setwd("C:/Users/ragav /OneDrive/Documents/Rprojects")  
require("tidyverse")

## Loading required package: tidyverse

## -- Attaching packages -------------------------------------------------------------------------------- tidyverse 1.2.1 --

## v ggplot2 3.1.1 v purrr 0.3.2   
## v tibble 2.1.1 v dplyr 0.8.0.1  
## v tidyr 0.8.3 v stringr 1.4.0   
## v readr 1.3.1 v forcats 0.4.0

## -- Conflicts ----------------------------------------------------------------------------------- tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

require(sqldf)

## Loading required package: sqldf

## Loading required package: gsubfn

## Loading required package: proto

## Loading required package: RSQLite

diagnosis= read.csv('DiagnosisSample01.csv')  
diagnosis= as\_tibble(diagnosis)  
treatment= read.csv('TreatmentSample01.csv')  
treatment= as\_tibble(treatment)  
diagnosis

## # A tibble: 44 x 5  
## PatientID DiagnosisDate DiagnosisCode Diagnosis IsCancerDiagnosis  
## <int> <fct> <dbl> <fct> <fct>   
## 1 2634 2011-02-19 286. Anemia False   
## 2 5657 2012-06-07 286. Anemia False   
## 3 7937 2013-01-06 286. Anemia False   
## 4 8615 2013-07-18 285. Anemia False   
## 5 4354 2012-02-04 285. Anemia False   
## 6 6922 2012-11-01 286. Anemia False   
## 7 7230 2013-01-06 286. Anemia False   
## 8 2038 2010-01-21 175. Breast Cancer True   
## 9 2120 2010-01-09 174. Breast Cancer True   
## 10 2407 2010-06-13 175. Breast Cancer True   
## # ... with 34 more rows

treatment

## # A tibble: 714 x 3  
## PatientID TreatmentDate DrugCode  
## <int> <fct> <fct>   
## 1 2038 2010-01-24 A   
## 2 2038 2010-01-27 A   
## 3 2038 2010-01-30 A   
## 4 2038 2010-02-02 A   
## 5 2038 2010-02-06 A   
## 6 2038 2010-02-11 A   
## 7 2038 2010-02-18 A   
## 8 2038 2010-02-20 A   
## 9 2120 2010-01-25 A   
## 10 2120 2010-01-25 B   
## # ... with 704 more rows

#Question 1: First, the clinic would like to know for which diseases they are seeing patients.  
unique(diagnosis$Diagnosis)

## [1] Anemia Breast Cancer Colon Cancer Hypertension Hypertension   
## 5 Levels: Anemia Breast Cancer Colon Cancer ... Hypertension

#Ans: Anemia ,Breast Cancer,Colon Cancer and Hypertension are the diseases the clinics sees patients   
  
#1a) Which types of cancer does the clinic see patients for?  
only\_cancer=filter(diagnosis,IsCancerDiagnosis=='True')  
only\_cancer

## # A tibble: 33 x 5  
## PatientID DiagnosisDate DiagnosisCode Diagnosis IsCancerDiagnosis  
## <int> <fct> <dbl> <fct> <fct>   
## 1 2038 2010-01-21 175. Breast Cancer True   
## 2 2120 2010-01-09 174. Breast Cancer True   
## 3 2407 2010-06-13 175. Breast Cancer True   
## 4 2425 2010-12-15 175. Breast Cancer True   
## 5 2462 2011-01-07 175. Breast Cancer True   
## 6 2763 2011-04-19 174. Breast Cancer True   
## 7 3757 2011-10-11 174. Breast Cancer True   
## 8 3948 2011-12-18 175. Breast Cancer True   
## 9 4256 2011-11-07 174. Breast Cancer True   
## 10 4354 2012-02-04 175. Breast Cancer True   
## # ... with 23 more rows

only\_cancer\_type=distinct(only\_cancer,Diagnosis)  
only\_cancer\_type

## # A tibble: 2 x 1  
## Diagnosis   
## <fct>   
## 1 Breast Cancer  
## 2 Colon Cancer

#only\_cancer\_type would be the subset which has only cancer diagnosis, will be used for future analysis  
  
