Base Salary for Registered Nurse

Hana

September 19, 2017

## Setting the work directory

I set the working directory to upload the file

# setwd("C:/Users/Hana/255E")

### Upload the file

I uploaded the CSV file from the file directory

df = read.csv("../data/california-state-university-2015.csv")

## Set different levels for job title

I set up the different level of job title so I can easily find "Registered Nurse"

levels(df$Job.Title)

## [1] "ACCOMPANIST I"   
## [2] "ACCOMPANIST II"   
## [3] "ACCOUNTANT I"   
## [4] "ACCOUNTANT II"   
## [5] "ACCOUNTANT III"   
## [6] "ACCOUNTING CLERK"   
## [7] "ACCOUNTING TECHNICIAN I"   
## [8] "ACCOUNTING TECHNICIAN II"   
## [9] "ACCOUNTING TECHNICIAN III"   
## [10] "ADMINISTRATIVE ANALYST/SPECIALIST -10/12"   
## [11] "ADMINISTRATIVE ANALYST/SPECIALIST -11/12"   
## [12] "ADMINISTRATIVE ANALYST/SPECIALIST -12 MONTH"   
## [13] "ADMINISTRATIVE SUPPORT ASSISTANT -10/12"   
## [14] "ADMINISTRATIVE SUPPORT ASSISTANT -11/12"   
## [15] "ADMINISTRATIVE SUPPORT ASSISTANT -12 MONTH"   
## [16] "ADMINISTRATIVE SUPPORT COORDINATOR -10/12"   
## [17] "ADMINISTRATIVE SUPPORT COORDINATOR -11/12"   
## [18] "ADMINISTRATIVE SUPPORT COORDINATOR -12 MONTH"   
## [19] "ADMINISTRATIVE TRAINEE"   
## [20] "ADMINISTRATOR I"   
## [21] "ADMINISTRATOR II"   
## [22] "ADMINISTRATOR II - ACADEMIC YEAR"   
## [23] "ADMINISTRATOR III"   
## [24] "ADMINISTRATOR III - ACADEMIC YEAR"   
## [25] "ADMINISTRATOR IV"   
## [26] "AIR CONDITIONING/REFRIGERATION MECHANIC"   
## [27] "ANALYST/PROGRAMMER -11/12"   
## [28] "ANALYST/PROGRAMMER -12"   
## [29] "ASSOCIATE, ACADEMIC AND INSTITUTIONAL STUDIES I"   
## [30] "ASSOCIATE, ACADEMIC AND INSTITUTIONAL STUDIES II"   
## [31] "ASSOCIATE, ACADEMIC AND INSTITUTIONAL STUDIES III"   
## [32] "ATHLETIC EQUIPMENT ATTENDANT I"   
## [33] "ATHLETIC EQUIPMENT ATTENDANT II"   
## [34] "ATHLETIC TRAINER I - 12 MONTH"   
## [35] "ATHLETIC TRAINER I - AY"   
## [36] "ATHLETIC TRAINER II - 12 MONTH"   
## [37] "ATHLETIC TRAINER II - AY"   
## [38] "AUTOMOTIVE/EQUIPMENT MECHANIC"   
## [39] "BROADCAST ENGINEER -12 MONTH"   
## [40] "BUDGET ANALYST"   
## [41] "BUILDING SERVICE ENGINEER"   
## [42] "BUYER I"   
## [43] "BUYER II"   
## [44] "BUYER II - LEAD"   
## [45] "BUYER III"   
## [46] "BUYER III - LEAD"   
## [47] "BUYER TRAINEE"   
## [48] "CARPENTER"   
## [49] "CASUAL WORKER"   
## [50] "CERTIFIED AIR CONDITIONING/REFRIGERATION MECHANIC APPRENTICE"  
## [51] "CERTIFIED AUTOMOTIVE/EQUIPMENT MECHANIC APPRENTICE"   
## [52] "CERTIFIED BUILDING SERVICE ENGINEER APPRENTICE"   
## [53] "CERTIFIED ELECTRICIAN APPRENTICE"   
## [54] "CERTIFIED PLUMBER APPRENTICE"   
## [55] "CHANCELLOR OF THE CALIFORNIA STATE UNIVERSITY"   
## [56] "CLINICAL ASSISTANT"   
## [57] "CLINICAL