Exploratory Data Analysis Report

Report by dlookr package

2019-11-09

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1 Introduction

The EDA Report provides exploratory data analysis information on objects that inherit data.frame and data.frame.

1.1 Information of Dataset

The dataset that generated the EDA Report is an 'data.frame' object. It consists of 3,527 observations and 33 variables.

1.2 Information of Variables

The variable information of the data set that generated the EDA Report is shown in the following table.:

Information of Variables

variables	types	missing_count	missing_percent	unique_count	unique_rate
Age	integer	0	0	4	0.0011341
Gender	integer	0	0	2	0.0005671

Marital_status integer 0 0 2 0.0005671 Num_comp_worked integer 0 0 4 0.0011341 Work_Experience integer 0 0 4 0.0011341 Last_salary integer 0 0 5 0.0014176 Salary_hike integer 0 0 5 0.0014176 Work_hours integer 0 0 2 0.0005671 NoticePeriod_buyout integer 0 0 2 0.0005671 NoticePeriod_buyout integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle integer 0 0 2 0.0005671 Work_Jocation integer 0 0 2 0.0005671 Work_Jocation integer 0 0 3 0.0008506 Traveltowork_distancetime integer 0 0 3 0.0008506 Work_Jorg_cost integer 0	variables	types	missing_count	missing_percent	unique_count	unique_rate
Work_Experience integer 0 0 4 0.0011341 Last_salary integer 0 0 5 0.0014176 Salary_hike integer 0 0 5 0.0014176 Work_hours integer 0 0 2 0.0005671 Work_hours integer 0 0 2 0.0005671 NoticePeriod_buyout integer 0 0 2 0.0005671 NoticePeriod_buyout integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle integer 0 0 2 0.0005671 Work_location integer 0 0 3 0.0008506 Traveltowork_distance_time integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 3 0.0008506 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 <td>Marital_status</td> <td>integer</td> <td>0</td> <td>0</td> <td>2</td> <td>0.0005671</td>	Marital_status	integer	0	0	2	0.0005671
Last_salary Integer 0 0 5 0.0014176 Salary_hike Integer 0 0 5 0.0014176 Work_hours Integer 0 0 2 0.0005671 Traveling_required Integer 0 0 2 0.0005671 NoticePeriod_buyout Integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle Integer 0 0 2 0.0005671 Work_location Integer 0 0 2 0.0005671 Work_location Integer 0 0 3 0.0008506 Traveltowork_distance_time Integer 0 0 3 0.0008506 Work_area_living_cost Integer 0 0 3 0.0008506 Public_transport_nearby Integer 0 0 2 0.0005671 Current_employment Integer 0 0 2 0.0005671 Gette_tetter_Processtime.week. Integer	Num_comp_worked	integer	0	0	4	0.0011341
Salary_hike Integer 0 0 5 0.0014176 Work_hours Integer 0 0 3 0.0008506 Traveling_required Integer 0 0 2 0.0005671 NoticePeriod_buyout Integer 0 0 2 0.0005671 Job_type Integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle Integer 0 0 2 0.0005671 Work_location Integer 0 0 3 0.0008506 Traveltowork_distance_time Integer 0 0 3 0.0008506 Work_area_living_cost Integer 0 0 3 0.0008506 Public_transport_nearby Integer 0 0 2 0.0005671 Current_employment Integer 0 0 2 0.0005671 Gurrent_employment Integer 0 0 2 0.0005671 Bonus Integer 0	Work_Experience	integer	0	0	4	0.0011341
Work_hours integer 0 0 3 0.0008506 Traveling_required integer 0 0 2 0.0005671 NoticePeriod_buyout integer 0 0 2 0.0005671 Job_type integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle integer 0 0 2 0.0005671 Work_location integer 0 0 3 0.0008506 Traveltowork_distancetime integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 3 0.0008506 Public_transport_nearby integer 0 0 3 0.0008506 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Bonus integer <	Last_salary	integer	0	0	5	0.0014176
Traveling_required integer 0 0 2 0.0005671 NoticePeriod_buyout integer 0 0 2 0.0005671 Job_type integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle integer 0 0 2 0.0005671 Work_location integer 0 0 3 0.0008506 Traveltowork_distance_time integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 3 0.0008506 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 <td>Salary_hike</td> <td>integer</td> <td>0</td> <td>0</td> <td>5</td> <td>0.0014176</td>	Salary_hike	integer	0	0	5	0.0014176
NoticePeriod_buyout integer 0 0 2 0.0005671 Job_type integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle integer 0 0 2 0.0005671 Work_location integer 0 0 3 0.0008506 Traveltowork_distancetime integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 3 0.0008506 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Offer_letter_Processtime.week. integer 0 0 2 0.0005671 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Emp_shares_scheme integer 0	Work_hours	integer	0	0	3	0.0008506
Job_type integer 0 0 2 0.0005671 Whether_comp_Possess_vehicle integer 0 0 2 0.0005671 Work_location integer 0 0 3 0.0008506 Traveltowork_distancetime integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 2 0.0005671 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Offer_letter_Processtime.week. integer 0 0 2 0.0005671 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Overtime_pay integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Performance_incentive integer	Traveling_required	integer	0	0	2	0.0005671
Whether_comp_Possess_vehicle integer 0 0 2 0.0005671 Work_location integer 0 0 3 0.0008506 Traveltowork_distancetime integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 2 0.0005671 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Bonus integer 0 0 2 0.0005671 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Annual_leave integer 0	NoticePeriod_buyout	integer	0	0	2	0.0005671
