Data Analyst

Making HMIS Work for You

What I will cover today

- **Part I:** Getting big data… *fast!*
- **Part II:** Making customized forms and reports
- **Part III:** Suggested tools for client intake

The software I will recommend

- R
  - Open-source
  - Costs nothing
  - Not pretty, but lightning-fast
- FileMaker
  - Cheap licenses available for PCs
  - Slower and more clumsy than R, but can make some nice-looking layouts
  - Free apps allow for easy, portable viewing

Goals of this presentation

- Increase the **customizability** and **share-ability** of HMIS tools in Georgia.
- Enable our data analysis to be more **flexible** and more **collaborative**.

Data Connect

- All the tools in this presentation make use of a capability called **Data Connect** (aka ODBC).
- It makes it possible for software to access HMIS through a "back door."
- Contact Pathways if you are interested in installing Data Connect on your computer (no cost).

Part I

Getting big data... *fast!*

Wouldn't it be great if…

- You could get **hot-off-the-press** HMIS statistics and charts?
  - **Instantaneously?**
  - AND **effortlessly**?

Instead of…

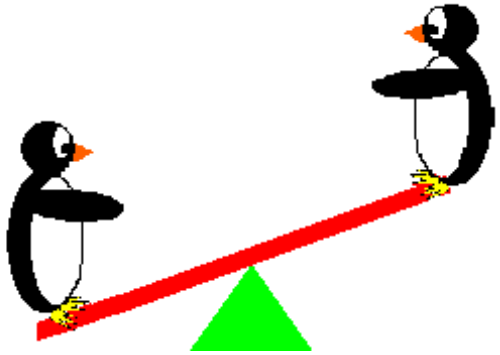
- Having to sort through a PED export every time?

About R software

- The R Project was launched as a free alternative to expensive statistical software like SPSS and SAS.
- Many programmers and academics have volunteered their time and expertise to create a reliable product.
- Today, it is widely accepted by statisticians and data miners.

The ups and downs of R

- Ups
  - It is **fast**
  - Scripts are easily **share-able**
  - It was built for **data** and **statistics**



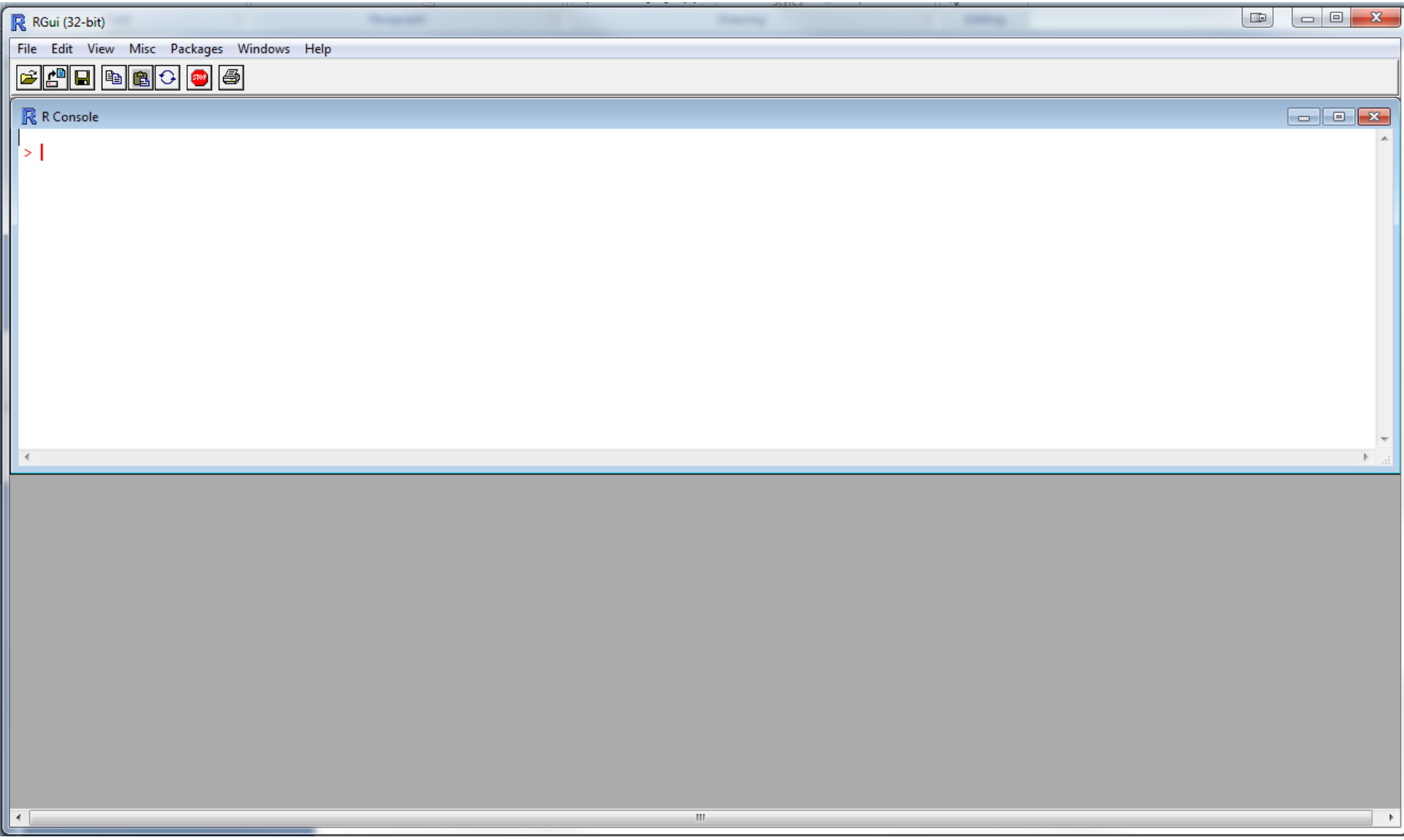
- Downs
  - The interface might be **intimidating** for non-programmers

But it can be as easy as 1-2-3

1. **Open** a script
2. **Press** ctrl-A (to highlight)
3. **Press** ctrl-R (to run the code)

That's it!

You don't need to be a programmer!


