated Lambda: 0.5
```

```
n_data <- mutate(n_data,boox_sales_pct = round_data(predict(Boooo,n_data$sales_pct)))
head(n_data,10)</pre>
```

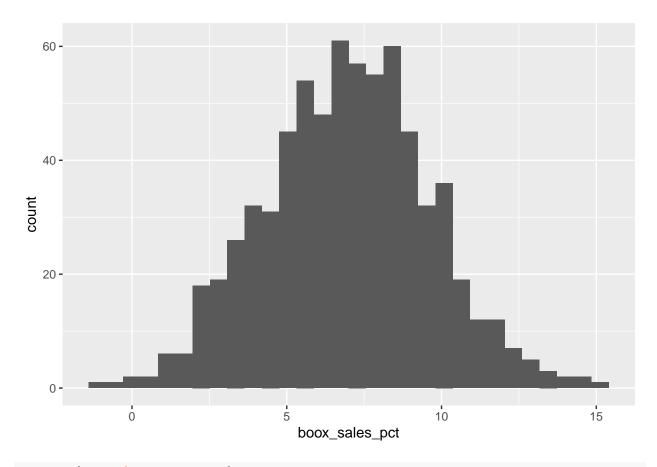
```
##
      row_num
                     name population advertising sales sales_pct adv_exp_pp
## 1
          518
                               336577
                                         472073.6 10291
                                                               3.06
                                                                          1.40
                Fairstead
## 2
          819
                  Ashpool
                               319427
                                         816945.0 53126
                                                              16.63
                                                                          2.56
## 3
           48
                 Waterham
                               335942
                                        1235182.4 102985
                                                              30.66
                                                                          3.68
## 4
          243 Hamhampton
                               494101
                                        1368686.6 118630
                                                              24.01
                                                                          2.77
## 5
          739 Princeville
                               181109
                                         472336.0 33356
                                                              18.42
                                                                          2.61
                                                                          1.58
## 6
          935 Hardcaster
                               131364
                                         207568.2
                                                    8577
                                                               6.53
## 7
          499
                Winterley
                               172887
                                         473413.0
                                                   39392
                                                              22.78
                                                                          2.74
## 8
          158 Postborough
                               319623
                                         927922.3 74146
                                                              23.20
                                                                          2.90
## 9
          693
                  Redland
                              527431
                                        1737984.6 142032
                                                              26.93
                                                                          3.30
## 10
          987
                 Norstead
                               401035
                                        1152289.3 83123
                                                              20.73
                                                                          2.87
##
      boox_sales_pct
## 1
                1.50
## 2
                6.16
## 3
                9.07
                7.80
## 4
                6.58
## 5
## 6
                3.11
## 7
                7.55
## 8
                7.63
## 9
                8.38
## 10
                7.11
```

Q11. Produce a scatterplot of the transformed data (with a line of best fit), as well as a histogram and the skewness. Write 2–3 sentences about this output.

```
library(moments)
ggplot(n_data,aes(adv_exp_pp,boox_sales_pct)) +
  geom_point() +
  geom_smooth()
```