#Ans:Breast Cancer and Colon Cancer  
  
#1b) How many patients does the clinic see for each cancer type?  
  
sqldf("SELECT COUNT(\*) AS Patient\_Count,Diagnosis FROM only\_cancer GROUP BY Diagnosis ")

## Patient\_Count Diagnosis  
## 1 22 Breast Cancer  
## 2 11 Colon Cancer

#Ans 22 Breast Cancer patients and 11 colon Cancer patients  
  
  
#2The clinic wants to know how long it takes for patients to start therapy after being diagnosed, which they consider #to be helpful in understanding the quality of care for the patients  
#2a) How long after being diagnosed do cancer patients start treatment for each cancer type?  
  
tab=sqldf("select c.PatientID,c.DiagnosisDate, t.TreatmentDate from only\_cancer c INNER JOIN treatment t ON c.PatientID =t.PatientID GROUP BY c.PatientID,c.DiagnosisDate,t.TreatmentDate" )  
  
tab # Just an inner join which joins only\_cancer and treatment dataset using patient ID

## PatientID DiagnosisDate TreatmentDate  
## 1 2038 2010-01-21 2010-01-24  
## 2 2038 2010-01-21 2010-01-27  
## 3 2038 2010-01-21 2010-01-30  
## 4 2038 2010-01-21 2010-02-02  
## 5 2038 2010-01-21 2010-02-06  
## 6 2038 2010-01-21 2010-02-11  
## 7 2038 2010-01-21 2010-02-18  
## 8 2038 2010-01-21 2010-02-20  
## 9 2120 2010-01-09 2010-01-25  
## 10 2120 2010-01-09 2010-01-26  
## 11 2120 2010-01-09 2010-01-27  
## 12 2120 2010-01-09 2010-01-29  
## 13 2120 2010-01-09 2010-02-01  
## 14 2120 2010-01-09 2010-02-04  
## 15 2120 2010-01-09 2010-02-07  
## 16 2120 2010-01-09 2010-02-10  
## 17 2120 2010-01-09 2010-02-14  
## 18 2120 2010-01-09 2010-02-18  
## 19 2120 2010-01-09 2010-02-22  
## 20 2120 2010-01-09 2010-02-27  
## 21 2120 2010-01-09 2010-03-02  
## 22 2407 2010-06-13 2010-06-19  
## 23 2407 2010-06-13 2010-06-25  
## 24 2407 2010-06-13 2010-07-01  
## 25 2407 2010-06-13 2010-07-07  
## 26 2407 2010-06-13 2010-07-13  
## 27 2407 2010-06-13 2010-07-19  
## 28 2407 2010-06-13 2010-07-25  
## 29 2407 2010-06-13 2010-07-31  
## 30 2407 2010-06-13 2010-08-03  
## 31 2425 2010-12-15 2010-12-19  
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## 34 2425 2010-12-15 2010-12-28  
## 35 2425 2010-12-15 2010-12-31  
## 36 2425 2010-12-15 2011-01-03  
## 37 2425 2010-12-15 2011-01-06  
## 38 2425 2010-12-15 2011-01-09  
## 39 2425 2010-12-15 2011-01-12  
## 40 2425 2010-12-15 2011-01-15  
## 41 2425 2010-12-15 2011-01-18  
## 42 2425 2010-12-15 2011-01-21  
## 43 2425 2010-12-15 2011-01-24  
## 44 2425 2010-12-15 2011-01-27  
## 45 2425 2010-12-15 2011-01-30  
## 46 2425 2010-12-15 2011-02-02  
## 47 2425 2010-12-15 2011-02-08  
## 48 2462 2011-01-07 2011-01-11  
## 49 2462 2011-01-07 2011-01-14  
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## 54 2462 2011-01-07 2011-01-29  
## 55 2462 2011-01-07 2011-02-01  
## 56 2462 2011-01-07 2011-02-04  
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## 58 2462 2011-01-07 2011-02-10  
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## 60 2462 2011-01-07 2011-02-16  
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masterdata