RGui (32-bit)
File Edit View Misc Packages Windows Help
R Console
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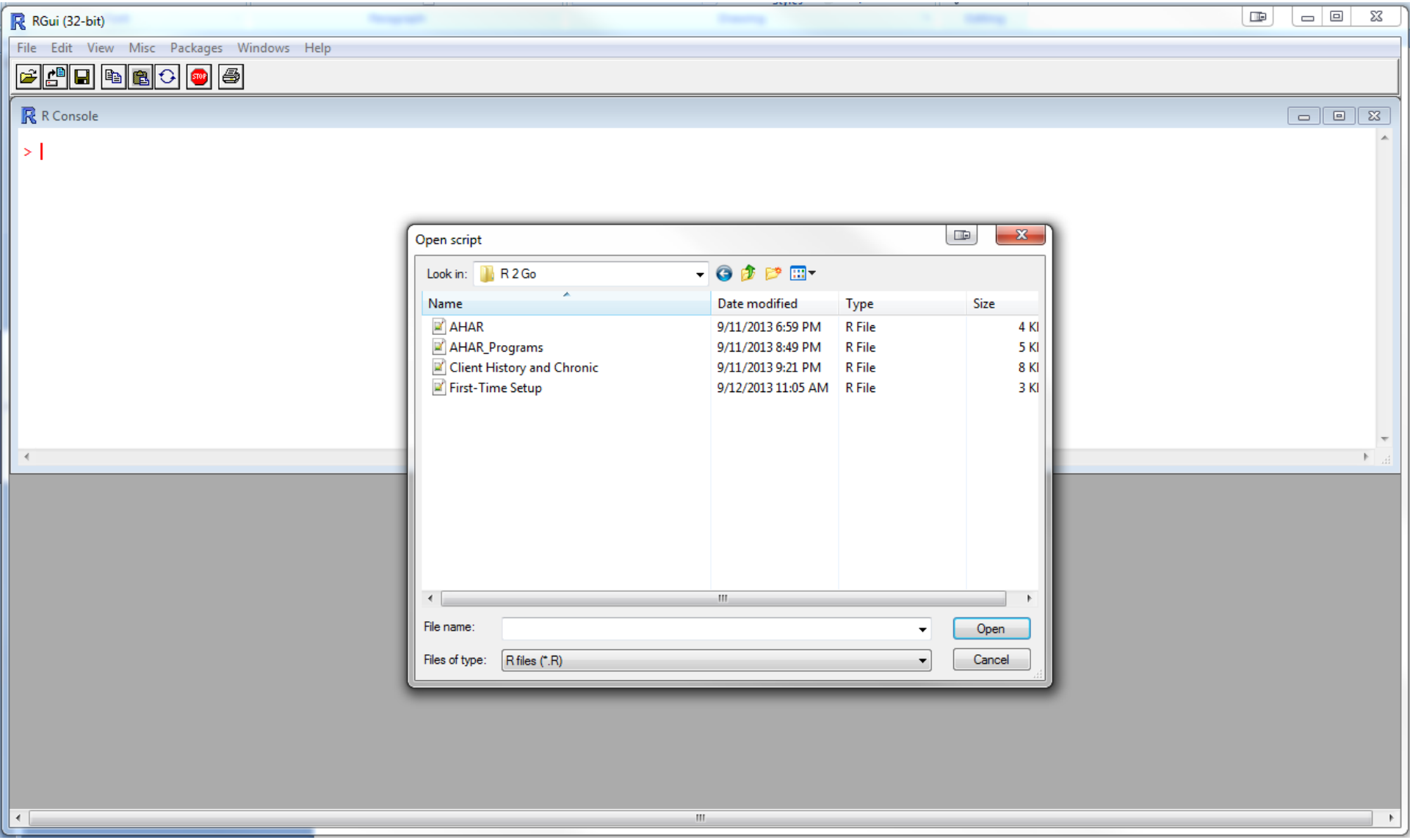
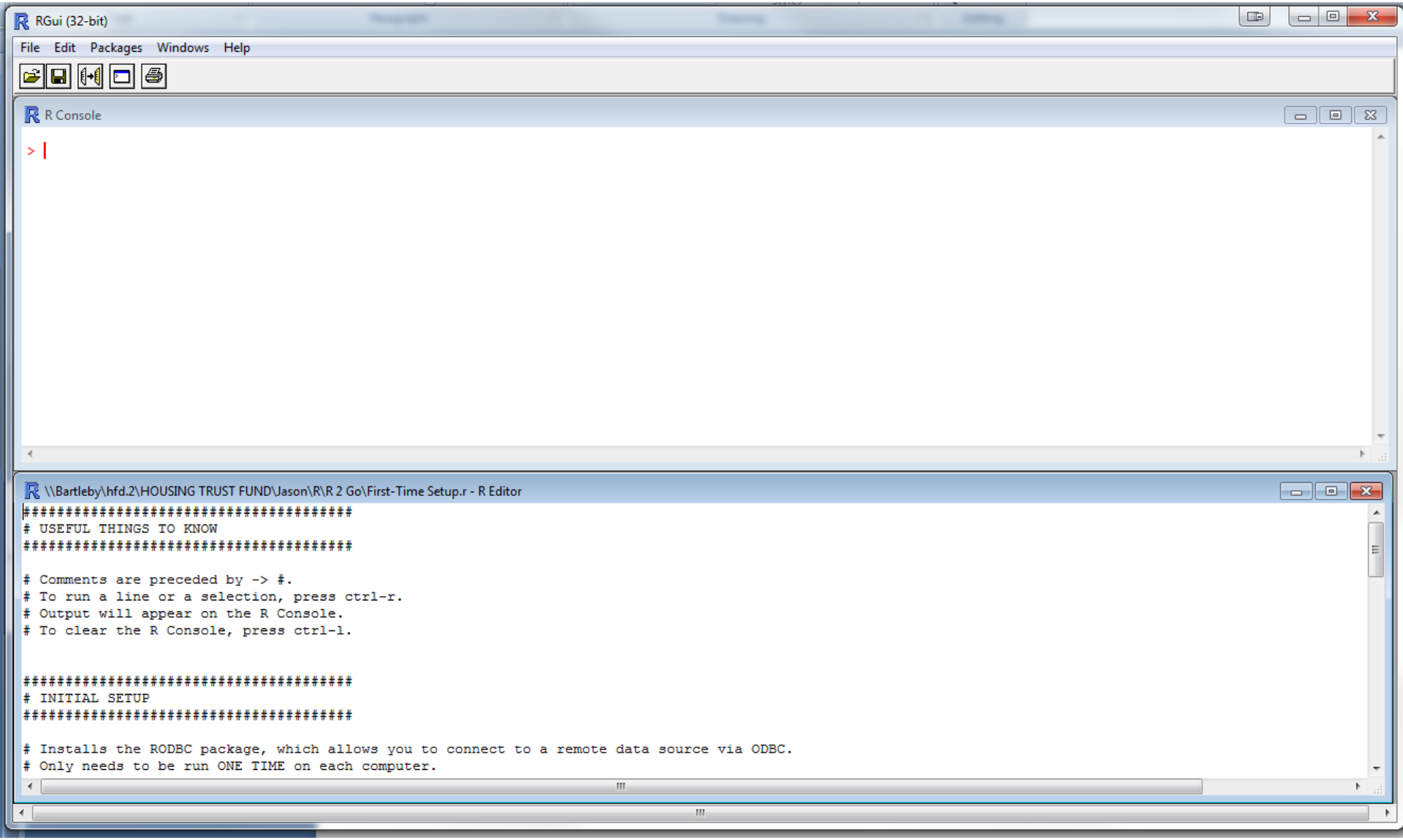
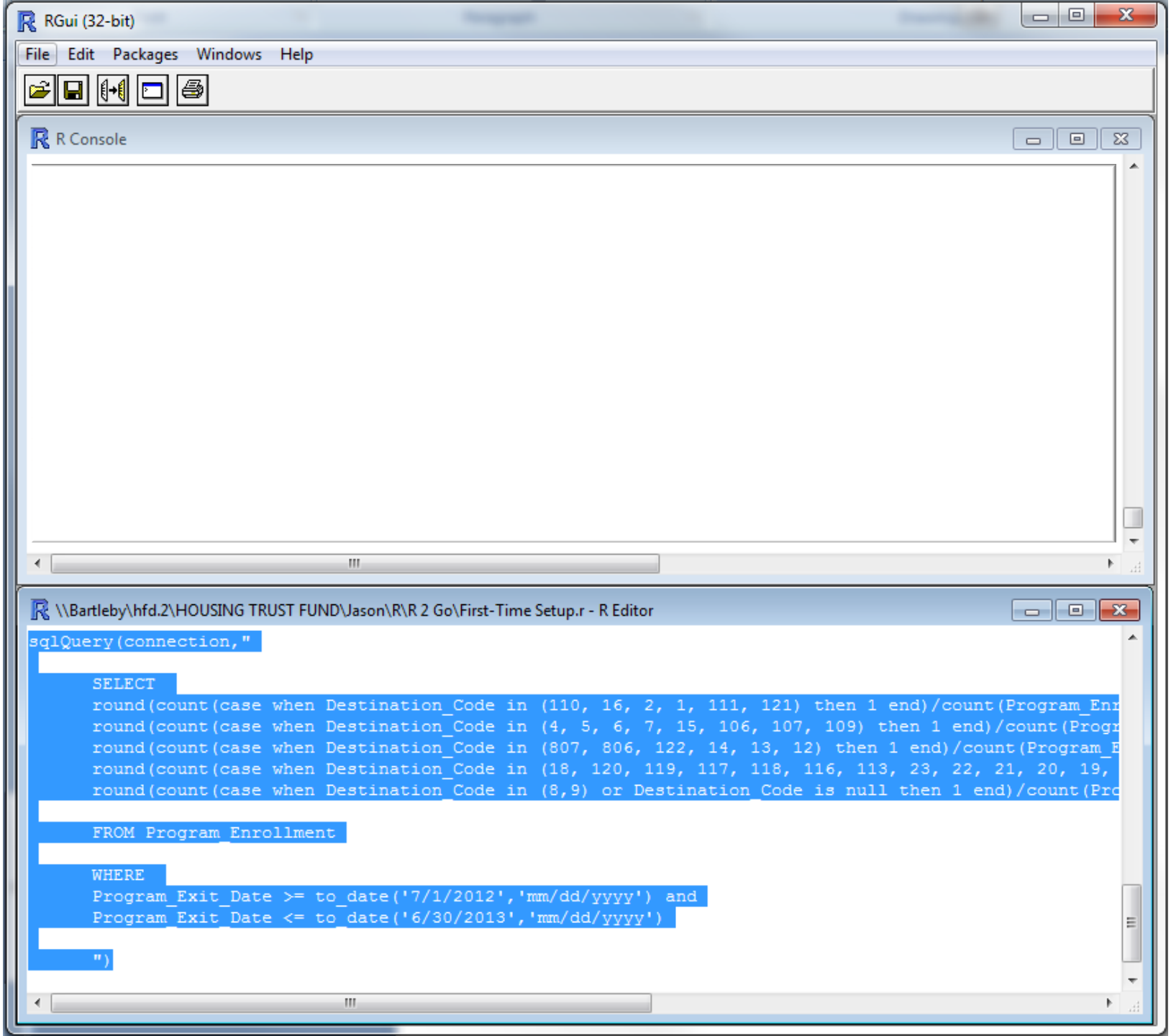

RGui (32-bit)
File Edit View Misc Packages Windows Help
R Console
>
Open script
Look in: R 2 Go
Name
Date modified
Type
Size
AHAR
9/11/2013 6:59 PM
R File
4 KI
AHAR_Programs
9/11/2013 8:49 PM
R File
5 KI
Client History and Chronic
9/11/2013 9:21 PM
R File
8 KI
First-Time Setup
9/12/2013 11:05 AM
R File
3 KI
File name:
Open
Files of type:
R files (*.R)
Cancel


RGui (32-bit)
File Edit Packages Windows Help
R Console
>
\\Bartleby\hfd.2\HOUSING TRUST FUND\Jason\R\R 2 Go\First-Time Setup.r - R Editor
##
USEFUL THINGS TO KNOW
##
Comments are preceded by -> #.
To run a line or a selection, press ctrl-r.
Output will appear on the R Console.
To clear the R Console, press ctrl-l.
##
INITIAL SETUP
##
Installs the RODBC package, which allows you to connect to a remote data source via ODBC.
Only needs to be run ONE TIME on each computer.