Work_location integer 0 0 3 0.0008506 Traveltowork_distancetime integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 2 0.0005671 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Offer_letter_Processtime.week. integer 0 0 2 0.0014176 Bonus integer 0 0 2 0.0014176 Allowance integer 0 0 2 0.005671 Allowance integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0	Job_type	integer	0	0	2	0.0005671
Traveltowork_distancetime integer 0 0 3 0.0008506 Work_area_living_cost integer 0 0 3 0.0008506 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Offer_letter_Processtime.week. integer 0 0 2 0.0014176 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.005671 Overtime_pay integer 0 0 2 0.005671 Emp_shares_scheme integer 0 0 2 0.005671 Performance_incentive integer 0 0 2 0.005671 Annual_leave integer 0 0 2 0.005671 Medical_Family integer 0 0 2 0.005671 Nursing_room integer 0	Whether_comp_Possess_vehicle	integer	0	0	2	0.0005671
Work_area_living_cost integer 0 0 3 0.0008506 Public_transport_nearby integer 0 0 2 0.0005671 Current_employment integer 0 0 2 0.0005671 Offer_letter_Processtime.week. integer 0 0 5 0.0014176 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Overtime_pay integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Performance_incentive integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Nursing_room integer 0 0 </td <td>Work_location</td> <td>integer</td> <td>0</td> <td>0</td> <td>3</td> <td>0.0008506</td>	Work_location	integer	0	0	3	0.0008506
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Current_employment integer 0 0 2 0.0005671 Offer_letter_Processtime.week. integer 0 0 5 0.0014176 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Overtime_pay integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Performance_incentive integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 5 0.0014176 Comp_rating integer 0 0 5	Work_area_living_cost	integer	0	0	3	0.0008506
Offer_letter_Processtime.week. integer 0 0 5 0.0014176 Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Overtime_pay integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Performance_incentive integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 <t< td=""><td>Public_transport_nearby</td><td>integer</td><td>0</td><td>0</td><td>2</td><td>0.0005671</td></t<>	Public_transport_nearby	integer	0	0	2	0.0005671
Bonus integer 0 0 2 0.0005671 Allowance integer 0 0 2 0.0005671 Overtime_pay integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Performance_incentive integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341	Current_employment	integer	0	0	2	0.0005671
Allowance integer 0 0 0 2 0.0005671 Overtime_pay integer 0 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 0 2 0.0005671 Performance_incentive integer 0 0 0 2 0.0005671 Annual_leave integer 0 0 0 2 0.0005671 Medical_Family integer 0 0 0 2 0.0005671 Child_day_care integer 0 0 0 2 0.0005671 Nursing_room integer 0 0 0 2 0.0005671 Parking integer 0 0 0 2 0.0005671 Comp_size integer 0 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 5 0.0014176 Stresslevel integer 0 0 0 4 0.0011341	Offer_letter_Processtime.week.	integer	0	0	5	0.0014176
Overtime_pay integer 0 0 2 0.0005671 Emp_shares_scheme integer 0 0 2 0.0005671 Performance_incentive integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341	Bonus	integer	0	0	2	0.0005671
Emp_shares_scheme integer 0 0 2 0.0005671 Performance_incentive integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341 Stresslevel integer 0 0 4 0.0011341	Allowance	integer	0	0	2	0.0005671
Performance_incentive integer 0 0 2 0.0005671 Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341 Stresslevel integer 0 0 4 0.0011341	Overtime_pay	integer	0	0	2	0.0005671
Annual_leave integer 0 0 2 0.0005671 Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341 Stresslevel integer 0 0 4 0.0011341	Emp_shares_scheme	integer	0	0	2	0.0005671
Medical_Family integer 0 0 2 0.0005671 Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341 Stresslevel integer 0 0 4 0.0011341	Performance_incentive	integer	0	0	2	0.0005671
Child_day_care integer 0 0 2 0.0005671 Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341 Stresslevel integer 0 0 4 0.0011341	Annual_leave	integer	0	0	2	0.0005671
Nursing_room integer 0 0 2 0.0005671 Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 4 0.0011341 Stresslevel integer 0 0 4 0.0011341	Medical_Family	integer	0	0	2	0.0005671
Parking integer 0 0 2 0.0005671 Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 5 0.0014176 Stresslevel integer 0 0 4 0.0011341	Child_day_care	integer	0	0	2	0.0005671
Comp_size integer 0 0 5 0.0014176 Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 5 0.0014176 Stresslevel integer 0 0 4 0.0011341	Nursing_room	integer	0	0	2	0.0005671
Comp_rating integer 0 0 5 0.0014176 Work_life integer 0 0 5 0.0014176 Stresslevel integer 0 0 4 0.0011341	Parking	integer	0	0	2	0.0005671
Work_life integer 0 0 5 0.0014176 Stresslevel integer 0 0 4 0.0011341	Comp_size	integer	0	0	5	0.0014176
Stresslevel integer 0 0 4 0.0011341	Comp_rating	integer	0	0	5	0.0014176
	Work_life	integer	0	0	5	0.0014176
Accept_offer	Stresslevel	integer	0	0	4	0.0011341
	Accept_offer	integer	0	0	2	0.0005671

The target variable of the data is 'NULL', and the data type of the variable is NULL(You did not specify a target variable).

1.3 About EDA Report

EDA reports provide information and visualization results that support the EDA process. In particular, it provides a variety of information to understand the relationship between the target variable and the rest of the variables of interest.

