Research on Prediction of Credit Card Approval Based on Machine Learning

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Contents

1   Introduction

The credit card business has entered a fast-rising development stage after an incremental transformation from the traditional payment to E-payment. Major banks and related financial institutions increase the issuance of credit cards with the growing demand and high profits of credit card business. However, high profits are accompanied by high risks, especially in the cases of facing hundreds of thousands credit card applications from potential customers. In the actual situation, credit risk management system is set up for meeting the tremendous demand of credit card application while the increasing Probability of Default (PD), brought up by individuals who cannot pay back the loans, appears accordingly. In order to control and monitor the credit risk, the traditional credit assessment approach is an artificial credit risk assessment, which is performed by credit risk analysts who review the information submitted by credit card applicants, generally including customer personal data (age, ID card, etc.), work (income, occupation, etc.), individual assets, stability of repayment capacity, and so on. Banks and financial institutions value the repayment ability of cardholders. In other words, the stronger the repayment ability, the easier to issue credit cards will be. Nowadays, there are more and more people who apply for credit cards, and the bank's credit card business system gradually reflects the characteristics of large issuance, frequent transactions, and comprehensive and accurate transaction information. It's even clearer that traditional manual estimation is no longer able to complete these tasks. Under such circumstances, a set of practical prediction models that decide whether or not to approve these applications and monitor the credit risk, will be necessary. The traditional model and techniques cannot satisfy the current situation. For this reason, this report "Research on Prediction of Credit Card Approval Based on Machine Learning" aims to address the problem of forecasting credit risk by the use of an emerging technique "Machine Learning", and this project is based on the public dataset **"credit card approval prediction" from Kaggle**, the U.S. data competition platform. Our ultimate purpose is using machine learning approaches based on **mlr3 R package**, such as logistic regression, KNN, random forest model, etc. to establish a credit card risk assessment model to determine whether the applicant would overdue or not repay the loan and achieved a quantitative analysis of personal credit risk.

The flowchart below (Figure 1) illustrates the process of our experiment. It is steps are as following:

1. Preparing the data and defining the target variable;
2. Dealing with missing values by using different methods;
3. Transforming nominal variables into numeric variables;
4. Training all datasets with multiple models;
5. Selecting one dataset for fine-tuning;
6. Fine-tuning all models with the selected dataset.
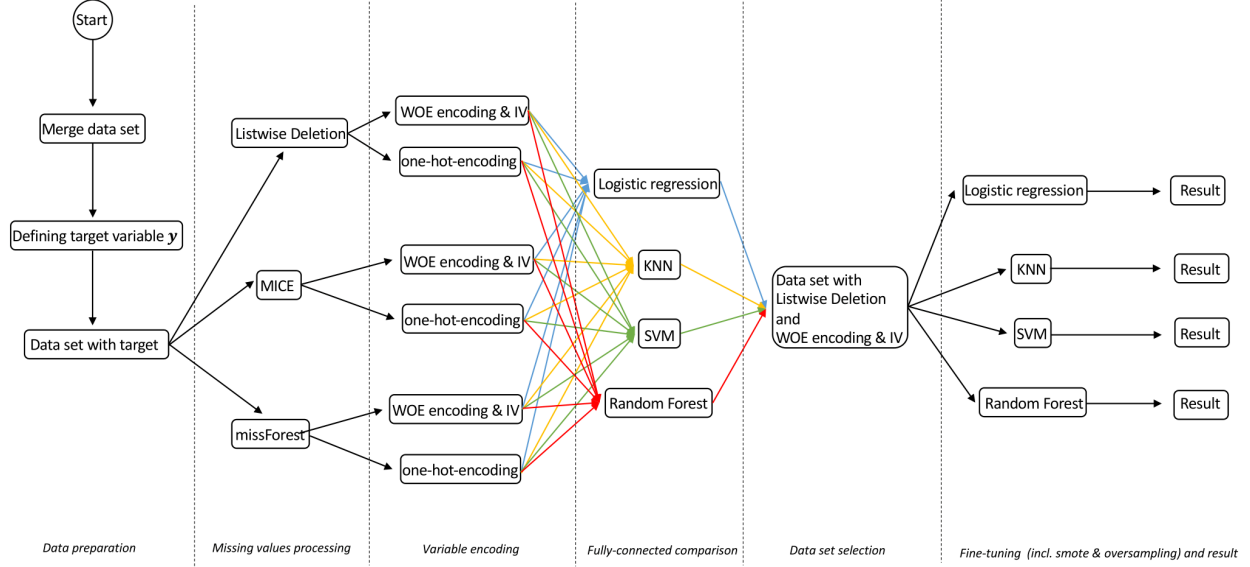
Figure 1: Flowchart: process of experiment