RGui (32-bit)
File Edit Packages Windows Help
R Console
\\Bartleby\hfd.2\HOUSING TRUST FUND\Jason\R\R 2 Go\First-Time Setup.r - R Editor
sqlQuery(connection,"
SELECT
round(count(case when Destination_Code in (110, 16, 2, 1, 111, 121) then 1 end)/count(Program_Enr
round(count(case when Destination_Code in (4, 5, 6, 7, 15, 106, 107, 109) then 1 end)/count(Progr
round(count(case when Destination_Code in (807, 806, 122, 14, 13, 12) then 1 end)/count(Program_E
round(count(case when Destination_Code in (18, 120, 119, 117, 118, 116, 113, 23, 22, 21, 20, 19,
round(count(case when Destination_Code in (8,9) or Destination_Code is null then 1 end)/count(Pro
FROM Program_Enrollment
WHERE
Program_Exit_Date >= to_date('7/1/2012','mm/dd/yyyy') and
Program_Exit_Date <= to_date('6/30/2013','mm/dd/yyyy')
")

RGui (32-bit)

File Edit Packages Windows Help

R Console

```
+ SELECT
+ round(count(case when Destination_Code in (110, 16, 2, 1, 111, 121) then 1 end)/count(Program_Enrol$
+ round(count(case when Destination_Code in (4, 5, 6, 7, 15, 106, 107, 109) then 1 end)/count(Program$
+ round(count(case when Destination_Code in (807, 806, 122, 14, 13, 12) then 1 end)/count(Program_Enr$
+ round(count(case when Destination_Code in (18, 120, 119, 117, 118, 116, 113, 23, 22, 21, 20, 19, 11$
+ round(count(case when Destination_Code in (8,9) or Destination_Code is null then 1 end)/count(Progr$
+
+ FROM Program_Enrollment
+
+ WHERE
+ Program_Exit_Date >= to_date('7/1/2012','mm/dd/yyyy') and
+ Program_Exit_Date <= to_date('6/30/2013','mm/dd/yyyy')
+
+ ")
  HOMELESS INSTITUTIONAL TEMPORARY PERMANENT UNKNOWN
1   44.63%         1.56%     8.81%     30.5%  11.47%
>
```

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```
sqlQuery(connection,"

      SELECT
      round(count(case when Destination_Code in (110, 16, 2, 1, 111, 121) then 1 end)/count(Program_Enr
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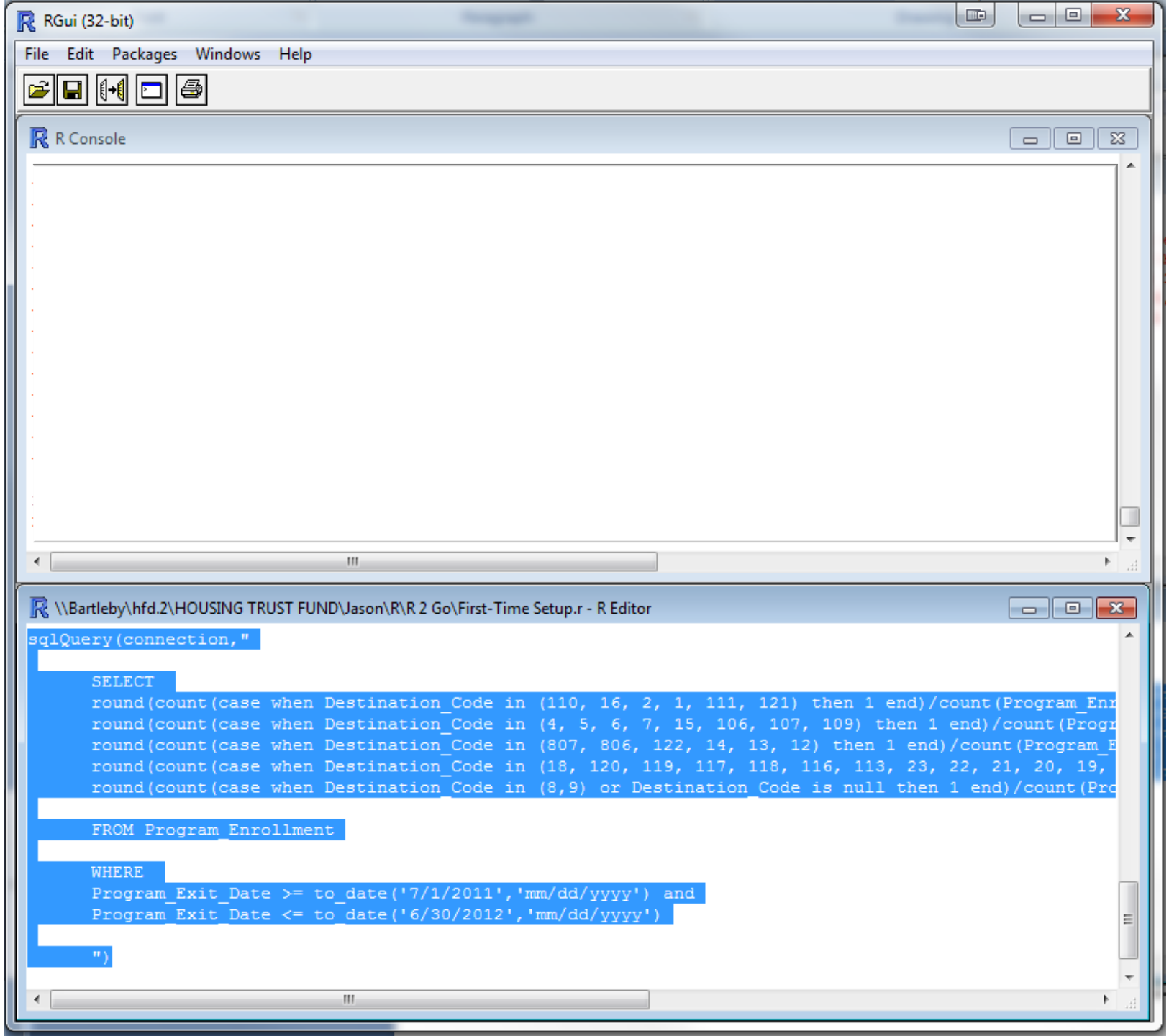
      FROM Program_Enrollment

      WHERE
      Program_Exit_Date >= to_date('7/1/2012','mm/dd/yyyy') and
      Program_Exit_Date <= to_date('6/30/2013','mm/dd/yyyy')

      ")
```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")

RGui (32-bit)

File Edit Packages Windows Help

R Console

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+
+ FROM Program_Enrollment
+
+ WHERE
+ Program_Exit_Date >= to_date('7/1/2011','mm/dd/yyyy') and
+ Program_Exit_Date <= to_date('6/30/2012','mm/dd/yyyy')
+
+ ")
  HOMELESS INSTITUTIONAL TEMPORARY PERMANENT UNKNOWN
1   30.67%          1.61%      6.88%     34.83%  21.87%
>
```

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```
sqlQuery(connection,"