2 Univariate Analysis

2.1 Descriptive Statistics

edaData

33 Variables **3527 Observations**

ge							
n	missing	distinct	Ir	ifo	Mean	Gmd	
3527	0	4	0.	856	0.8035	0.8049	
Value Frequency Proportio	0 1 y 1384 1515 on 0.392 0.430 0.	2 3 565 63 160 0.018					
ender							
n	missing	distinct	Info	Sum	Mean	Gmd	
3527	0	2	0.745	1902	0.5393	0.4971	
arital_sta	missing	distinct	Info	Sum	Mean	Gmd	
3527	0	2	0.739	1549	0.4392	0.4927	
um_com	p_worked						
n	missing	distinct	ı	nfo	Mean	Gmd	
3527	0	4	().733	0.5574	0.804	
Value Frequency Proportio	0 1 y 2225 872 on 0.631 0.247 0.	2 3 196 234 056 0.066					
ork_Expe	riongo						

Frequency localhost:15473/session/EDA_Report.html

3527

Value

missing

0

0

632 1623

1

distinct

4

3

406

2

866

Info

0.88

Mean

1.297

Gmd

0.9593

Proportion 0.179 0.460 0.246 0.115

Last_salary	
Last_salary	dla

n	missing	distinct	Info	Mean	Gmd
3527	0	5	0.821	1.383	0.9841

Value 0 1 2 3 4
Frequency 438 1951 683 260 195
Proportion 0.124 0.553 0.194 0.074 0.055

Salary_hike

n	missing	distinct	Info	Mean	Gmd
3527	0	5	0.867	1.246	0.9917

Value 0 1 2 3 4
Frequency 704 1718 745 254 106
Proportion 0.200 0.487 0.211 0.072 0.030

Work_hours In

n	missing	distinct	Info	Mean	Gmd
3527	0	3	0.771	0.5415	0.7112

Value 0 1 2 Frequency 2077 990 460 Proportion 0.589 0.281 0.130

Traveling_required

n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.75	1725	0.4891	0.4999

NoticePeriod_buyout

n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.691	1268	0.3595	0.4607

Job_type

n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.704	2198	0.6232	0.4698

Whether_comp_Possess_vehicle

n missing distinct Info Sum Mean Gmd

			Exploratory Data	a Analysis Re	eport		
3527	0	2	0.384	2995	0.8492	0.2562	
Vork_locat	tion						
n	missing	distinct	Inf	·o	Mean	Gmd	
3527	0	3	0.0	324	1.053	0.7163	
Value Frequency Proportio	0 1 735 1870 nn 0.208 0.530 0	2 922 .261					
raveltowo	ork_distance	time					
n	missing	distinct	Info		Mean	Gmd	
3527	0	3	0.8	56	0.7757	0.7757	
Value Frequency Proportio	0 1 1423 1472 nn 0.403 0.417 0	2 632 .179					
/ork_area	_living_cost						
n	missing	distinct	Inf	o	Mean	Gmd	
3527	0	3	8.0	255	1.201	0.7683	
Value Frequency Proportio	0 1 637 1543 on 0.181 0.437 0						
ublic_tran	nsport_nearby						
n	missing	distinct	Info	Sum	Mean	Gmd	
3527	0	2	0.746	1642	0.4656	0.4978	
urrent_en	nployment						
n	missing	distinct	Info	Sum	Mean	Gmd	
3527	0	2	0.421	2932	0.8313	0.2806	
	r_Processtime.	week.					
ffer_lette							
offer_lette	missing	distinct	Inf	o	Mean	Gmd	

Bonus

n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.748	1848	0.524	0.499
Allowance						
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.479	704	0.1996	0.3196
Overtime	_pay					
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.579	922	0.2614	0.3863
Emp_shar	es_scheme					
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.327	439	0.1245	0.218
Performance_incentive						
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.608	997	0.2827	0.4057
Annual_le	ave					
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.364	3029	0.8588	0.2426
Medical_F	amily					
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.441	631	0.1789	0.2939
Child_day	_care					
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.255	331	0.09385	0.1701
Nursing_room						
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.735	2011	0.5702	0.4903
Parking						
n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.749	1686	0.478	0.4992

Comp_size

n	missing	distinct	Info	Mean	Gmd
3527	0	5	0.91	2.763	1.307

Value 0 1 2 3 4
Frequency 350 207 517 1309 1144
Proportion 0.099 0.059 0.147 0.371 0.324

Comp_rating ...III

n	missing	distinct	Info	Mean	Gmd
3527	0	5	0.915	2.385	1.122

Value 0 1 2 3 4
Frequency 84 572 1378 889 604
Proportion 0.024 0.162 0.391 0.252 0.171

Work_life

n	missing	distinct	Info	Mean	Gmd
3527	0	5	0.877	2.495	1.214

Value 0 1 2 3 4
Frequency 377 270 647 1696 537
Proportion 0.107 0.077 0.183 0.481 0.152