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## 697 6922 2012-11-07 2013-01-10 C  
## 698 6922 2012-11-07 2013-01-17 C  
## 699 6922 2012-11-07 2013-01-24 C  
## 700 6922 2012-11-07 2013-01-31 C  
## 701 6922 2012-11-07 2013-02-07 C  
## 702 6922 2012-11-07 2013-02-12 C  
## 703 7230 2013-01-02 2013-01-09 C  
## 704 7230 2013-01-02 2013-01-16 C  
## 705 7230 2013-01-02 2013-01-23 C  
## 706 7230 2013-01-02 2013-01-30 C  
## 707 7230 2013-01-02 2013-02-06 C  
## 708 7230 2013-01-02 2013-02-13 C  
## 709 7230 2013-01-02 2013-02-20 C  
## 710 7230 2013-01-02 2013-02-27 C  
## 711 7230 2013-01-02 2013-03-06 C  
## 712 7230 2013-01-02 2013-03-13 C  
## 713 7230 2013-01-02 2013-03-20 C  
## 714 7230 2013-01-02 2013-03-27 C  
## 715 7230 2013-01-02 2013-04-03 C  
## 716 7242 2013-01-11 2013-01-23 B  
## 717 7242 2013-01-11 2013-01-29 B  
## 718 7242 2013-01-11 2013-02-04 B  
## 719 7242 2013-01-11 2013-02-10 B  
## 720 7242 2013-01-11 2013-02-16 B  
## 721 7242 2013-01-11 2013-02-22 B  
## 722 7242 2013-01-11 2013-02-28 B  
## 723 7242 2013-01-11 2013-03-06 B  
## 724 7242 2013-01-11 2013-03-12 B  
## 725 7242 2013-01-11 2013-03-18 B  
## 726 7242 2013-01-11 2013-03-24 B  
## 727 7242 2013-01-11 2013-03-30 B  
## 728 7242 2013-01-11 2013-04-05 B  
## 729 7242 2013-01-11 2013-04-11 B  
## 730 7242 2013-01-11 2013-04-17 B  
## 731 7242 2013-01-11 2013-04-23 B  
## 732 7242 2013-01-11 2013-04-29 B  
## 733 7242 2013-01-11 2013-05-05 B  
## 734 7242 2013-01-11 2013-05-11 B  
## 735 7242 2013-01-11 2013-05-17 B  
## 736 7242 2013-01-11 2013-05-23 C  
## 737 7242 2013-01-11 2013-05-29 C  
## 738 7242 2013-01-11 2013-06-04 C  
## 739 7242 2013-01-11 2013-06-10 C  
## 740 7242 2013-01-11 2013-06-16 C  
## 741 7242 2013-01-11 2013-06-22 C  
## 742 7242 2013-01-11 2013-06-28 C  
## 743 7242 2013-01-11 2013-07-04 C  
## 744 7242 2013-01-11 2013-07-10 C  
## 745 7242 2013-01-11 2013-07-16 C  
## 746 7242 2013-01-11 2013-07-22 C  
## 747 7242 2013-01-11 2013-07-28 C  
## 748 7242 2013-01-11 2013-08-03 C  
## 749 7242 2013-01-11 2013-08-09 C  
## 750 7242 2013-01-11 2013-08-15 C  
## 751 7242 2013-01-11 2013-08-21 C  
## 752 7242 2013-01-11 2013-08-27 C  
## 753 7242 