      SELECT
      round(count(case when Destination_Code in (110, 16, 2, 1, 111, 121) then 1 end)/count(Program_Enr
      round(count(case when Destination_Code in (4, 5, 6, 7, 15, 106, 107, 109) then 1 end)/count(Progr
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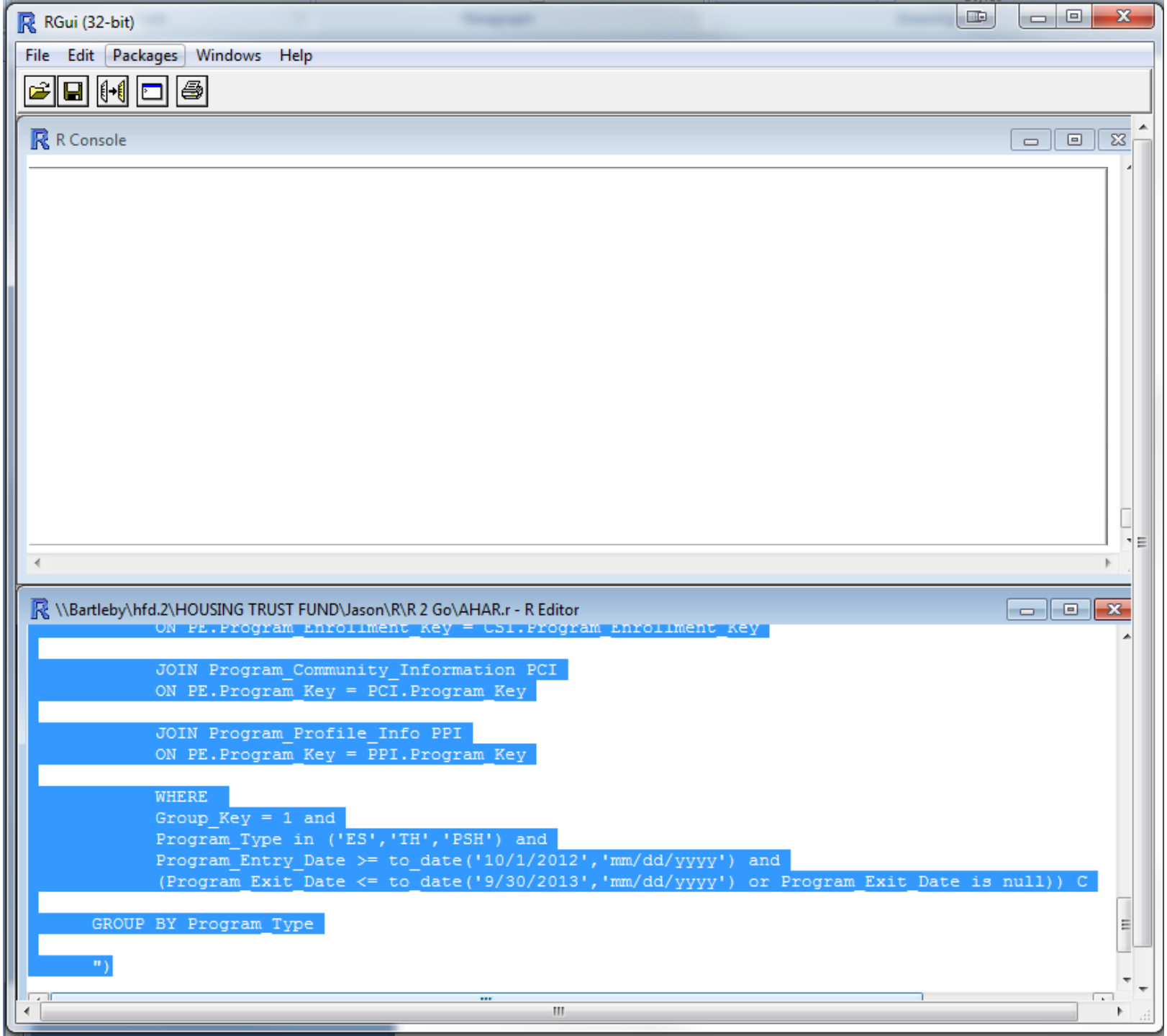
      WHERE
      Program_Exit_Date >= to_date('7/1/2011','mm/dd/yyyy') and
      Program_Exit_Date <= to_date('6/30/2012','mm/dd/yyyy')

      ")
```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File Edit Packages Windows Help
R Console
\\Bartleby\hfd.2\HOUSING TRUST FUND\Jason\R\R 2 Go\AHAR.r - R Editor
ON PE.Program_Enrollment_Key = CS1.Program_Enrollment_Key
JOIN Program_Community_Information PCI
ON PE.Program_Key = PCI.Program_Key
JOIN Program_Profile_Info PPI
ON PE.Program_Key = PPI.Program_Key
WHERE
Group_Key = 1 and
Program_Type in ('ES','TH','PSH') and
Program_Entry_Date >= to_date('10/1/2012','mm/dd/yyyy') and
(Program_Exit_Date <= to_date('9/30/2013','mm/dd/yyyy') or Program_Exit_Date is null)) C
GROUP BY Program_Type
")

RGui (32-bit)

File Edit Packages Windows Help

R Console

```
+
+ ")
  PROGRAM_TYPE CLIENT_COUNT ID_MISS  ID_DKR DOB_MISS DOB_DKR GENDER_MISS GENDER_DKR RACE_MISS
1           ES         4587      0% 2.3763%       0%      0%          0%         0%       0%
2          PSH          907      0%  .7718%       0%      0%          0%         0%       0%
3           TH          653      0% 1.5314%       0%      0%          0%         0%       0%
  RACE_DKR ETHNICITY_MISS ETHNICITY_DKR VET_MISS VET_DKR PNR_MISS PNR_DKR ZIP_MISS ZIP_DKR
1       0%              0%        .0218%       0%  .0654%       0%  .0872%       0%  .5232%
2       0%              0%        .1103%       0%      0%       0%  .2205%       0%  .1103%
3       0%              0%            0%       0%      0%       0%  .4594%       0%  .4594%
  UNACCOMPANIED_YOUTH
1                   0
2                   0
3                   0
Warning message:
closing unused RODBC handle 1
> |
```

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```
            ON PE.Program_Enrollment_Key = CSI.Program_Enrollment_Key

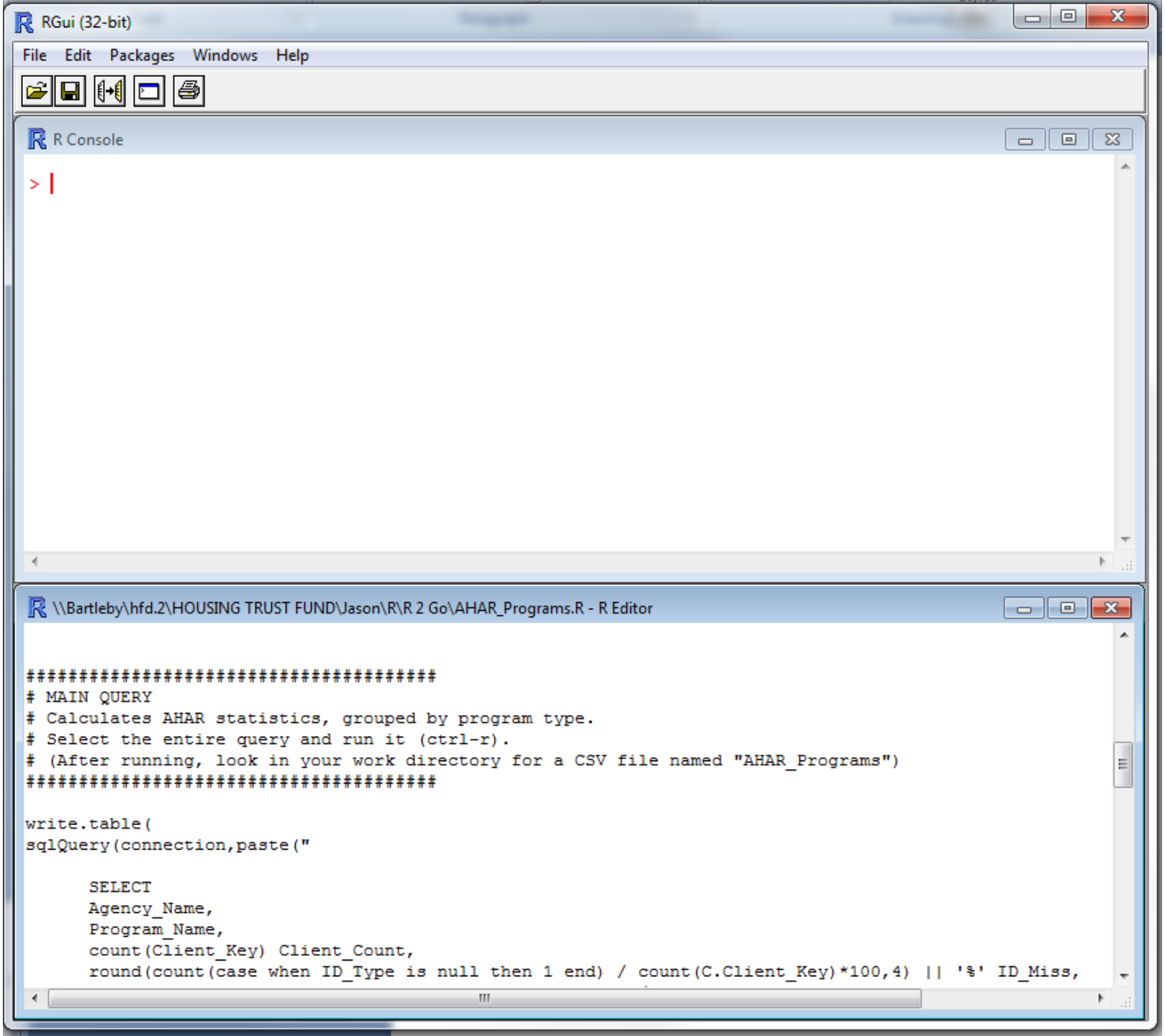
            JOIN Program_Community_Information PCI
            ON PE.Program_Key = PCI.Program_Key

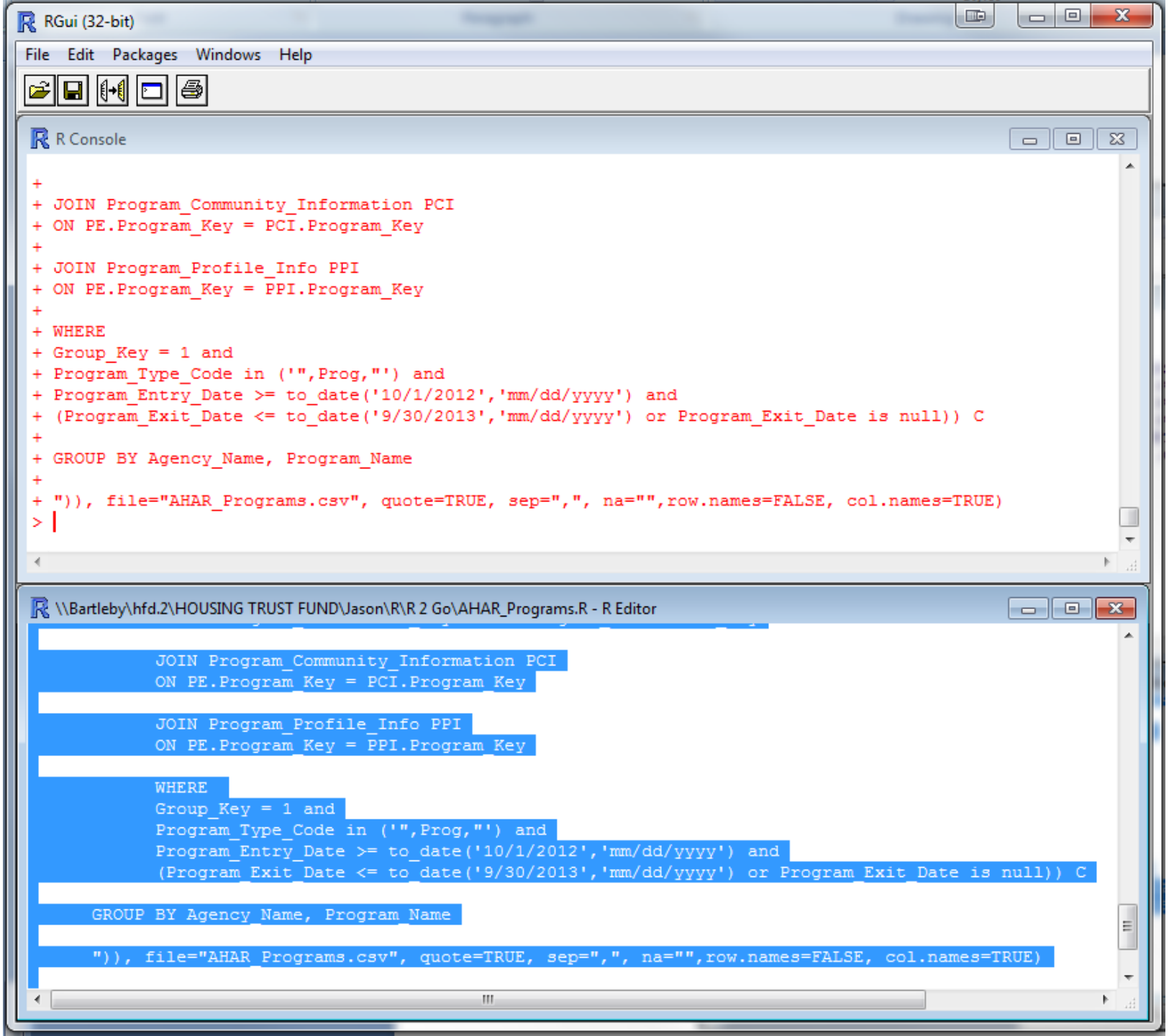
            JOIN Program_Profile_Info PPI
            ON PE.Program_Key = PPI.Program_Key

            WHERE
            Group_Key = 1 and
            Program_Type in ('ES','TH','PSH') and
            Program_Entry_Date >= to_date('10/1/2012','mm/dd/yyyy') and
            (Program_Exit_Date <= to_date('9/30/2013','mm/dd/yyyy') or Program_Exit_Date is null)) C

      GROUP BY Program_Type

      ")
```