Stresslevel

n	missing	distinct	Info	Mean	Gmd
3527	0	4	0.918	2.845	1.091

 Value
 1
 2
 3
 4

 Frequency
 387
 891
 1130
 1119

 Proportion
 0.110
 0.253
 0.320
 0.317

Accept_offer

n	missing	distinct	Info	Sum	Mean	Gmd
3527	0	2	0.748	1677	0.4755	0.4989

2.2 Normality Test of Numerical Variables

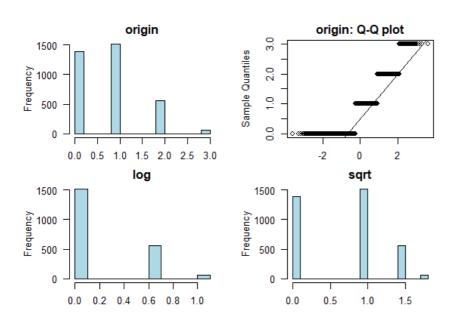
2.2.1 Statistics and Visualization of (Sample) Data

[Age]

statistic: 0.81069, p-value: 1.11659E-53

skewness and kurtosis

type	skewness	kurtosis
original	0.5879396	2.650072
log transformation	NaN	NaN
sqrt transformation	-0.1681584	1.434451

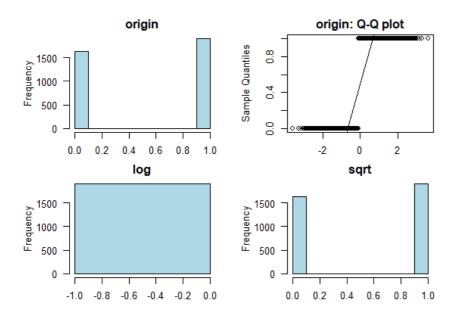


[Gender]

normality test: Shapiro-Wilk normality test

statistic : 0.63438, p-value : 9.15558E-66

type	skewness	kurtosis
original	-0.1575607	1.024825
log transformation	NaN	NaN
sqrt transformation	-0.1575607	1.024825



[Marital_status]

sqrt transformation

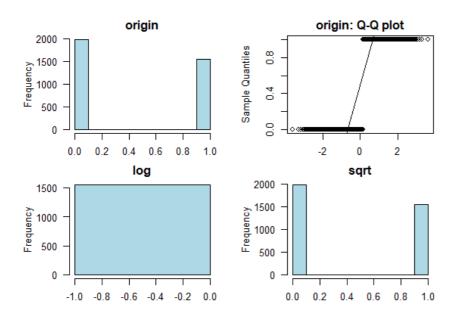
normality test: Shapiro-Wilk normality test

statistic : 0.63122, p-value : 6.24644E-66

skewness and kurtosis				
type		skewness	kurtosis	
original		0.245086	1.060067	
log transfor	mation	NaN	NaN	

0.245086

1.060067

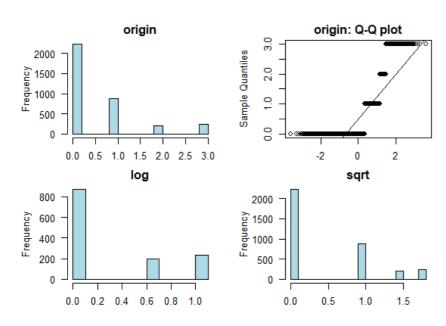


[Num_comp_worked]

statistic : 0.66381, p-value : 3.74087E-64

skewness and kurtosis

type	skewness	kurtosis
original	1.591329	4.677313
log transformation	NaN	NaN
sqrt transformation	0.837825	2.140986

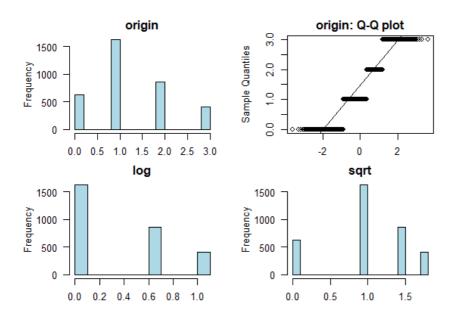


[Work_Experience]

normality test: Shapiro-Wilk normality test

statistic : 0.86459, p-value : 5.19507E-48

type	skewness	kurtosis
original	0.3538369	2.421953
log transformation	NaN	NaN
sqrt transformation	-0.8127897	2.781679



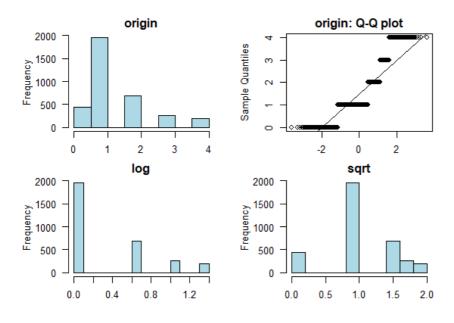
[Last_salary]

normality test : Shapiro-Wilk normality test

statistic : 0.8142, p-value : 2.36104E-53

skewness a	and k	kurtosis
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type	skewness	kurtosis
original	1.0454673	3.867493
log transformation	NaN	NaN
sqrt transformation	-0.6078941	3.571923

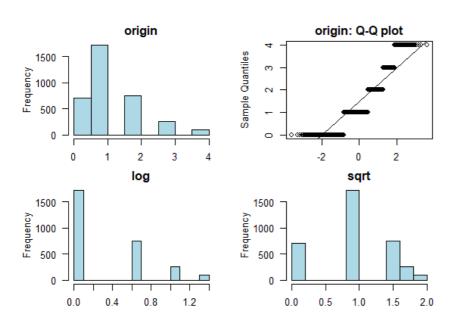


[Salary_hike]

statistic : 0.85253, p-value : 2.01249E-49

skewness and kurtosis

type	skewness	kurtosis
original	0.8239704	3.585294
log transformation	NaN	NaN
sqrt transformation	-0.5949362	2.639159