LABORATORY SCIENTIST I"   
## [58] "CLINICAL LABORATORY SCIENTIST II"   
## [59] "CMA CARPENTER I"   
## [60] "CMA CHIEF ENGINEER"   
## [61] "CMA ELECTRICIAN I"   
## [62] "CMA GROUNDSKEEPER"   
## [63] "CMA INSTRUCTIONAL FACULTY -CRUISE-AY"   
## [64] "CMA LEAD GROUNDSKEEPER"   
## [65] "CMA MAINTENANCE MECHANIC"   
## [66] "CMA MATERIALS & STORES SPECIALIST"   
## [67] "CMA PAINTER I"   
## [68] "CMA STATIONARY ENGINEER"   
## [69] "COACH - 10 MONTH"   
## [70] "COACH - 12 MONTH"   
## [71] "COACH - ACADEMIC YEAR"   
## [72] "COACHING ASSISTANT - 10 MONTH"   
## [73] "COACHING ASSISTANT - 12 MONTH"   
## [74] "COACHING ASSISTANT - ACADEMIC YEAR"   
## [75] "COACHING SPECIALIST - 10 MONTH"   
## [76] "COACHING SPECIALIST - 12 MONTH"   
## [77] "COACHING SPECIALIST - ACADEMIC YEAR"   
## [78] "COLLECTIONS REPRESENTATIVE I"   
## [79] "COLLECTIONS REPRESENTATIVE II"   
## [80] "COMMUNITY SERVICE SPECIALIST -12 MONTH"   
## [81] "CONFIDENTIAL ADMINISTRATIVE SUPPORT -12 MONTH"   
## [82] "CONFIDENTIAL OFFICE SUPPORT -11/12"   
## [83] "CONFIDENTIAL OFFICE SUPPORT -12 MONTH"   
## [84] "CONFIDENTIAL TECHNICAL SUPPORT -12 MONTH"   
## [85] "COOK I"   
## [86] "COOK II"   
## [87] "COOK II LEAD"   
## [88] "CORE ELP INSTRUCTOR"   
## [89] "CORPORAL"   
## [90] "CREDENTIAL ANALYST I"   
## [91] "CREDENTIAL ANALYST II"   
## [92] "CREDENTIAL ANALYST TRAINEE"   
## [93] "CROP TECHNICIAN I"   
## [94] "CROP TECHNICIAN II"   
## [95] "CUSTODIAN"   
## [96] "DATA CONTROL TECHNICIAN"   
## [97] "DATA ENTRY OPERATOR"   
## [98] "DEPARTMENT CHAIR - 12 MONTH"   
## [99] "DEPARTMENT CHAIR - ACADEMIC YEAR"   
## [100] "DESKTOP PUBLISHING/GRAPHIC SPECIALIST -10/12"   
## [101] "DESKTOP PUBLISHING/GRAPHIC SPECIALIST -12 MONTH"   
## [102] "DIVING SAFETY OFFICER"   
## [103] "DRAFTING AID"   
## [104] "DRAFTING TECHNICIAN I"   
## [105] "DRAFTING TECHNICIAN II"   
## [106] "EARLY CHILDHOOD ASSOCIATE TEACHER"   
## [107] "EARLY CHILDHOOD MASTER TEACHER"   
## [108] "EARLY CHILDHOOD TEACHER"   
## [109] "ELECTRICIAN"   
## [110] "ELECTRICIAN APPRENTICE, CASUAL EMPLOYMENT"   
## [111] "ENGLISH LANGUAGE PROGRAM SUBSTITUTE INSTRUCTOR"   
## [112] "EQUIPMENT MAINTENANCE ASSISTANT"   
## [113] "EQUIPMENT SYSTEMS SPECIALIST -11/12"   
## [114] "EQUIPMENT SYSTEMS SPECIALIST -12"   
## [115] "EQUIPMENT TECHNICIAN I, ELECTRO-MECHANICAL"   
## [116] "EQUIPMENT TECHNICIAN I, ELECTRONIC"   
## [117] "EQUIPMENT TECHNICIAN I, MECHANICAL"   
## [118] "EQUIPMENT TECHNICIAN I, SPECIALIZED EQUIPMENT"   
## [119] "EQUIPMENT TECHNICIAN II, ELECTRO-MECHANICAL"   
## [120] "EQUIPMENT TECHNICIAN II, ELECTRONIC"   
## [121] "EQUIPMENT TECHNICIAN II, MECHANICAL"   
## [122] "EQUIPMENT TECHNICIAN II, SPECIALIZED EQUIPMENT"   
## [123] "EQUIPMENT TECHNICIAN