2013-01-11 2013-09-02 C  
## 754 7242 2013-01-11 2013-09-08 C  
## 755 7242 2013-01-11 2013-09-14 C  
## 756 7242 2013-01-11 2013-09-20 C  
## 757 7242 2013-01-11 2013-10-10 C  
## 758 7242 2013-01-11 2013-10-30 C  
## 759 7242 2013-01-11 2013-11-19 C  
## 760 7242 2013-01-11 2013-12-09 C  
## 761 7242 2013-01-11 2013-12-29 C  
## 762 7242 2013-01-11 2014-01-18 C  
## 763 7242 2013-01-11 2014-02-07 C  
## 764 7242 2013-01-11 2014-02-27 C  
## 765 7242 2013-01-11 2014-03-19 C  
## 766 7242 2013-01-11 2014-04-08 C  
## 767 7242 2013-01-11 2014-04-28 C  
## 768 7242 2013-01-11 2014-05-18 C  
## 769 7242 2013-01-11 2014-06-07 C  
## 770 7242 2013-01-11 2014-06-27 C  
## 771 7242 2013-01-11 2014-07-17 C  
## 772 7242 2013-01-11 2014-08-06 C  
## 773 7242 2013-01-11 2014-08-26 C  
## 774 7242 2013-01-11 2014-09-15 C  
## 775 7242 2013-01-11 2014-10-05 C  
## 776 7242 2013-01-11 2014-10-25 C  
## 777 3449 2011-08-26 2011-09-13 C  
## 778 3449 2011-08-26 2011-09-17 C  
## 779 3449 2011-08-26 2011-09-21 C  
## 780 3449 2011-08-26 2011-09-25 C  
## 781 3449 2011-08-26 2011-09-29 C  
## 782 3449 2011-08-26 2011-10-03 C  
## 783 3449 2011-08-26 2011-10-07 C  
## 784 3449 2011-08-26 2011-10-11 C  
## 785 3449 2011-08-26 2011-10-15 C  
## 786 3449 2011-08-26 2011-10-19 C  
## 787 3449 2011-08-26 2011-10-23 C  
## 788 3449 2011-08-26 2011-10-27 C  
## 789 3449 2011-08-26 2011-10-31 C  
## 790 3449 2011-08-26 2011-11-04 C  
## 791 3449 2011-08-26 2011-11-08 C  
## 792 3449 2011-08-26 2011-11-18 C  
## 793 3757 2011-10-08 2011-10-22 C  
## 794 3757 2011-10-08 2011-10-27 C  
## 795 3757 2011-10-08 2011-11-01 C  
## 796 3757 2011-10-08 2011-11-06 C  
## 797 3757 2011-10-08 2011-11-11 C  
## 798 3757 2011-10-08 2011-11-16 C  
## 799 3757 2011-10-08 2011-11-21 C  
## 800 3757 2011-10-08 2011-11-26 C  
## 801 3757 2011-10-08 2011-12-01 C  
## 802 3757 2011-10-08 2011-12-06 C  
## 803 3757 2011-10-08 2011-12-11 C  
## 804 3757 2011-10-08 2011-12-16 C  
## 805 3757 2011-10-08 2011-12-21 C  
## 806 3757 2011-10-08 2011-12-26 C  
## 807 3757 2011-10-08 2011-12-31 C  
## 808 3757 2011-10-08 2012-01-05 C  
## 809 3757 2011-10-08 2012-01-10 C  
## 810 3757 2011-10-08 2012-01-17 C