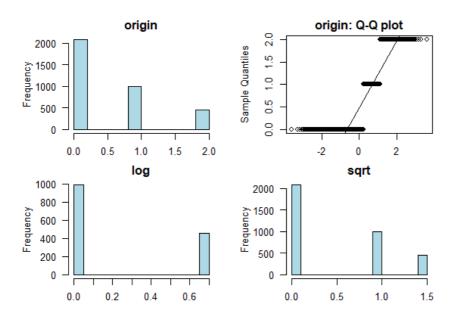


[Work_hours]

normality test: Shapiro-Wilk normality test

statistic : 0.70948, p-value : 2.12392E-61

type	skewness	kurtosis
original	0.9308180	2.519874
log transformation	NaN	NaN
sqrt transformation	0.5132925	1.478600

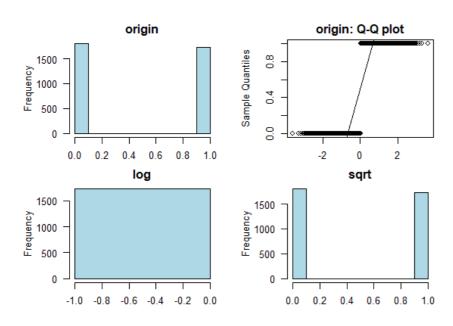


[Traveling_required]

normality test : Shapiro-Wilk normality test

statistic : 0.63645, p-value : 1.17887E-65

skewness and kurtosis		
type	skewness	kurtosis
original	0.0436736	1.001907
log transformation	NaN	NaN
sqrt transformation	0.0436736	1.001907

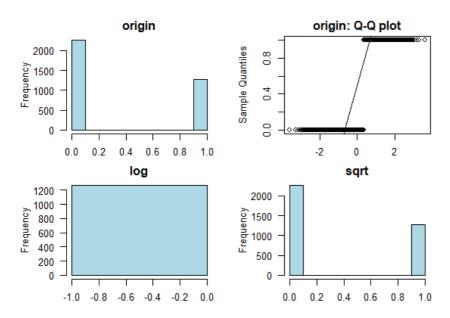


[NoticePeriod_buyout]

statistic : 0.60727, p-value : 3.7369E-67

skewness and kurtosis

type	skewness	kurtosis
original	0.5855391	1.342856
log transformation	NaN	NaN
sqrt transformation	0.5855391	1.342856

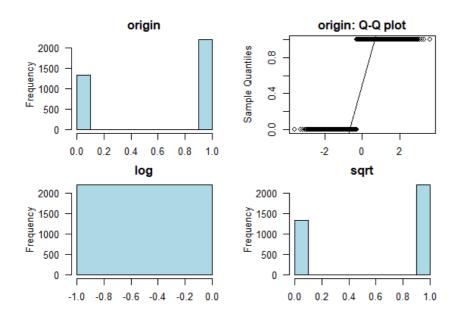


[Job_type]

normality test: Shapiro-Wilk normality test

statistic : 0.61417, p-value : 8.28552E-67

type	skewness	kurtosis
original	-0.5084444	1.258516
log transformation	NaN	NaN
sqrt transformation	-0.5084444	1.258516



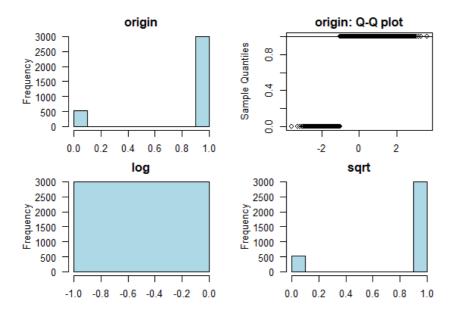
[Whether_comp_Possess_vehicle]

normality test: Shapiro-Wilk normality test

statistic : 0.42755, p-value : 1.01625E-74

skewness and kurtosis

type	skewness	kurtosis
original	-1.951238	4.807329
log transformation	NaN	NaN
sqrt transformation	-1.951238	4.807329

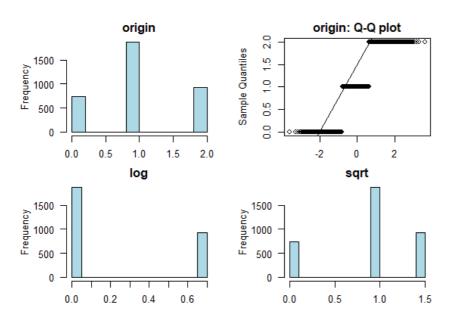


[Work_location]

statistic : 0.80245, p-value : 2.0116E-54

skewness and kurtosis

type	skewness	kurtosis
original	-0.0670852	2.138914
log transformation	NaN	NaN
sqrt transformation	-0.9650894	2.620237

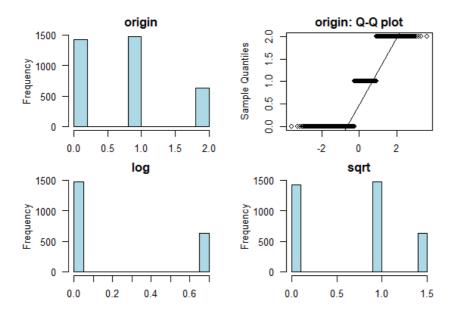


[Traveltowork_distance_._time]

normality test: Shapiro-Wilk normality test

statistic : 0.79085, p-value : 1.98781E-55

type	skewness	kurtosis
original	0.3737775	1.939689
log transformation	NaN	NaN
sqrt transformation	-0.1787093	1.331311