RGui (32-bit)
File Edit Packages Windows Help
R Console
>
\\Bartleby\hfd.2\HOUSING TRUST FUND\Jason\R\R 2 Go\AHAR_Programs.R - R Editor
##
MAIN QUERY
Calculates AHAR statistics, grouped by program type.
Select the entire query and run it (ctrl-r).
(After running, look in your work directory for a CSV file named "AHAR_Programs")
##
write.table(
sqlQuery(connection,paste("
SELECT
Agency_Name,
Program_Name,
count(Client_Key) Client_Count,
round(count(case when ID_Type is null then 1 end) / count(C.Client_Key)*100,4) || '%' ID_Miss,


RGui (32-bit)
File Edit Packages Windows Help
R Console
+
+ JOIN Program_Community_Information PCI
+ ON PE.Program_Key = PCI.Program_Key
+
+ JOIN Program_Profile_Info PPI
+ ON PE.Program_Key = PPI.Program_Key
+
+ WHERE
+ Group_Key = 1 and
+ Program_Type_Code in ('",Prog,"') and
+ Program_Entry_Date >= to_date('10/1/2012','mm/dd/yyyy') and
+ (Program_Exit_Date <= to_date('9/30/2013','mm/dd/yyyy') or Program_Exit_Date is null)) C
+
+ GROUP BY Agency_Name, Program_Name
+
+ ")), file="AHAR_Programs.csv", quote=TRUE, sep=",", na="",row.names=FALSE, col.names=TRUE)
>
\\Bartleby\hfd.2\HOUSING TRUST FUND\Jason\R\R 2 Go\AHAR_Programs.R - R Editor
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WHERE