#final below SQL query gets the treatment start date for diagnosed patients   
final=sqldf("select PatientID,DiagnosisDate,min(TreatmentDate) as TreatmentDate from tab group by patientID")  
final

## PatientID DiagnosisDate TreatmentDate  
## 1 2038 2010-01-21 2010-01-24  
## 2 2120 2010-01-09 2010-01-25  
## 3 2407 2010-06-13 2010-06-19  
## 4 2425 2010-12-15 2010-12-19  
## 5 2462 2011-01-07 2011-01-11  
## 6 2763 2011-04-19 2011-04-23  
## 7 2770 2011-04-06 2011-04-22  
## 8 3095 2011-07-01 2011-07-13  
## 9 3449 2011-08-26 2011-09-13  
## 10 3757 2011-10-08 2011-10-22  
## 11 3948 2011-12-18 2011-12-22  
## 12 4256 2011-11-07 2011-11-12  
## 13 4354 2012-02-04 2012-02-09  
## 14 4374 2012-03-20 2012-03-25  
## 15 4692 2012-04-27 2012-04-30  
## 16 5259 2012-05-13 2012-05-17  
## 17 6281 2012-08-12 2012-08-16  
## 18 6321 2012-09-06 2012-09-10  
## 19 6837 2012-10-08 2012-10-25  
## 20 6877 2012-11-16 2012-12-03  
## 21 6889 2012-11-17 2012-11-20  
## 22 6922 2012-11-07 2012-11-22  
## 23 7230 2013-01-02 2013-01-09  
## 24 7242 2013-01-11 2013-01-23  
## 25 7796 2013-01-16 2013-01-21  
## 26 7976 2013-03-06 2013-03-11  
## 27 9331 2013-08-23 2013-08-29

diff\_in\_days = round(difftime(final$TreatmentDate,final$DiagnosisDate, units = "days")) # days  
diff\_in\_days

## Time differences in days  
## [1] 3 16 6 4 4 4 16 12 18 14 4 5 5 5 3 4 4 4 17 17 3 15 7  
## [24] 12 5 5 6

final=cbind(final,diff\_in\_days)  
final

## PatientID DiagnosisDate TreatmentDate diff\_in\_days  
## 1 2038 2010-01-21 2010-01-24 3 days  
## 2 2120 2010-01-09 2010-01-25 16 days  
## 3 2407 2010-06-13 2010-06-19 6 days  
## 4 2425 2010-12-15 2010-12-19 4 days  
## 5 2462 2011-01-07 2011-01-11 4 days  
## 6 2763 2011-04-19 2011-04-23 4 days  
## 7 2770 2011-04-06 2011-04-22 16 days  
## 8 3095 2011-07-01 2011-07-13 12 days  
## 9 3449 2011-08-26 2011-09-13 18 days  
## 10 3757 2011-10-08 2011-10-22 14 days  
## 11 3948 2011-12-18 2011-12-22 4 days  
## 12 4256 2011-11-07 2011-11-12 5 days  
## 13 4354 2012-02-04 2012-02-09 5 days  
## 14 4374 2012-03-20 2012-03-25 5 days  
## 15 4692 2012-04-27 2012-04-30 3 days  
## 16 5259 2012-05-13 2012-05-17 4 days  
## 17 6281 2012-08-12 2012-08-16 4 days  
## 18 6321 2012-09-06 2012-09-10 4 days  
## 19 6837 2012-10-08 2012-10-25 17 days  
## 20 6877 2012-11-16 2012-12-03 17 days  
## 21 6889 2012-11-17 2012-11-20 3 days  
## 22 6922 2012-11-07 2012-11-22 15 days  
## 23 7230 2013-01-02 2013-01-09 7 days  
## 24 7242 2013-01-11 2013-01-23 12 days  
## 25 7796 2013-01-16 2013-01-21 5 days  
## 26 7976 2013-03-06 2013-03-11 5 days  
## 27 9331 2013-08-23 2013-08-29 6 days

#Ans: Final data frame with diff\_in\_days shows within how many days the patients start their treatment  
  
  
  
#2b) Are there any patients which are diagnosed but not treated at the practice?  
  
sqldf("select patientid from only\_cancer where PatientID NOT IN(SELECT PatientID FROM treatment) " )

## [1] PatientID  
## <0 rows> (or 0-length row.names)

#Ans From the above query we can see no rows returned, so there are no patients who are diagonised and not treated.  
  