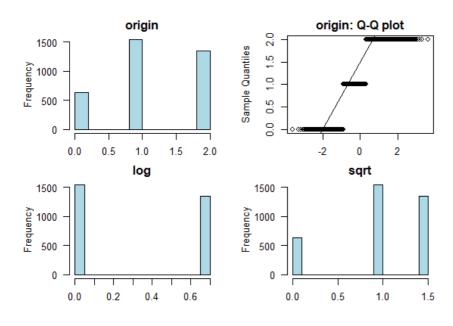
[Work_area_living_cost]

normality test: Shapiro-Wilk normality test

statistic : 0.79521, p-value : 4.689E-55

skewness	and	kurtosis
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type	skewness	kurtosis
original	-0.3237349	1.953436
log transformation	NaN	NaN
sqrt transformation	-1.1248630	2.964018

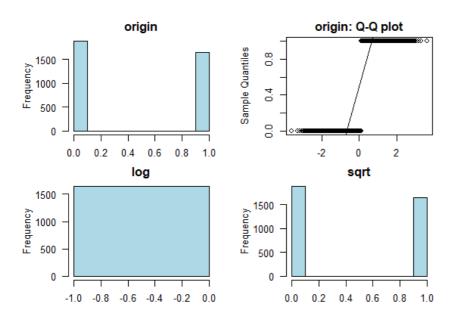


[Public_transport_nearby]

statistic : 0.63489, p-value : 9.75175E-66

skewness and kurtosis

type	skewness	kurtosis
original	0.1381224	1.019078
log transformation	NaN	NaN
sqrt transformation	0.1381224	1.019078

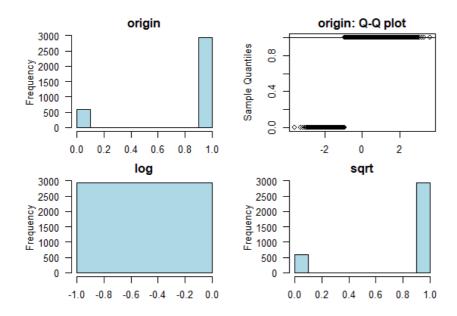


[Current_employment]

normality test: Shapiro-Wilk normality test

statistic : 0.4521, p-value : 8.10082E-74

type	skewness	kurtosis
original	-1.769368	4.130664
log transformation	NaN	NaN
sqrt transformation	-1.769368	4.130664

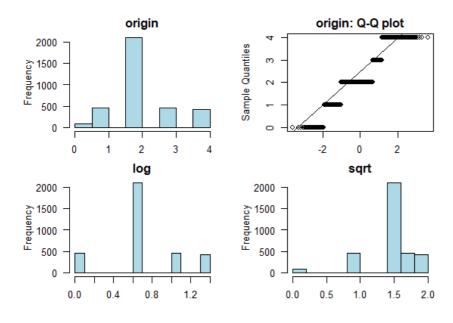


[Offer_letter_Processtime.week.]

normality test: Shapiro-Wilk normality test

statistic : 0.82523, p-value : 2.68829E-52

skewness and kurtosis		
type	skewness	kurtosis
original	0.405142	3.357904
log transformation	NaN	NaN
sqrt transformation	-1.347298	7.810792

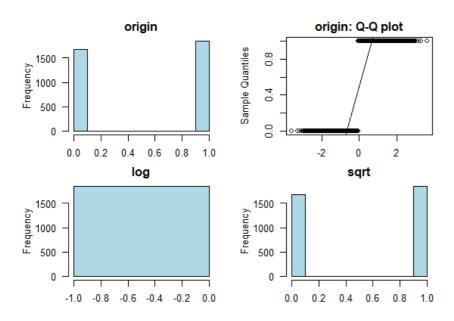


[Bonus]

statistic : 0.63579, p-value : 1.08731E-65

skewness and kurtosis

type	skewness	kurtosis
original	-0.0959424	1.009205
log transformation	NaN	NaN
sqrt transformation	-0.0959424	1.009205

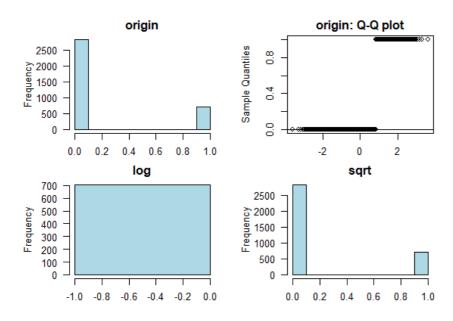


[Allowance]

normality test: Shapiro-Wilk normality test

statistic : 0.4894, p-value : 2.22041E-72

type	skewness	kurtosis
original	1.503105	3.259323
log transformation	NaN	NaN
sqrt transformation	1.503105	3.259323

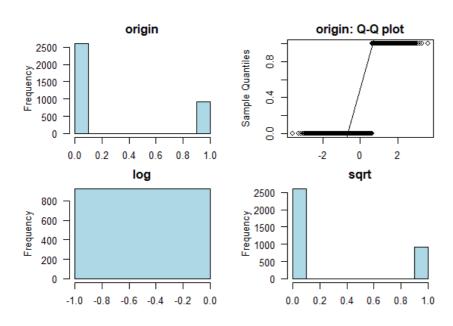


[Overtime_pay]

normality test : Shapiro-Wilk normality test

statistic : 0.54796, p-value : 6.26542E-70

skewness and kurtosis		
type	skewness	kurtosis
original	1.085962	2.179314
log transformation	NaN	NaN
sqrt transformation	1.085962	2.179314