2 Data

According to (Bishop, Christopher (2006)), in machine learning, a feature is an individual measurable property or characteristic of a phenomenon being observed, and the concept of "feature" is related to that of explanatory variables used in statistic application. Therefore, both concepts mentioned in this report are the same based upon the definition of feature and variable. In this study, all features are classified into three kinds of variables according to their data type: binary variables, categorical variables, and continuous variables. The description of all features and a self-defined response variable will be provided in this section.

2.1 Reading data

The raw data, which consists of two data set **application_record.csv** and **credit_record.csv**, given by an Excel file in the csv format.

One of the most straightforward ways to import an Excel file into R is using the **read_csv** function. It is good practice to conduct a preliminary examination after importing the raw data, in order to ensure that the imported data has the expected format:

```r
library(readr)

# read dataset
application_data <- read_csv("./data/application_record.csv")
record <- read_csv("./data/credit_record.csv")
```

2.2 Defining response variable

The following code describes the process of defining the response variable with the name **y**. For some operations we rely on the **dplyr** package.

```r
library(dplyr)



# we first group all data from the credit record by "ID"
# then extract the minimum snapshot date indictating when an account is opened
opentime_data <- record %>%
  group_by(ID) %>%
  filter(MONTHS_BALANCE == min(MONTHS_BALANCE)) %>%
  select(ID, MONTHS_BALANCE) %>%
  rename(opentime = MONTHS_BALANCE)

# merge two dataset based on the common variable "ID"
data_with_day <- left_join(application_data, opentime_data, by = "ID")
```

[reference] https://www.bankingsupervision.europa.eu/ecb/pub/pdf/guidance_on_npl.en.pdf

A payment default is in simple terms an overdue account. In short, in most cases it arises when a debt has become overdue, and based on the Basel Agreement (2007) and Guidance to banks on non-performing loans from European Central Bank (ECB), the potential client, whose debt is not paid more than 60 days of the payment date printed on the invoice by the credit provider or the lender has reason to believe that the loan will not be repaid, will be classified as risk users.

```r
unique(record$STATUS)
```

```
## [1] "X" "0" "C" "1" "2" "3" "4" "5"
```

Variable **STATUS** in the data set **record** describes the overdue status, which is used to define the target in this project. The following table shows all values of the varibale $STATUS$ and corresponding meanings:

Value	Meaning
"X"	No loan for the month
"0"	1-29 days past due
"C"	Paid off that month
"1"	30-59 days past due
"2"	60-89 days overdue
"3"	90-119 days overdue
"4"	120-149 days overdue
"5"	Overdue or bad debts, write-offs for more than 150 days

```r
create_target <- function(x) {
  if (x == "2" | x == "3" | x == "4" | x == "5") {
    return(TRUE)
  } else {
    return(FALSE)
  }
}
```

The following code shows how to define the target varible **y** by using the pre-defined function "create_target". As a result, the target varible is a binary variable, "1" means that the credit card application should not be approved.

```r
library(purrr)

# compute variable "target" with function "create_target", and save it in new_record
new_record <- record %>% mutate(target = map_dbl(record$STATUS, create_target))

# sum the value of variable "target" for each group(grouped by ID).
data_target <- new_record %>%
  group_by(ID) %>%
  summarise(y = sum(target))

# for each ID, if the target value >0, means there is at least one TRUE under the ID number,
# if an ID has one TURE, means this person has been overdue at least 60 days.
# then we mark this ID as 1,means we will not approve the application.
data_target$y <- map_dbl(data_target$y, function(x) ifelse(x > 0, 1, 0))

round(prop.table(table(data_target$y)), digits = 2)
```

```
##
##    0    1
## 0.99 0.01
```