  
  
#Question 3: After being treated with a first line of treatment (a drug or combination of drugs), what proportion of #all cancer patients go on to be treated with a second line of treatment?  
  
prop =sqldf("SELECT PatientID,COUNT(TreatmentDate) AS TreatmentCount   
 FROM masterdata  
 GROUP BY PatientID having TreatmentCount <=1")  
  
prop

## [1] PatientID TreatmentCount  
## <0 rows> (or 0-length row.names)

#Ans: From the above query we can see there are no patients with only first line of treatement.  
#i.e All the patients went for multiple line of treatment  
  
  
#Question 4: How does each drug used at the clinic compare in terms of its duration of therapy?  
  
  
drug=sqldf("select PatientID,min(TreatmentDate)as TreatmentDate\_start,Max(TreatmentDate)as TreatmentDate\_End,DrugCode from masterdata group by PatientID,DrugCode")  
  
drug

## PatientID TreatmentDate\_start TreatmentDate\_End DrugCode  
## 1 2038 2010-01-24 2010-02-20 A  
## 2 2120 2010-01-25 2010-03-02 A  
## 3 2120 2010-01-25 2010-03-02 B  
## 4 2407 2010-06-19 2010-08-03 A  
## 5 2407 2010-06-19 2010-08-03 B  
## 6 2425 2010-12-19 2011-02-08 A  
## 7 2425 2010-12-19 2011-02-08 B  
## 8 2462 2011-01-11 2011-03-04 A  
## 9 2462 2011-01-11 2011-03-04 B  
## 10 2763 2011-04-23 2011-06-22 A  
## 11 2763 2011-04-23 2011-06-22 B  
## 12 2770 2011-04-22 2011-06-19 A  
## 13 2770 2011-04-22 2011-06-19 B  
## 14 3095 2011-07-13 2011-09-12 A  
## 15 3449 2011-09-13 2011-11-18 C  
## 16 3757 2011-10-22 2012-01-17 C  
## 17 3948 2011-12-22 2012-02-22 A  
## 18 3948 2012-03-03 2012-05-27 B  
## 19 4256 2011-11-12 2012-01-19 C  
## 20 4354 2012-02-09 2012-04-19 C  
## 21 4374 2012-03-25 2012-06-06 C  
## 22 4692 2012-04-30 2012-06-11 A  
## 23 4692 2012-04-30 2012-06-11 B  
## 24 4692 2012-06-16 2012-09-21 C  
## 25 5259 2012-05-17 2012-07-19 A  
## 26 5259 2012-05-17 2012-07-19 B  
## 27 5259 2012-07-24 2012-10-30 C  
## 28 6281 2012-08-16 2012-10-24 A  
## 29 6281 2012-08-16 2012-10-24 B  
## 30 6281 2012-10-29 2013-02-05 C  
## 31 6321 2012-09-10 2012-11-19 A  
## 32 6321 2012-09-10 2012-11-19 B  
## 33 6321 2012-11-24 2013-03-08 C  
## 34 6837 2012-10-25 2013-01-13 B  
## 35 6837 2013-01-20 2013-05-06 C  
## 36 6877 2012-12-03 2013-02-15 C  
## 37 6889 2012-11-20 2013-02-03 C  
## 38 6922 2012-11-22 2013-02-12 C  
## 39 7230 2013-01-09 2013-04-03 C  
## 40 7242 2013-01-23 2013-05-17 B  
## 41 7242 2013-05-23 2014-10-25 C  
## 42 7796 2013-01-21 2013-03-31 A  
## 43 7976 2013-03-11 2013-05-27 A  
## 44 9331 2013-08-29 2013-11-27 C

Drug\_Duration = round(difftime(drug$TreatmentDate\_End,drug$TreatmentDate\_start, units = "days")) # days  
Drug\_Duration

## Time differences in days  
## [1] 27 36 36 45 45 51 51 52 52 60 60 58 58 61 66 87 62  
## [18] 85 68 70 73 42 42 97 63 63 98 69 69 99 70 70 104 80  
## [35] 106 74 75 82 84 114 520 69 77 90