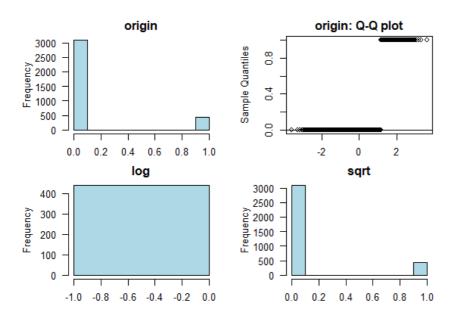


[Emp_shares_scheme]

statistic : 0.3865, p-value : 3.72852E-76

skewness and kurtosis

type	skewness	kurtosis
original	2.275155	6.176332
log transformation	NaN	NaN
sqrt transformation	2.275155	6.176332

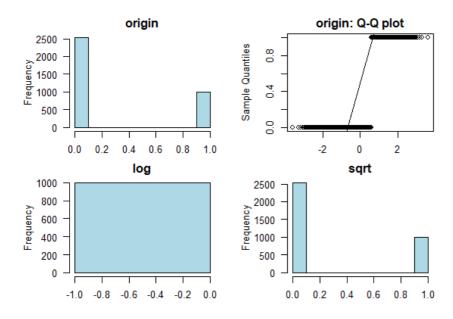


[Performance_incentive]

normality test: Shapiro-Wilk normality test

statistic : 0.56398, p-value : 3.26897E-69

type	skewness	kurtosis
original	0.9652378	1.931684
log transformation	NaN	NaN
sqrt transformation	0.9652378	1.931684



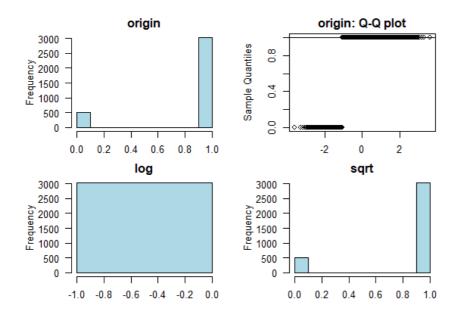
[Annual_leave]

normality test: Shapiro-Wilk normality test

statistic : 0.41325, p-value : 3.14312E-75

skewness and kurtosis type skewness kurtosis original -2.060762 5.24674

log transformation	NaN	NaN
sort transformation	-2.060762	5.24674

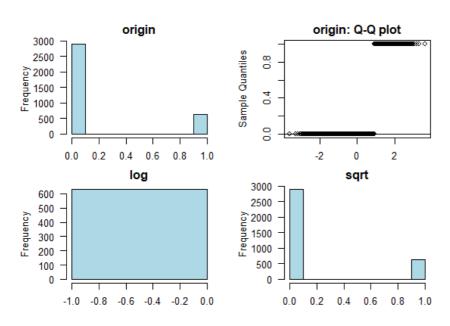


[Medical_Family]

statistic : 0.46511, p-value : 2.51186E-73

skewness and kurtosis

type	skewness	kurtosis
original	1.675538	3.807427
log transformation	NaN	NaN
sqrt transformation	1.675538	3.807427

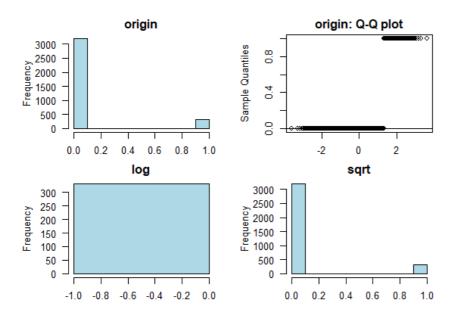


[Child_day_care]

normality test: Shapiro-Wilk normality test

statistic : 0.32988, p-value : 5.26717E-78

type	skewness	kurtosis
original	2.785526	8.759156
log transformation	NaN	NaN
sqrt transformation	2.785526	8.759156



[Nursing_room]

sqrt transformation

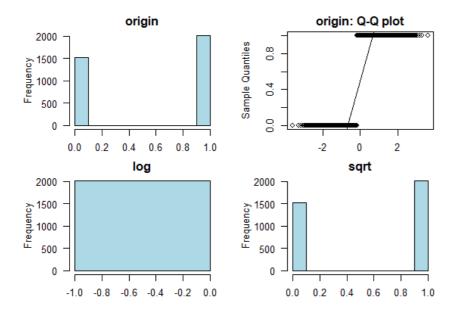
normality test: Shapiro-Wilk normality test

statistic : 0.62942, p-value : 5.02857E-66

-0.2834977

1.080371

skewness and kurtosis		
type	skewness	kurtosis
original	-0.2834977	1.080371
log transformation	NaN	NaN

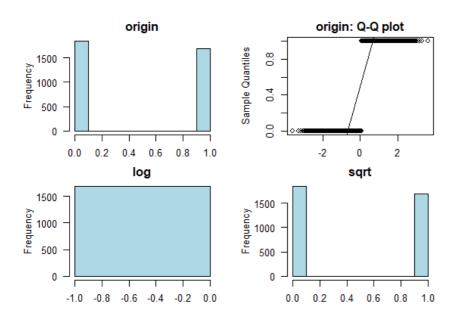


[Parking]

statistic : 0.63592, p-value : 1.10507E-65

skewness and kurtosis

type	skewness	kurtosis
original	0.0879784	1.00774
log transformation	NaN	NaN
sqrt transformation	0.0879784	1.00774