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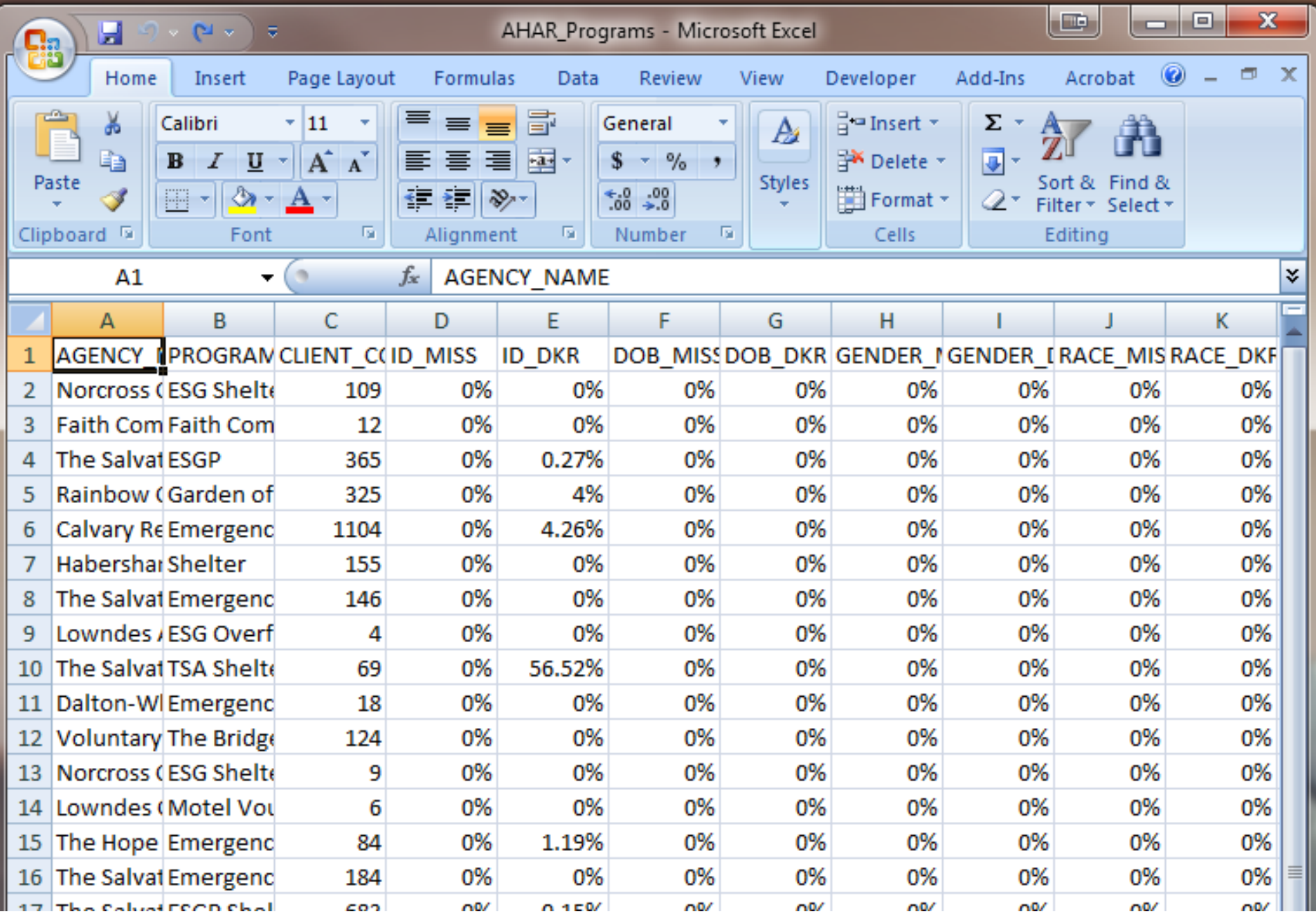
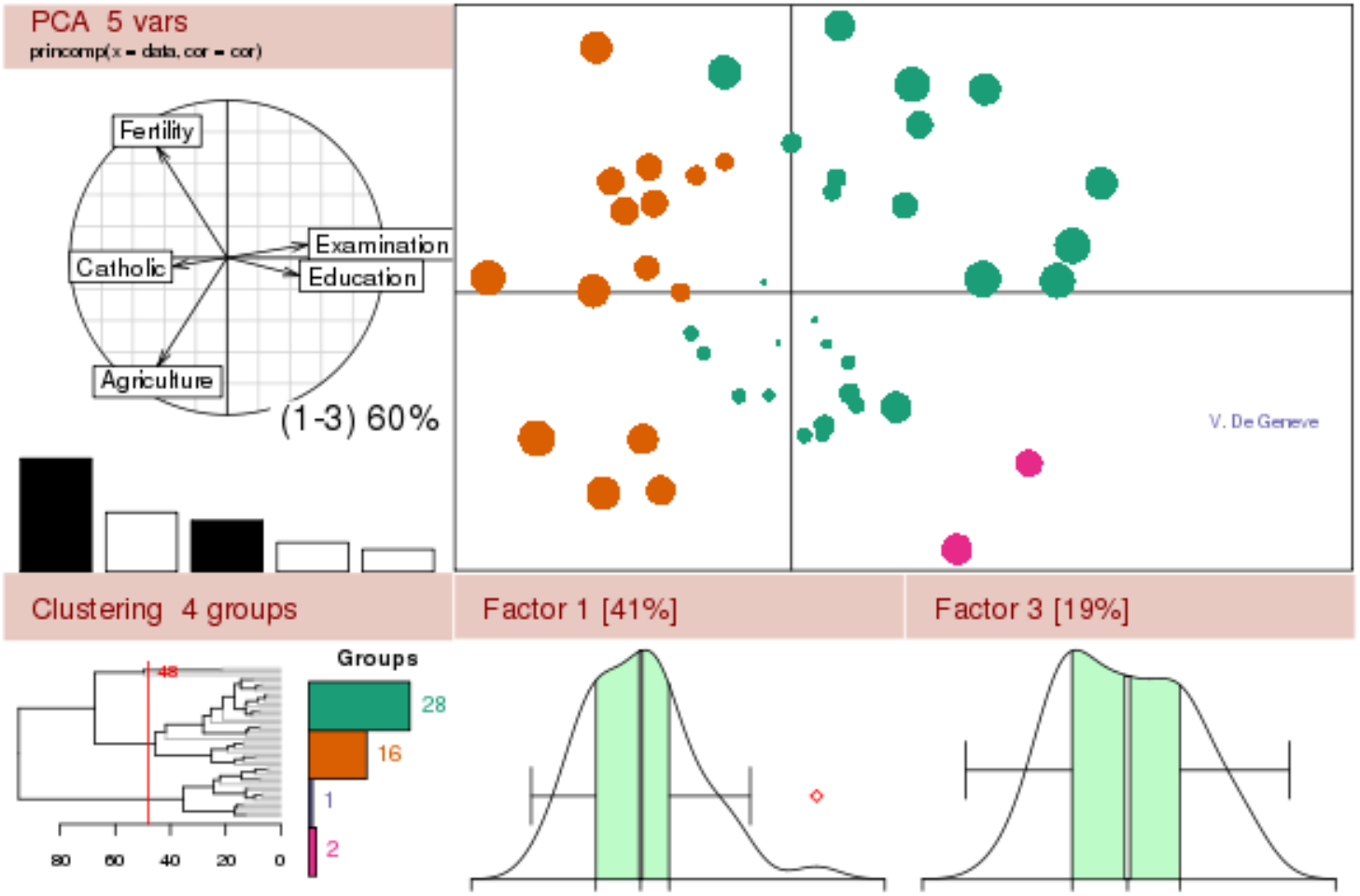
GROUP BY Agency_Name, Program_Name
")), file="AHAR_Programs.csv", quote=TRUE, sep=",", na="",row.names=FALSE, col.names=TRUE)

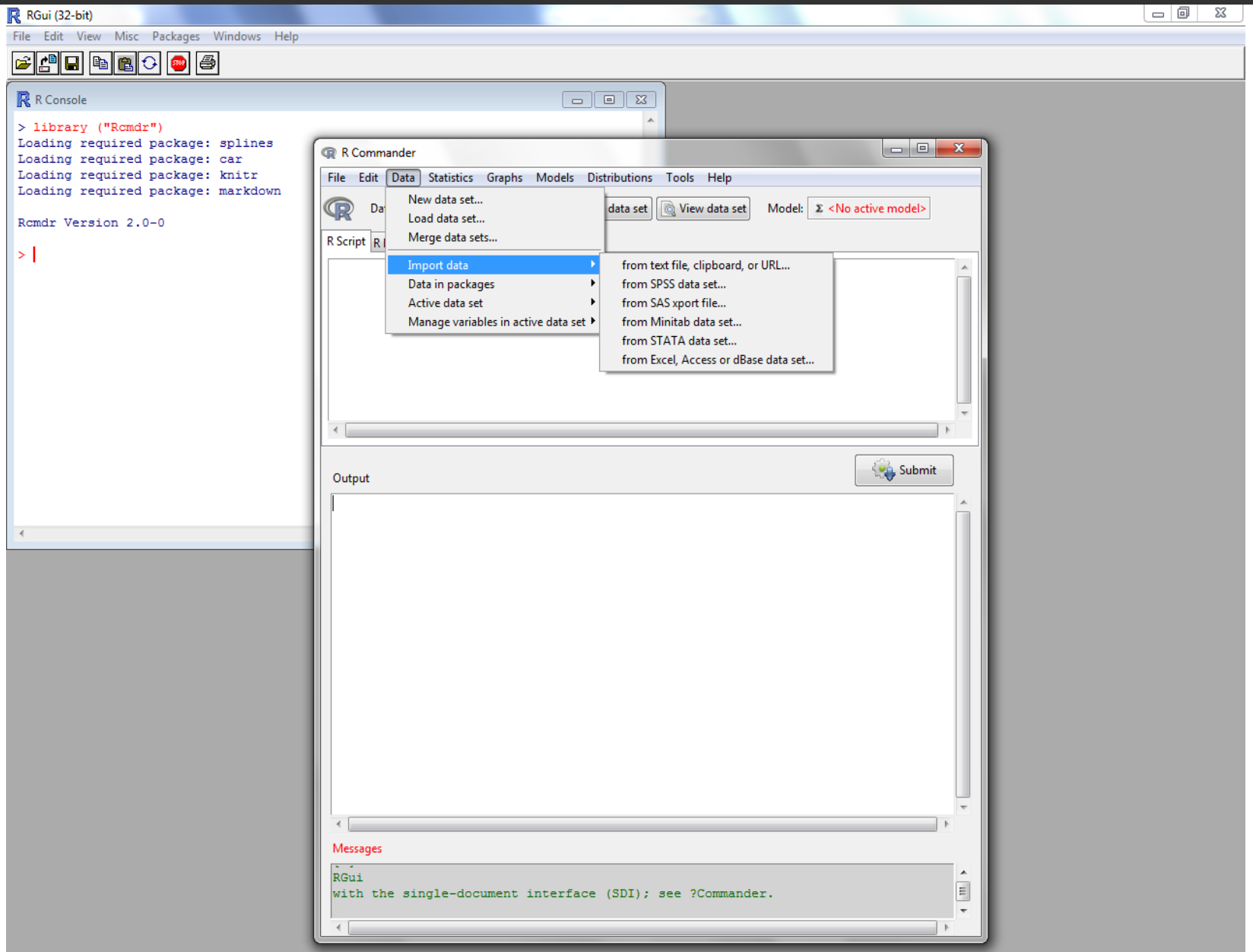


	A	B	C	D	E	F	G	H	I	J	K
1	AGENCY_	PROGRAM	CLIENT_C	ID_MISS	ID_DKR	DOB_MISS	DOB_DKR	GENDER_M	GENDER_D	RACE_MIS	RACE_DKR
2	Norcross (	ESG Shelte	109	0%	0%	0%	0%	0%	0%	0%	0%
3	Faith Com	Faith Com	12	0%	0%	0%	0%	0%	0%	0%	0%
4	The Salvat	ESGP	365	0%	0.27%	0%	0%	0%	0%	0%	0%
5	Rainbow (	Garden of	325	0%	4%	0%	0%	0%	0%	0%	0%
6	Calvary Re	Emergenc	1104	0%	4.26%	0%	0%	0%	0%	0%	0%
7	Habershar	Shelter	155	0%	0%	0%	0%	0%	0%	0%	0%
8	The Salvat	Emergenc	146	0%	0%	0%	0%	0%	0%	0%	0%
9	Lowndes A	ESG Overf	4	0%	0%	0%	0%	0%	0%	0%	0%
10	The Salvat	TSA Shelte	69	0%	56.52%	0%	0%	0%	0%	0%	0%
11	Dalton-Wh	Emergenc	18	0%	0%	0%	0%	0%	0%	0%	0%
12	Voluntary	The Bridge	124	0%	0%	0%	0%	0%	0%	0%	0%
13	Norcross (	ESG Shelte	9	0%	0%	0%	0%	0%	0%	0%	0%
14	Lowndes (	Motel Vou	6	0%	0%	0%	0%	0%	0%	0%	0%
15	The Hope	Emergenc	84	0%	1.19%	0%	0%	0%	0%	0%	0%
16	The Salvat	Emergenc	184	0%	0%	0%	0%	0%	0%	0%	0%
17	The Salvat	ESGP Shel	682	0%	0.15%	0%	0%	0%	0%	0%	0%