drug=cbind(drug,Drug\_Duration)  
drug

## PatientID TreatmentDate\_start TreatmentDate\_End DrugCode Drug\_Duration  
## 1 2038 2010-01-24 2010-02-20 A 27 days  
## 2 2120 2010-01-25 2010-03-02 A 36 days  
## 3 2120 2010-01-25 2010-03-02 B 36 days  
## 4 2407 2010-06-19 2010-08-03 A 45 days  
## 5 2407 2010-06-19 2010-08-03 B 45 days  
## 6 2425 2010-12-19 2011-02-08 A 51 days  
## 7 2425 2010-12-19 2011-02-08 B 51 days  
## 8 2462 2011-01-11 2011-03-04 A 52 days  
## 9 2462 2011-01-11 2011-03-04 B 52 days  
## 10 2763 2011-04-23 2011-06-22 A 60 days  
## 11 2763 2011-04-23 2011-06-22 B 60 days  
## 12 2770 2011-04-22 2011-06-19 A 58 days  
## 13 2770 2011-04-22 2011-06-19 B 58 days  
## 14 3095 2011-07-13 2011-09-12 A 61 days  
## 15 3449 2011-09-13 2011-11-18 C 66 days  
## 16 3757 2011-10-22 2012-01-17 C 87 days  
## 17 3948 2011-12-22 2012-02-22 A 62 days  
## 18 3948 2012-03-03 2012-05-27 B 85 days  
## 19 4256 2011-11-12 2012-01-19 C 68 days  
## 20 4354 2012-02-09 2012-04-19 C 70 days  
## 21 4374 2012-03-25 2012-06-06 C 73 days  
## 22 4692 2012-04-30 2012-06-11 A 42 days  
## 23 4692 2012-04-30 2012-06-11 B 42 days  
## 24 4692 2012-06-16 2012-09-21 C 97 days  
## 25 5259 2012-05-17 2012-07-19 A 63 days  
## 26 5259 2012-05-17 2012-07-19 B 63 days  
## 27 5259 2012-07-24 2012-10-30 C 98 days  
## 28 6281 2012-08-16 2012-10-24 A 69 days  
## 29 6281 2012-08-16 2012-10-24 B 69 days  
## 30 6281 2012-10-29 2013-02-05 C 99 days  
## 31 6321 2012-09-10 2012-11-19 A 70 days  
## 32 6321 2012-09-10 2012-11-19 B 70 days  
## 33 6321 2012-11-24 2013-03-08 C 104 days  
## 34 6837 2012-10-25 2013-01-13 B 80 days  
## 35 6837 2013-01-20 2013-05-06 C 106 days  
## 36 6877 2012-12-03 2013-02-15 C 74 days  
## 37 6889 2012-11-20 2013-02-03 C 75 days  
## 38 6922 2012-11-22 2013-02-12 C 82 days  
## 39 7230 2013-01-09 2013-04-03 C 84 days  
## 40 7242 2013-01-23 2013-05-17 B 114 days  
## 41 7242 2013-05-23 2014-10-25 C 520 days  
## 42 7796 2013-01-21 2013-03-31 A 69 days  
## 43 7976 2013-03-11 2013-05-27 A 77 days  
## 44 9331 2013-08-29 2013-11-27 C 90 days

drug$Drug\_Duration = as.numeric(drug$Drug\_Duration)  
  
drugdays=sqldf("select Drug\_Duration,DrugCode from drug order by DrugCode,Drug\_Duration asc")  
drugdays

## Drug\_Duration DrugCode  
## 1 27 A  
## 2 36 A  
## 3 42 A  
## 4 45 A  
## 5 51 A  
## 6 52 A  
## 7 58 A  
## 8 60 A  
## 9 61 A  
## 10 62 A  
## 11 63 A  
## 12 69 A  
## 13 69 A  
## 14 70 A  
## 15 77 A  
## 16 36 B  
## 17 42 B  
## 18 45 B  
## 19 51 B  
## 20 52 B  
## 21 58 B  
## 22 60 B  
## 23 63 B  
## 24 69 B  
## 25 70 B  
## 26 80 B  
## 27 85 B  
## 28 114 B  
## 29 66 C  
## 30 68 C  
## 31 70 C  
## 32 73 C  
## 33 74 C  
## 34 75 C  
## 35 82 C  
## 36 84 C  
## 37 87 C  
## 38 90 C  
## 39 97 C  
## 40 98 C  
## 41 99 C  
## 42 104 C  
## 43 106 C  
## 44 520 C