III, ELECTRO-MECHANICAL"   
## [124] "EQUIPMENT TECHNICIAN III, ELECTRONIC"   
## [125] "EQUIPMENT TECHNICIAN III, MECHANICAL"   
## [126] "EQUIPMENT TECHNICIAN III, SPECIALIZED EQUIPMENT"   
## [127] "EVALUATOR I"   
## [128] "EVALUATOR II"   
## [129] "EVALUATOR TRAINEE"   
## [130] "EXECUTIVE VICE CHANCELLOR AND CHIEF ACADEMIC OFFICER"   
## [131] "EXECUTIVE VICE CHANCELLOR AND CHIEF FINANCIAL OFFICER"   
## [132] "EXECUTIVE VICE CHANCELLOR AND GENERAL COUNSEL"   
## [133] "EXECUTIVE VICE CHANCELLOR FOR ACADEMIC AND STUDENT AFFAIRS"   
## [134] "EXTENDED EDUCATION SPECIALIST I"   
## [135] "EXTENDED EDUCATION SPECIALIST II"   
## [136] "FACILITIES CONTROL SPECIALIST"   
## [137] "FACILITIES MAINTENANCE MECHANIC"   
## [138] "FACILITIES PROJECT SUPERVISOR"   
## [139] "FACILITIES WORKER I"   
## [140] "FACILITIES WORKER II"   
## [141] "FACULTY UNIT 403B DEDUCTION MONTHLY"   
## [142] "FARM LABORER"   
## [143] "FARM MAINTENANCE MECHANIC"   
## [144] "FEDERAL PROGRAMS COORDINATOR"   
## [145] "FOOD SERVICE WORKER I"   
## [146] "FOOD SERVICE WORKER I LEAD"   
## [147] "FOOD SERVICE WORKER II"   
## [148] "FOOD SERVICE WORKER II LEAD"   
## [149] "FT FACULTY UNIT - ADDITIONAL EMPLOYMENT"   
## [150] "GARDENER"   
## [151] "GARDENING SPECIALIST"   
## [152] "GLASSBLOWER"   
## [153] "GRANT-RELATED/SPECIALLY FUNDED INSTRUCTIONAL FACULTY - 12MO"   
## [154] "GRANT-RELATED/SPECIALLY FUNDED INSTRUCTIONAL FACULTY - AY"   
## [155] "GRAPHIC DESIGNER -10/12"   
## [156] "GRAPHIC DESIGNER -12 MONTH"   
## [157] "GROUNDSWORKER"   
## [158] "HEAD ATHLETIC TRAINER - 12 MONTH"   
## [159] "HEAD COACH - 10 MONTH"   
## [160] "HEAD COACH - 12 MONTH"   
## [161] "HEAD COACH - ACADEMIC YEAR"   
## [162] "HEAD RESIDENT I"   
## [163] "HEAD RESIDENT II"   
## [164] "HEALTH EDUCATION ASSISTANT"   
## [165] "HEALTH EDUCATOR"   
## [166] "HEALTH INFORMATION TECHNICIAN"   
## [167] "HEALTH SERVICES ASSISTANT"   
## [168] "HEAVY CONSTRUCTION EQUIPMENT OPERATOR"   
## [169] "HEAVY EQUIPMENT OPERATOR/BUS DRIVER"   
## [170] "HELPER/AID"   
## [171] "HOURLY INTRPRTR/REALTIME CAPTIONER/COMPUTER AIDED TRANSCRIBE"  
## [172] "INFORMATION TECHNOLOGY CONSULTANT -10/12"   
## [173] "INFORMATION TECHNOLOGY CONSULTANT -11/12"   
## [174] "INFORMATION TECHNOLOGY CONSULTANT -12"   
## [175] "INSTRUCTIONAL FACULTY - 12 MONTH"   
## [176] "INSTRUCTIONAL FACULTY - ACADEMIC YEAR"   
## [177] "INSTRUCTIONAL FACULTY - ACADEMIC YEAR \*"   
## [178] "INSTRUCTIONAL FACULTY, CHAIRMAN, ACADEMIC SENATE"   
## [179] "INSTRUCTIONAL FACULTY, EXTENSION -FOR CREDIT"   
## [180] "INSTRUCTIONAL FACULTY, EXTENSION NON-CREDIT"   
## [181] "INSTRUCTIONAL FACULTY, EXTRA QUARTER ASSIGNMENT, QSYRO"   
## [182] "INSTRUCTIONAL FACULTY, SPECIAL PROGRAMS -FOR CREDIT"   
## [183] "INSTRUCTIONAL