The above result shows that only 1% of records are classified as risk users. From that point of view, due to the imbalanced distribution of the target variable, it is necessary to utilize an appropriate technique to deal with this problem by training the model.

```r
# merge two data with method inner_join.
data <- inner_join(data_with_day, data_target, by = "ID")

# convert all character data into facotr datatype.
final_data <- data %>%
  mutate_if(is.character, as.factor) %>%
  mutate(y = as.factor(y))

# check data
str(final_data)
```

```
## tibble [36,457 x 20] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
##  $ ID                : num [1:36457] 5008804 5008805 5008806 5008808 5008809 ...
##  $ CODE_GENDER       : Factor w/ 2 levels "F","M": 2 2 2 1 1 1 1 1 1 1 ...
##  $ FLAG_OWN_CAR      : Factor w/ 2 levels "N","Y": 2 2 2 1 1 1 1 1 1 1 ...
##  $ FLAG_OWN_REALTY   : Factor w/ 2 levels "N","Y": 2 2 2 2 2 2 2 2 2 2 ...
##  $ CNT_CHILDREN      : num [1:36457] 0 0 0 0 0 0 0 0 0 0 ...
##  $ AMT_INCOME_TOTAL  : num [1:36457] 427500 427500 112500 270000 270000 ...
##  $ NAME_INCOME_TYPE  : Factor w/ 5 levels "Commercial associate",..: 5 5 5 1 1 1 1 2 2 2 ...
##  $ NAME_EDUCATION_TYPE: Factor w/ 5 levels "Academic degree",..: 2 2 5 5 5 5 5 2 2 2 ...
##  $ NAME_FAMILY_STATUS : Factor w/ 5 levels "Civil marriage",..: 1 1 2 4 4 4 4 3 3 3 ...
##  $ NAME_HOUSING_TYPE  : Factor w/ 6 levels "Co-op apartment",..: 5 5 2 2 2 2 2 2 2 2 ...
##  $ DAYS_BIRTH        : num [1:36457] -12005 -12005 -21474 -19110 -19110 ...
##  $ DAYS_EMPLOYED     : num [1:36457] -4542 -4542 -1134 -3051 -3051 ...
##  $ FLAG_MOBIL        : num [1:36457] 1 1 1 1 1 1 1 1 1 1 ...
##  $ FLAG_WORK_PHONE   : num [1:36457] 1 1 0 0 0 0 0 0 0 0 ...
##  $ FLAG_PHONE        : num [1:36457] 0 0 0 1 1 1 1 0 0 0 ...
##  $ FLAG_EMAIL        : num [1:36457] 0 0 0 1 1 1 1 0 0 0 ...
##  $ OCCUPATION_TYPE   : Factor w/ 18 levels "Accountants",..: NA NA 17 15 15 15 15 NA NA NA ...
##  $ CNT_FAM_MEMBERS   : num [1:36457] 2 2 2 1 1 1 1 1 1 1 ...
```

```
## $ opentime           : num [1:36457] -15 -14 -29 -4 -26 -26 -38 -20 -16 -17 ...
## $ y                  : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 1 1 1 ...
# remove irrelevant variable "ID" and "FLAG_MOBIL"
final_data <- final_data %>% select(-ID, -FLAG_MOBIL)

# print dimension of the data (number of entries, number of variables)
dim(final_data)
```