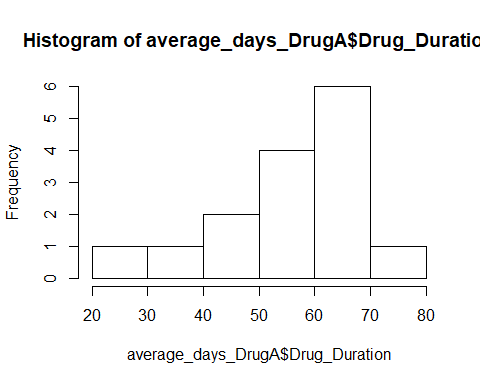
#We can see the Drug duaration for each drug type from the above query in ascending order for multiple patients  
  
#To see duration the therapy went for each Drug, we can see the average if there are no Outliers, else we have to look for the median for right prediction.  
  
#Subset which will have only duration for Drug type A  
  
average\_days\_DrugA = subset(drugdays,drugdays$DrugCode=='A')  
  
DrugA=sum(average\_days\_DrugA$Drug\_Duration)/count(average\_days\_DrugA)  
DrugA

## n  
## 1 56.13333

median(average\_days\_DrugA$Drug\_Duration)

## [1] 60

hist(average\_days\_DrugA$Drug\_Duration)



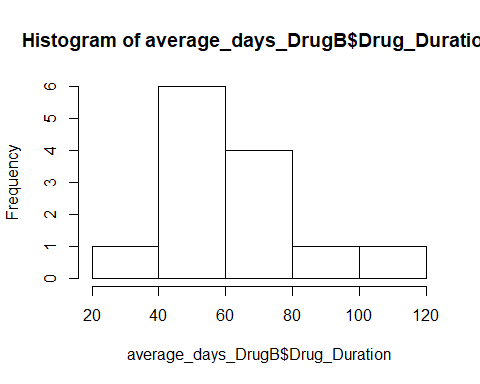
#Subset which will have only duration for Drug type B  
  
average\_days\_DrugB = subset(drugdays,drugdays$DrugCode=='B')  
  
DrugB=sum(average\_days\_DrugB$Drug\_Duration)/count(average\_days\_DrugB)  
DrugB

## n  
## 1 63.46154

median(average\_days\_DrugB$Drug\_Duration)

## [1] 60

hist(average\_days\_DrugB$Drug\_Duration)



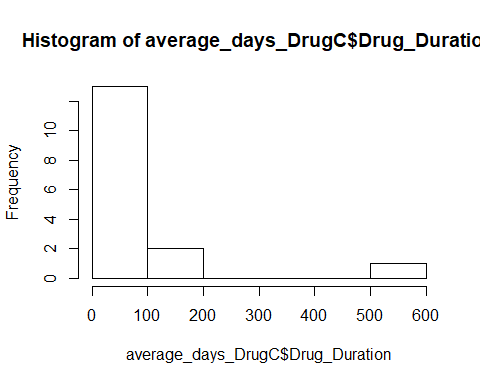
#Subset which will have only duration for Drug type C  
  
average\_days\_DrugC = subset(drugdays,drugdays$DrugCode=='C')  
DrugC=sum(average\_days\_DrugC$Drug\_Duration)/count(average\_days\_DrugC)  
DrugC

## n  
## 1 112.0625

median(average\_days\_DrugC$Drug\_Duration)

## [1] 85.5

hist(average\_days\_DrugC$Drug\_Duration)



#Ans: As the single patient is given multiple drugs, I have taken the first drug given date and the last drug given #date for the specific drug type and identified the duration for each drug type for a given patient.  
  
# To conclude, on average the duration for Drug 'A' 56 days, Drug 'B' duration would be 63 days and Drug 'C'   
# duration would be 85 days(we have an outlier so mean will be affected here, we need to take median)