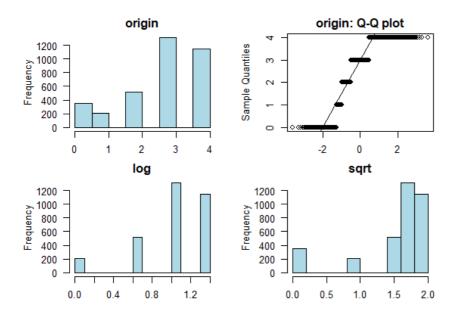


[Comp_size]

normality test: Shapiro-Wilk normality test

statistic : 0.82105, p-value : 1.05444E-52

type	skewness	kurtosis
original	-0.9706788	3.008641
log transformation	NaN	NaN
sqrt transformation	-1.8187368	5.311680

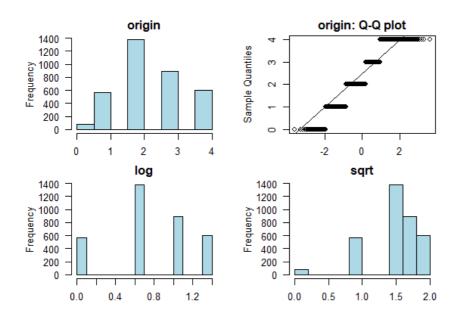


[Comp_rating]

normality test: Shapiro-Wilk normality test

statistic : 0.89856, p-value : 2.18127E-43

skewness and kurtosis		
type	skewness	kurtosis
original	0.004223	2.353191
log transformation	NaN	NaN
sqrt transformation	-1.223634	5.965823

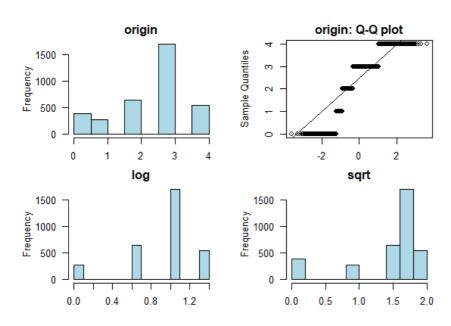


[Work_life]

statistic : 0.83563, p-value : 2.99917E-51

skewness and kurtosis

type	skewness	kurtosis
original	-0.8664152	2.939154
log transformation	NaN	NaN
sqrt transformation	-1.7303527	4.959731

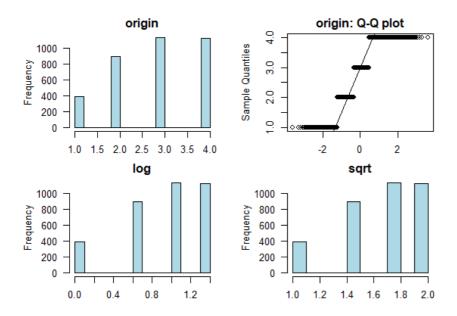


[Stresslevel]

normality test: Shapiro-Wilk normality test

statistic : 0.85749, p-value : 7.46124E-49

type	skewness	kurtosis
original	-0.3602453	2.026329
log transformation	-1.0259904	3.206498
sqrt transformation	-0.6699032	2.497895



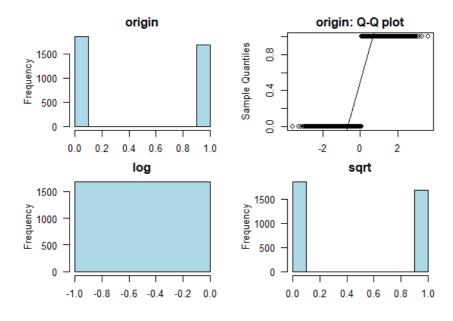
[Accept_offer]

normality test: Shapiro-Wilk normality test

statistic : 0.63575, p-value : 1.08201E-65

S	kewn	ess a	and	kur	tosis

type	skewness	kurtosis
original	0.0982186	1.009647
log transformation	NaN	NaN
sqrt transformation	0.0982186	1.009647



3 Relationship Between Variables

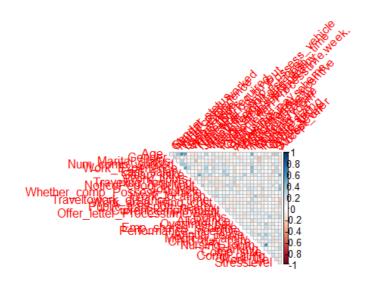
3.1 Correlation Coefficient

3.1.1 Correlation Coefficient by Variable Combination

Table of correlation coefficients (0.5 or more)

Variable1	Variable2	Correlation Coefficient
Work_Experience	Age	0.6235723
Comp_size	Nursing_room	0.5839116
Last_salary	Age	0.5692967
Last_salary	Work_Experience	0.5513739
Medical_Family	Age	0.5123972
NoticePeriod_buyout	Salary_hike	0.5046585

3.1.2 Correlation Plot of Numerical Variables



4 Target based Analysis

4.1 Grouped Descriptive Statistics

4.1.1 Grouped Numerical Variables

There is no target variable.

4.1.2 Grouped Categorical Variables

There is no target variable.

4.2 Grouped Relationship Between Variables

4.2.1 Grouped Correlation Coefficient

There is no target variable.

4.2.2 Grouped Correlation Plot of Numerical Variables

There is no target variable.