```
library(moments)
ggplot(n_data, aes(boox_sales_pct)) + geom_histogram()
```



skewness(n\_data\$boox\_sales\_pct)

## [1] 0.02871424

The scatter plot shows us that the data points are not linearly aligned close to the best fit line.

Q12.12. (a) Write down the general equation of a linear model for this transformed data (with appropriate coefficients).

Make sure you define any variables you introduce. (Hint: this equation should include the error

terms.)

- (b) Also write down the formula for the line of best fit (with standard notation for the coefficients).
- (c) Now build a linear model in R, and use the output to find estimates for the model coefficients. Write

down the correct formula with these coefficients.

Solution: (a) The equation of a linear model for this transformed data can be given as follows: Y = 0 + 1\*X + 1\*X

where y is a dependent variable and x is a independent variable

(b)  $\hat{Y} = \hat{1}X$  where  $\hat{i}$  is predicted value of dependent variable and  $\hat{1}$  is the estimated coefficient of the model predicted.

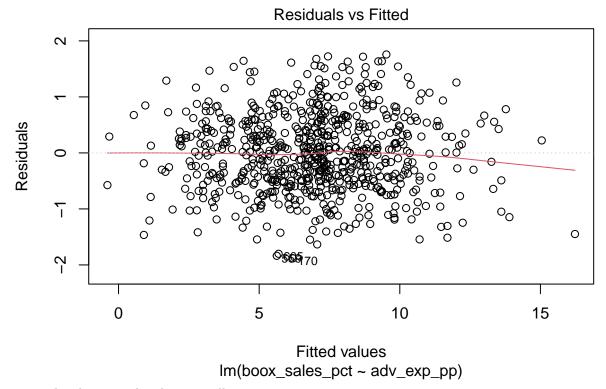
```
##(c)
# Using box coc transformed data to lm model
mm_model <- lm(boox_sales_pct ~ adv_exp_pp, data = n_data)</pre>
summary(mm_model)
##
## Call:
## lm(formula = boox_sales_pct ~ adv_exp_pp, data = n_data)
##
## Residuals:
##
                  1Q
       Min
                       Median
                                    3Q
                                             Max
## -1.88186 -0.49044 0.00608 0.48831 1.75732
##
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
##
## (Intercept) -1.94054
                           0.09491
                                    -20.45
                                              <2e-16 ***
## adv_exp_pp
                                              <2e-16 ***
                3.19310
                           0.03276
                                     97.47
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6974 on 698 degrees of freedom
## Multiple R-squared: 0.9316, Adjusted R-squared: 0.9315
## F-statistic: 9500 on 1 and 698 DF, p-value: < 2.2e-16
coefficients <- coef(mm_model)</pre>
coefficients
## (Intercept)
                adv_exp_pp
     -1.940541
                  3.193098
##
```

##Q13. Using the material in Module 6 (p. 10–13), check if our model satisfies the 4 assumptions for a linear model. You will need to write some text explaning your conclusions here. Make sure you identify at least one possible problem with the Independence assumption. • (Note that we are going to use a linear model regardless of any problems that you find in the assumptions, but it is always good to highlight any shortcomings of the model so the client knows about them.)

## **Solution:**

(a) Linearity:

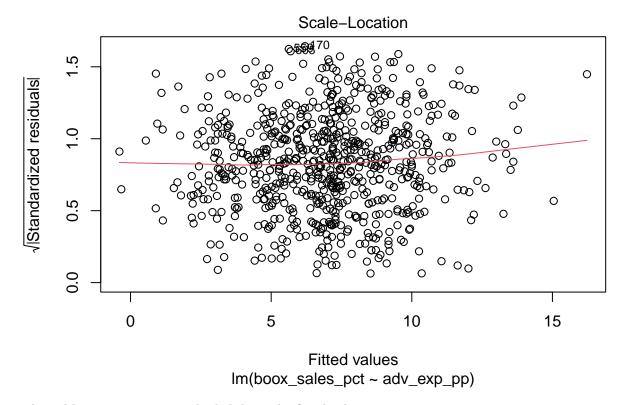
```
plot(mm_model, which = 1)
```



seeing the above graph it has a small curvature.

(b) Constant variance:

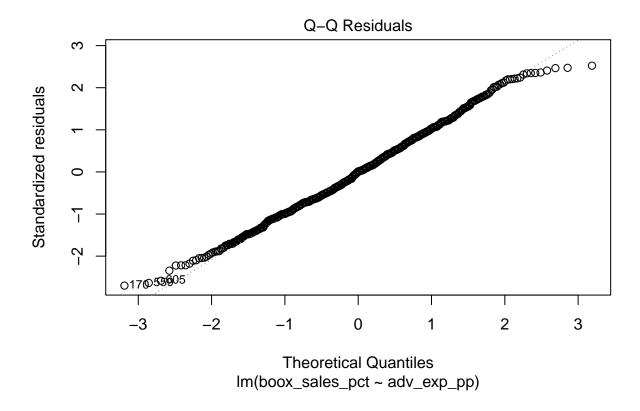
plot(mm\_model, which = 3)



The red line is moving upwards slightly as the fitted values increase.

(c) Normality: This is the normal QQ plot of the residuals.

plot(mm\_model, which = 2)



4. Independence: This type of assumption requires the residuals to be independent of each other.

Q14. Use your model to predict the percentage of a city's population that will buy a Gadget 2® for each of the 3 advertising expenditure scenarios. Don't forget the client wants an interval as well. (Hint: you will need to transform your predictions back into the scale of the original variables.)

```
#taking values from the background as mentioned in the handout
exp_data <- c(0.05, 3.14, 6.00)

pred <- predict(mm_model, newdata = data.frame(adv_exp_pp = exp_data), interval = "prediction", level =
pred

## fit lwr upr
## 1 -1.780886 -2.939794 -0.6219777
## 2 8.085785 6.936137 9.2354334
## 3 17.218044 16.055526 18.3805623

pred <- as.data.frame(pred)
pred$lower <- (pred$lower)^2</pre>
```

```
pred$estimate <- (pred$fit)^2
pred$upper <- (pred$upr)^2

pred <- pred[, c("estimate", "lower", "upper")]

print(pred)</pre>
```

```
## estimate lower upper
## 1 3.171555 8.642389 0.3868563
## 2 65.379925 48.110002 85.2932294
## 3 296.461048 257.779923 337.8450690
```

Q15.Write a few sentences to interpret your model results for the company. Make sure you highlight any predictions that are clearly erroneous, and give some explanation of why that might be.

## Answer:

From the model it clearly explains the situations in three ratio i.e low scenario: where the model predicts upto 8.642389 as lower and 0.3868563 as upper with an estimation of 3.171555 percentage. medium scenario: where the model predicts upto 48.110002 as lower and 85.2932294 as upper with an estimation of 65.379925 percentage. upper scenario: where the model predicts upto 257.779923 as lower and 337.8450690 as upper with an estimation of 296.461048 percentage.