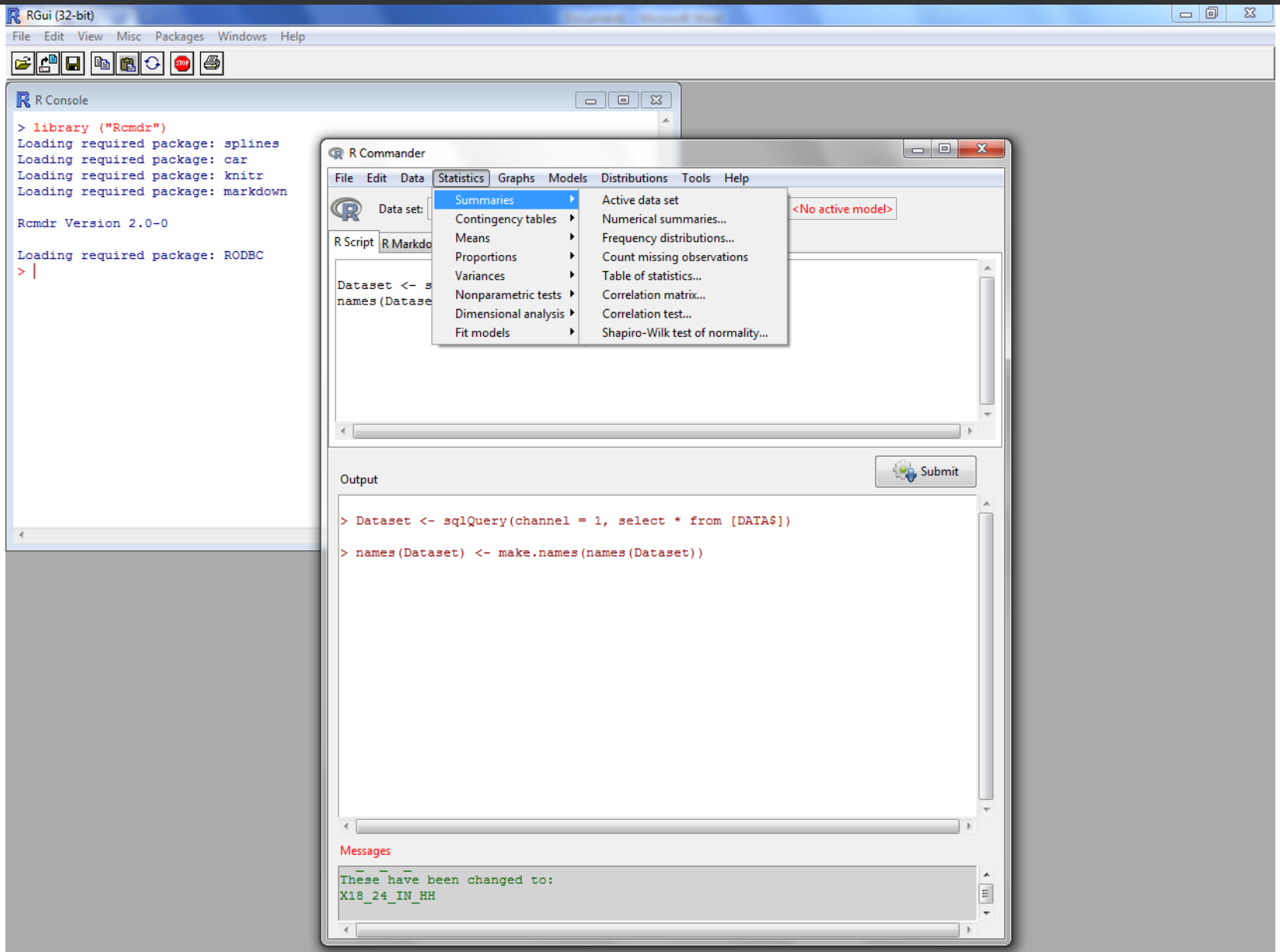
R has great charts



R Commander add-on



R Commander add-on



Any input?

- What would you like to see?

Part II
Making customized forms and reports

Wouldn't it be great if…

- You could create a nice-looking report with the latest HMIS data automatically mixed into it?

Instead of…

- Spending hours editing a Word document to replace old statistics with new statistics?

About FileMaker

- It's a relational database, like MS Access
  - FM is much more visual, but a little slower
- You can create your own layouts
  - Everything is "drag and drop"
- Any layout can be shared with someone else who has FileMaker
  - (You have to send them the whole database file)

HMIS DATA QUALITY REPORT FOR ESG

SAMPLE AGENCY

Sample Program (99999)

12/30/2011 - 4/12/2012

Missing and "Don't Know"/"Refused" Responses

Data Element	Applicable Records	M	DKR	% M+DKR
Total Clients	18			
Total Adults	15			
Total Unaccompanied Children	0			
Total Leavers	5			
First Name	18	0	5	27.78%
Last Name	18	0	5	27.78%
Social Security Number	18	3	1	22.22%
Date of Birth	18	1	0	5.56%
Race	18	0	0	0.00%
Ethnicity	18	0	0	0.00%
Gender	18	0	0	0.00%
Veteran Status	15	0	0	0.00%
Disabling Condition	18	0	0	0.00%
Residence Prior to Prog. Entry	15	0	0	0.00%
Zip Code of Last Permanent Address	15	0	0	0.00%
Housing Status (at entry)	18	0	0	0.00%
Income (at entry)	18	11	2	72.22%
Income (at exit)	5	0	1	20.00%
Non-Cash Benefits (at entry)	18	12	1	72.22%
Non-Cash Benefits (at exit)	5	0	1	20.00%
Physical Disability (at entry)	18	7	0	38.89%
Physical Disability (at exit)	5	1	0	20.00%
Developmental Disability (at entry)	18	11	0	61.11%
Developmental Disability (at exit)	5	1	0	20.00%
Chronic Health Condition (at entry)	18	11	0	61.11%
Chronic Health Condition (at exit)	5	1	0	20.00%
HIV/AIDS (at entry)	18	6	0	33.33%
HIV/AIDS (at exit)	5	1	0	20.00%
Mental Health (at entry)	18	11	0	61.11%
Mental Health (at exit)	5	1	0	20.00%
Substance Abuse (at entry)	18	10	0	55.56%
Substance Abuse (at exit)	5	1	0	20.00%
Domestic Violence (at entry)	15	8	0	53.33%
Domestic Violence (at exit)	15	0	0	0.00%
Destination	5	0	1	20.00%
Total	**426**	**97**	**17**	**26.76%**

Miscellaneous

Data Element	# or %
Total Beds	21
Average Bed Utilization*	98.31%
Excessive Length of Stay**	0.00%
Impartial or non-SSN ID	5.56%

* A very high or low bed utilization could be an indication that bed inventory is not accurate. High utilization could also be caused by a failure to discharge clients from HMIS, and low utilization could be caused by a failure to enroll clients in HMIS. The ideal bed utilization is between 65% and 105%.

** An excessive length of stay can be a sign that the client left the program without being discharged from HMIS. Please double-check the enrollment status of clients who are flagged under this category.