FACULTY, SPECIAL PROGRAMS FOR CREDIT - ACA"   
## [184] "INSTRUCTIONAL FACULTY, SUMMER SESSION - EXTENSION"   
## [185] "INSTRUCTIONAL FACULTY, SUMMER SESSION - STATE SUPPORT"   
## [186] "INSTRUCTIONAL FACULTY, SUMMER SESSION - STATE SUPPORT - ACA"   
## [187] "INSTRUCTIONAL FACULTY, SUMMER SESSION, EXTENSION - ACA"   
## [188] "INSTRUCTIONAL SUPPORT ASSISTANT I"   
## [189] "INSTRUCTIONAL SUPPORT ASSISTANT II"   
## [190] "INSTRUCTIONAL SUPPORT ASSISTANT III"   
## [191] "INSTRUCTIONAL SUPPORT TECHNICIAN I"   
## [192] "INSTRUCTIONAL SUPPORT TECHNICIAN II"   
## [193] "INSTRUCTIONAL SUPPORT TECHNICIAN III"   
## [194] "INTERPRETER I"   
## [195] "INTERPRETER II"   
## [196] "INTERPRETER II - 8/12"   
## [197] "INVENTORY CLERK"   
## [198] "IRRIGATION SPECIALIST"   
## [199] "LABORATORY ASSISTANT I"   
## [200] "LABORATORY ASSISTANT II"   
## [201] "LABORER"   
## [202] "LEAD AUTOMOTIVE/EQUIPMENT MECHANIC"   
## [203] "LEAD BUILDING SERVICE ENGINEER"   
## [204] "LEAD CARPENTER"   
## [205] "LEAD CUSTODIAN"   
## [206] "LEAD ELECTRICIAN"   
## [207] "LEAD GROUNDSWORKER"   
## [208] "LEAD INTERPRETER"   
## [209] "LEAD INTERPRETER - 8/12"   
## [210] "LEAD LIBRARY ASSISTANT III"   
## [211] "LEAD LIBRARY ASSISTANT IV"   
## [212] "LEAD LOCKSMITH"   
## [213] "LEAD PAINTER"   
## [214] "LEAD PLUMBER"   
## [215] "LEAD REALTIME CAPTIONER"   
## [216] "LECTURER - 12 MONTH"   
## [217] "LECTURER - ACADEMIC YEAR"   
## [218] "LECTURER - ACADEMIC YEAR, CAL STATE TEACH"   
## [219] "LEGAL SECRETARY"   
## [220] "LEGISLATIVE/EXECUTIVE FELLOW"   
## [221] "LIBRARIAN - 10 MONTH"   
## [222] "LIBRARIAN - 12 MONTH"   
## [223] "LIBRARY SERVICES SPECIALIST I"   
## [224] "LIBRARY SERVICES SPECIALIST II"   
## [225] "LIBRARY SERVICES SPECIALIST III"   
## [226] "LIBRARY SERVICES SPECIALIST IV"   
## [227] "LIBRARY SERVICES SPECIALIST TRAINEE"   
## [228] "LICENSED VOCATIONAL NURSE I"   
## [229] "LICENSED VOCATIONAL NURSE II"   
## [230] "LIGHT AUTOMOTIVE EQUIPMENT OPERATOR"   
## [231] "LIVESTOCK TECHNICIAN I"   
## [232] "LIVESTOCK TECHNICIAN II"   
## [233] "LOCKSMITH"   
## [234] "MAIL CLERK"   
## [235] "MAIL SERVICES SUPERVISOR I"   
## [236] "MANAGEMENT INTERN"   
## [237] "MARITIME VOCATIONAL INSTRUCTOR -CRUISE -AY"   
## [238] "MARITIME VOCATIONAL INSTRUCTOR IV -CRUISE-AY"   
## [239] "MARITIME VOCATIONAL LECTURER -12 MONTH"   
## [240] "MARITIME VOCATIONAL LECTURER -CRUISE -AY"   
## [241] "MARITIME VOCATIONAL LECTURER -NONCRUISE -AY"   
## [242] "MASON"   
## [243] "MECHANICS HELPER"   
## [244] "MEDIA PRODUCTION SPECIALIST -10/12"   
## [245] "MEDIA PRODUCTION SPECIALIST -12 MONTH"   
## [246] "MEDICAL ASSISTANT"   
## [247] "MEDICAL SECRETARY"   
## [248] "MEDICAL TRANSCRIBER"   
## [249] "METAL WORKER I"   
## [250] "METAL