HMIS ASSESSMENT FOR SHELTER-PLUS-CARE

SAMPLE AGENCY

Sample Program (99999)

7/1/2012 - 10/2/2012

Missing and "Don't Know"/"Refused" Responses

Data Element	Applicable Records	M	DKR	% M+DKR
Total Clients	67			
Total Adults	67			
Total Unaccompanied Children	0			
Total Leavers	36			
First Name	67	0	0	0.00%
Last Name	67	0	0	0.00%
Social Security Number	67	0	0	0.00%
Date of Birth	67	0	0	0.00%
Race	67	0	0	0.00%
Ethnicity	67	0	0	0.00%
Gender	67	0	0	0.00%
Veteran Status	67	0	0	0.00%
Disabling Condition	67	0	0	0.00%
Residence Prior to Prog. Entry	67	0	0	0.00%
Zip Code of Last Permanent Address	67	0	0	0.00%
Housing Status (at entry)	67	0	0	0.00%
Income (at entry)	67	1	0	1.49%
Income (at exit)	36	0	0	0.00%
Non-Cash Benefits (at entry)	67	2	0	2.99%
Non-Cash Benefits (at exit)	36	0	0	0.00%
Physical Disability (at entry)	67	7	0	10.45%
Physical Disability (at exit)	36	2	0	5.56%
Developmental Disability (at entry)	67	9	0	13.43%
Developmental Disability (at exit)	36	3	0	8.33%
Chronic Health Condition (at entry)	67	9	0	13.43%
Chronic Health Condition (at exit)	36	3	0	8.33%
HIV/AIDS (at entry)	67	10	0	14.93%
HIV/AIDS (at exit)	36	3	0	8.33%
Mental Health (at entry)	67	7	0	10.45%
Mental Health (at exit)	36	3	0	8.33%
Substance Abuse (at entry)	67	8	0	11.94%
Substance Abuse (at exit)	36	2	0	5.56%
Domestic Violence (at entry)	67	9	0	13.43%
Domestic Violence (at exit)	67	0	0	0.00%
Destination	36	0	0	0.00%
Total	**1798**	**78**	**0**	**4.34%**

Miscellaneous

Data Element	# or %
Total Beds	40
Average Bed Utilization*	81.32%
Total Units	1
Total HH	65
Head of HH is not Disabled	9.23%
Stability Rate for Heads of HH	13.85%
% HH Maintained or Increased Income	67.69%

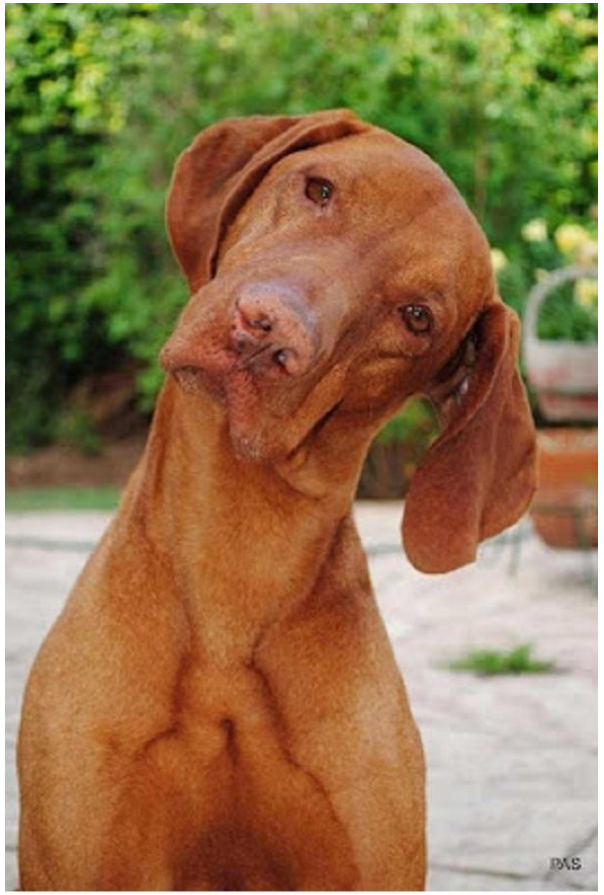
ESG APPLICATION REVIEW

7/1/2011 – 3/31/2012

APP MATCH	APP BEDS	TYPE	CLI	ENR	LTS	UC		ID Miss	ID DK/R		DEMOG Miss	DEMOG DK/R		RES Miss	RES DK/R		DEST Miss	DEST DK/R	INCOME Miss	INCOME DK/R	BENEFITS Miss	BENEFITS DK/R	B	RAW SCORE	APP SCORE	!!!
3	2	ES	44	44	0	0	4	0	1	8	0	0	8	0	0	8	0	3	28	1	28	0	1	34	4.00	✓
					0%	0%		0%	0%		0%	0%		0%	0%		0%	7%	34%	1%	34%	0%				
3	3	TH	29	29	3	0	2	0	0	8	0	0	8	0	0	8	0	3	0	0	0	0	2	34	4.00	✓
					10%	0%		0%	0%		0%	0%		0%	0%		0%	23%	0%	0%	0%	0%				
3	3	TH	41	41	0	0	4	0	0	8	0	0	8	0	0	8	0	0	3	0	3	0	3	37	4.00	✓
					0%	0%		0%	0%		0%	0%		0%	0%		0%	0%	5%	0%	5%	0%				
3	3	TH	43	43	0	0	4	0	2	7	0	0	8	0	0	8	0	2	0	0	0	0	3	36	4.00	✓
					0%	0%		0%	1%		0%	0%		0%	0%		0%	8%	0%	0%	0%	0%				
3	0	TH	239	239	0	0	4	3	69	6	4	0	8	2	0	6	0	1	257	12	254	17	1	28	2.29	✓
					0%	0%		0%	7%		0%	0%		1%	0%		0%	0%	58%	2%	57%	3%				
3	0	TH	125	126	0	0	4	0	0	8	1	1	8	2	3	7	0	6	29	30	30	28	1	31	3.14	✓
					0%	0%		0%	0%		0%	0%		0%	1%		0%	5%	12%	13%	13%	12%				
3	0	TH	56	57	0	0	4	0	0	8	0	0	8	0	0	8	0	2	7	18	6	21	1	32	3.43	✓
					0%	0%		0%	0%		0%	0%		0%	0%		0%	5%	7%	18%	6%	21%				
		ES	106	109	4	0	3	1	3	8	1	9	7	0	3	7	0	0	5	22	4	21	1	26	1.71	✓
					3%	0%		0%	0%		0%	1%		0%	1%		0%	0%	2%	11%	2%	10%				
1.5	3	TH	39	43	0	0	4	1	0	6	0	0	8	1	4	5	0	1	6	8	7	8	1	28.5	2.43	✓
					0%	0%		1%	0%		0%	0%		1%	4%		0%	2%	7%	9%	8%	9%				
1.5	3	ES	17	18	0	0	4	0	0	8	0	1	7	0	0	8	0	0	0	1	1	1	3	34.5	4.00	✓
					0%	0%		0%	0%		0%	1%		0%	0%		0%	0%	0%	2%	2%	2%				
0	0	ES	23	25	0	0	4	0	2	7	0	0	8	0	0	8	0	0	13	9	14	9	1	28	2.29	✓
					0%	0%		0%	2%		0%	0%		0%	0%		0%	0%	28%	20%	31%	20%				
1.5	0	TH	34	35	0	0	4	0	0	8	0	0	8	0	0	8	0	6	10	1	9	3	0	29.5	2.71	✓
					0%	0%		0%	0%		0%	0%		0%	0%		0%	23%	16%	1%	14%	4%				

Any input?

- What would you like to see?



Part III
Suggested tools for client intake

Picture this scenario

- You sit down with a homeless client.
- You log into your computer.
- You run a search for your client.
- In 10 seconds, a screen pops up that shows you…
  - His chronic homelessness status
  - His special needs
  - A historical timeline of his homeless experience
  - Other helpful "big picture" information

Re-introducing FileMaker

- FileMaker is the software being used for this demonstration.
- Its ease of creating and distributing layouts make it ideal.

Program Enrollment #2

ENROLLMENT INFORMATION

General

Agency: [Redacted]

Program: [Redacted]

Program type: ES

Entry

Entered program on: 6/8/2009

Prior night's residence:

Disabling condition at entry: No

Exit

Exited program on: 7/6/2009

Destination at exit: Other

Destination type: Unknown

CLIENT HOMELESS STATUS

Chronic Status (as of entry): **Not Chronic**

This enrollment occurs during occasion #: 1

This occasion began on: 3/6/2009

Estimated length of this homeless occasion (as of entry): 94 days

Estimated length of this homeless occasion (as of exit): 122 days

Client exited homelessness after this enrollment: No

Days until next confirmed homeless experience: 0 days

Program Enrollment #13

ENROLLMENT INFORMATION

General

Agency: [Redacted]

Program: [Redacted]

Program type: ES

Entry

Entered program on: 2/8/2013

Prior night's residence:

Disabling condition at entry: Yes

Exit

Exited program on:

Destination at exit:

Destination type:

CLIENT HOMELESS STATUS

Chronic Status (as of entry): CHRONIC

This enrollment occurs during occasion #: 4

This occasion began on: 1/24/2012

Estimated length of this homeless occasion (as of entry): 381 days

Estimated length of this homeless occasion (as of exit): ? days

Client exited homelessness after this enrollment: No

Days until next confirmed homeless experience: 0 days

Any input?

- What would you like to see?

Get closer to using these tools

- Install the Data Connect driver onto your computer
- Download R and/or obtain FileMaker
- Attend the Data Analyst training in November (either in person or via GoToMeeting)
- Contact me at jason.rodriguez@dca.ga.gov if you have any additional questions

WE WANT THIS!

<u>NOT</u> THIS!