WORKER II"   
## [251] "MICROGRAPHICS TECHNICIAN"   
## [252] "MUSIC STUDIO INSTRUCTIONAL FACULTY"   
## [253] "NETWORK ANALYST -12"   
## [254] "NOTETAKER"   
## [255] "NURSE PRACTITIONER"   
## [256] "NURSE PRACTITIONER - 10 MONTH"   
## [257] "NURSERY TECHNICIAN II"   
## [258] "OPERATING ENGINEER"   
## [259] "OPERATING SYSTEMS ANALYST -12"   
## [260] "OPERATIONS SPECIALIST -12"   
## [261] "PAINTER"   
## [262] "PARALEGAL"   
## [263] "PARKING OFFICER -10/12"   
## [264] "PARKING OFFICER -11/12"   
## [265] "PARKING OFFICER -12 MONTH"   
## [266] "PAYROLL TECHNICIAN I"   
## [267] "PAYROLL TECHNICIAN II"   
## [268] "PAYROLL TECHNICIAN III"   
## [269] "PAYROLL TECHNICIAN TRAINEE"   
## [270] "PER DIEM NON-EXEMPT - HEALTHCARE"   
## [271] "PERFORMING ARTS TECHNICIAN -10/12"   
## [272] "PERFORMING ARTS TECHNICIAN -11/12"   
## [273] "PERFORMING ARTS TECHNICIAN -12 MONTH"   
## [274] "PEST CONTROL AND SPRAY SPECIALIST"   
## [275] "PHARMACIST I"   
## [276] "PHARMACIST I - 10 MONTH"   
## [277] "PHARMACIST II"   
## [278] "PHARMACY TECHNICIAN"   
## [279] "PHLEBOTOMIST/CLINICAL LABORATORY ASSISTANT"   
## [280] "PHYSICAL THERAPIST II"   
## [281] "PHYSICIAN"   
## [282] "PHYSICIAN ASSISTANT"   
## [283] "PIANO TECHNICIAN I"   
## [284] "PIANO TECHNICIAN II"   
## [285] "PLANNER/ESTIMATOR/SCHEDULER"   
## [286] "PLUMBER"   
## [287] "POLICE DISPATCHER -12 MONTH"   
## [288] "POLICE OFFICER"   
## [289] "POLICE OFFICER CADET-NONREPRESENTED"   
## [290] "POLICE OFFICER INTERMITTENT-NONREPRESENTED"   
## [291] "POST-DOCTORAL COUNSELOR INTERN/FELLOW"   
## [292] "POST-MASTERS COUNSELOR INTERN"   
## [293] "POULTRY TECHNICIAN"   
## [294] "POWER PLANT OPERATOR"   
## [295] "PRE-DOCTORAL COUNSELOR INTERN"   
## [296] "PRESIDENT"   
## [297] "PRESIDENTIAL AIDE"   
## [298] "PROPERTY CLERK I"   
## [299] "PROPERTY CLERK II"   
## [300] "PUBLIC AFFAIRS/COMMUNICATION SPECIALIST -10/12"   
## [301] "PUBLIC AFFAIRS/COMMUNICATION SPECIALIST -11/12"   
## [302] "PUBLIC AFFAIRS/COMMUNICATION SPECIALIST -12 MONTH"   
## [303] "RADIATION SAFETY OFFICER"   
## [304] "RADIOLOGIC TECHNOLOGIST I"   
## [305] "RADIOLOGIC TECHNOLOGIST II"   
## [306] "READER"   
## [307] "REALTIME CAPTIONER"   
## [308] "REALTIME CAPTIONER - 8/12"   
## [309] "REGISTERED DIETITIAN"   
## [310] "REGISTERED NURSE I"   
## [311] "REGISTERED NURSE II"   
## [312] "REGISTERED NURSE II - 10 MONTH"   
## [313] "REGISTERED NURSE III"   
## [314] "REPROGRAPHICS SPECIALIST I"   
## [315] "REPROGRAPHICS SPECIALIST II"   
## [316] "REPROGRAPHICS SPECIALIST III"   
## [317] "REPROGRAPHICS SPECIALIST IV"   
## [318] "RESEARCH FELLOW"   
## [319] "RESEARCH TECHNICIAN I"   
## [320] "RESEARCH TECHNICIAN II"   
## [321] "RESEARCH TECHNICIAN III"   
## [322] "RESIDENT DIRECTOR, INTERNATIONAL PROGRAMS - 12 MONTH"   
## [323] "SENIOR BUDGET ANALYST"   
## [324] "SENIOR DATA CONTROL TECHNICIAN"   
## [325] "SENIOR PLANNER/ESTIMATOR/SCHEDULER"   
## [326] "SERGEANT"   
## [327] "SHIPPING AND RECEIVING ASSISTANT I"   
## [328] "SPACE AND FACILITIES UTILIZATION SPECIALIST"   
## [329] "SPECIAL CONSULTANT"   
## [330] "SPECIAL CONSULTANT - ACA"   
## [331] "SPEECH PATHOLOGIST"   
## [332] "STOCK CLERK"   
## [333] "STOREKEEPER I"   
## [334] "STUDENT PERSONNEL TECHNICIAN, FINANCIAL AIDS"   
## [335] "STUDENT SERVICES PROFESSIONAL I"   
## [336] "STUDENT SERVICES PROFESSIONAL I - 10 MONTH"   
## [337] "STUDENT SERVICES PROFESSIONAL II"   
## [338] "STUDENT SERVICES PROFESSIONAL II - 10 MONTH"   
## [339] "STUDENT SERVICES PROFESSIONAL II - ACADEMIC YEAR"   
## [340] "STUDENT SERVICES PROFESSIONAL III"   
## [341] "STUDENT SERVICES PROFESSIONAL III - 10 MONTH"   
## [342] "STUDENT SERVICES PROFESSIONAL III - ACADEMIC YEAR"   
## [343] "STUDENT SERVICES PROFESSIONAL IV"   
## [344] "STUDENT SERVICES PROFESSIONAL IV - 10 MONTH"   
## [345] "STUDENT SERVICES PROFESSIONAL IV - ACADEMIC YEAR"   
## [346] "STUDENT SERVICES PROFESSIONAL, ACADEMIC-RELATED I-AY"   
## [347] "STUDENT SERVICES PROFESSIONAL, ACADEMIC-RELATED I - 12 MONTH"  
## [348] "STUDENT SERVICES PROFESSIONAL, ACADEMIC-RELATED II-AY"   
## [349] "STUDENT SERVICES PROFESSIONAL, ACADEMIC-RELATED II - 12 MONT"  
## [350] "STUDENT SERVICES PROFESSIONAL, ACADEMIC-RELATED III-12 MONTH"  
## [351] "STUDENT SERVICES PROFESSIONAL, ACADEMIC-RELATED III-AY"   
## [352] "SUBSTITUTE INSTRUCTIONAL FACULTY"   
## [353] "SUPERVISING AUTOMOTIVE/EQUIPMENT MECHANIC"   
## [354] "SUPERVISING BUILDING SERVICE ENGINEER"   
## [355] "SUPERVISING CARPENTER"   
## [356] "SUPERVISING ELECTRICIAN"   
## [357] "SUPERVISING LIBRARIAN - 12 MONTH"   
## [358] "SUPERVISING LOCKSMITH"   
## [359] "SUPERVISING METAL WORKER"   
## [360] "SUPERVISING MICROGRAPHICS TECHNICIAN I"   
## [361] "SUPERVISING PAINTER"   
## [362] "SUPERVISING PLUMBER"   
## [363] "SUPERVISING TELEPHONE OPERATOR"   
## [364] "TECHNICIAN TRAINEE"   
## [365] "TERM ELP INSTRUCTOR"   
## [366] "TREE TRIMMER I"   
## [367] "TREE TRIMMER II"   
## [368] "TRUSTEE - THE CALIFORNIA STATE UNIVERSITY"   
## [369] "VETERINARIAN I"   
## [370] "VETERINARIAN II"   
## [371] "VICE CHANCELLOR AND CHIEF AUDIT OFFICER"   
## [372] "VICE CHANCELLOR, HUMAN RESOURCES"   
## [373] "VICE CHANCELLOR, UNIVERSITY RELATIONS AND ADVANCEMENT"   
## [374] "VISITING FACULTY - 12 MONTH"   
## [375] "VISITING FACULTY - ACADEMIC YEAR"   
## [376] "VISUAL RESOURCE SPECIALIST -11/12"   
## [377] "VISUAL RESOURCE SPECIALIST -12 MONTH"   
## [378] "VOCATIONAL INSTRUCTOR - 12 MONTH"   
## [379] "WAREHOUSE WORKER"   
## [380] "WINDOW CLEANER"

### Registered Nurse I

I pulled out the column that contains "Registered Nurse I" and all of the row associate with it.

RNI = df[df$Job.Title == "REGISTERED NURSE I", ]

### Registered Nurse II

I pulled out the column that contains "Registered Nurse II" and all of the row associate with it.

RNII = df[df$Job.Title == "REGISTERED NURSE II", ]

### Registered Nurse III

I pulled out the column that contains "Registered Nurse III" and all of the row associate with it.

RNIII = df[df$Job.Title == "REGISTERED NURSE III", ]

## Merging the data sets

Since RNI, RNII and RNIII had the same column and fifferent row, I combined them into RNall.

RNall = rbind(RNI, RNII, RNIII)

### Drop other levels

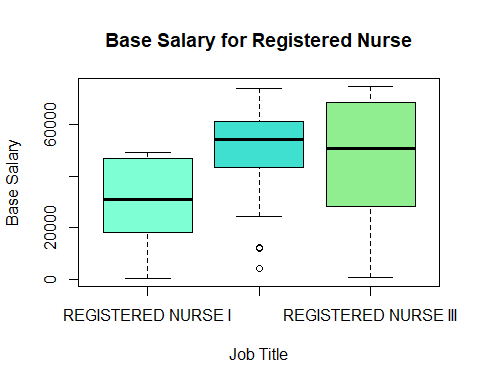
Since RNall contain other job level, I dropped the unnecessary one, and only keep RNI, RNII and RNIII

RNall = droplevels(RNall)

## Box plot

I created a box plot to show the base salary of 3 different level of registered nurse- RNI, RNII and RNIII.

boxplot(Base.Pay~Job.Title,  
 data = RNall, xlab = 'Job Title', ylab = 'Base Salary',  
 col = c("aquamarine", "turquoise", "palegreen2"),  
 main = "Base Salary for Registered Nurse")



Base Salary for Registered Nurse

## Average bease pay

I calculated the average base pay for each level of registered nurse

mean\_salary= aggregate(Base.Pay~Job.Title,  
 data = RNall, FUN = mean)  
mean\_salary

## Job.Title Base.Pay  
## 1 REGISTERED NURSE I 28836.69  
## 2 REGISTERED NURSE II 50395.10  
## 3 REGISTERED NURSE III 47389.64

### Formating table out of the data frame

I used the 'kable' function to make a nicely formatted table out of the data frame

kable(mean\_salary, caption = 'Average Base Pay for Registered Nurse')

Average Base Pay for Registered Nurse

|  |  |
| --- | --- |
| Job.Title | Base.Pay |
| REGISTERED NURSE I | 28836.69 |
| REGISTERED NURSE II | 50395.10 |
| REGISTERED NURSE III | 47389.64 |