[1] 36457   18

After performing the above code, we can get a final data set with 36,457 observations of 18 variables and we assume that the variable **y** (binary variable with 0 and 1) is our ultimate target variable to decide for the final decision regarding whether or not the issue shall be approved. Also, we may need to turn the data set into data frame in order to facilitate the following data processing procedures.

```
# turnning the data into data frame
to_imp_data <- final_data %>% as.data.frame()

# list all variables (column name)
names(final_data)
```

```
##  [1] "CODE_GENDER"        "FLAG_OWN_CAR"       "FLAG_OWN_REALTY"
##  [4] "CNT_CHILDREN"       "AMT_INCOME_TOTAL"   "NAME_INCOME_TYPE"
##  [7] "NAME_EDUCATION_TYPE" "NAME_FAMILY_STATUS" "NAME_HOUSING_TYPE"
## [10] "DAYS_BIRTH"         "DAYS_EMPLOYED"      "FLAG_WORK_PHONE"
## [13] "FLAG_PHONE"         "FLAG_EMAIL"         "OCCUPATION_TYPE"
## [16] "CNT_FAM_MEMBERS"    "opentime"           "y"
```

Three different variable types (e.g. binary, categorical and continuous variable) in the final data set will be introduced in detail as follows.

2.3 Data types

2.3.1 Binary variable

Binary variable is a type of disrete random variable which only take two possible values. While many variables and questions are naturally binary e.g. gender and "yes or no" question. The following table shows six binary variables used to record the personal information:

Name of variable in R	Meaning	Value
"CODE_GENDER"	Gender	• "F": Female • "M": Male
"FLAG_OWN_CAR"	Having a car or not	• "Y": Yes • "N": No
"FLAG_OWN_REALTY"	Having house reality or not	• "Y": Yes • "N": No
"FLAG_PHONE"	Having a phone or not	• "1": Yes • "0": No
"FLAG_EMAIL"	Having an email or not	• "1": Yes • "0": No

Name of variable in R	Meaning	Value
"FLAG_WORK_PHONE"	Having a Work Phone or not	• "1": Yes • "0": No

2.3.2 Categorical variable

A categorical variable is a type of statistical variable that can take on one of a finite and usually fixed number of possible values. Examples of categorical variables include different types of occupation (e.g. Core staff, Sales staff, High skill tech staff). Based on previously known qualitative properties, this kind of variable assigns each individual or other single unit of observed objects to a specific group or nominal category. five categorical varibales include the following:

Name of variable in R	Meaning	Value
"NAME_INCOME_TYPE"	Income type (5 types)	• "Pensioner" • "Working" . . .
"OCCUPATION_TYPE"	Occupation Type (18 types)	• "Core staff" • "Sales staff" . . .
"NAME_HOUSING_TYPE"	House Type (6 types)	• "With parents" • "House / apartment" . . .
"NAME_EDUCATION_TYPE"	Education (5 types)	• "Higher education" • "Incomplete higher" . . .
"NAME_FAMILY_STATUS"	Marriage Condition (5 types)	• "Married" • "Separated" . . .

2.3.3 Continuous variable

A continuous variable is a type of numerical variables which may take on infinite values and is always collected in the form of numbers, despite the fact that other types of data also appear in the form of numbers. Examples of continuous variables include the annual income, and the number of children is not classified as categorical varibale but continuous variable in this project. The value of age is not intuitive, because it is calculated based on the actual number of days not years and represented as negative value due to the benchmark setting. The following table describes all continuous varibales used in this project:

Name of variable in R	Meaning	Value
"CNT_CHILDREN"	Children Numbers	• "0" • "1" . . .
"AMT_INCOME_TOTAL"	Annual Income	• "427500" • "112500" . . .
"DAYS_BIRTH"	Age	• "-12005" • "-21474" . . .
"DAYS_EMPLOYED"	Working Days |	• "-4542" • "-1134" . . .

Name of variable in R	Meaning	Value
"CNT_FAM_MEMBERS"	Famliy Size	• "1" • "2" ...
"opentime"	Duration of accout (Month)	• "-15" • "-14" ...

3 Missing values processing

```
summary(final_data)
```

```
##   CODE_GENDER FLAG_OWN_CAR FLAG_OWN_REALTY  CNT_CHILDREN
##   F:24430     N:22614      N:11951         Min.   : 0.0000
##   M:12027     Y:13843      Y:24506         1st Qu.: 0.0000
##                                            Median : 0.0000
##                                            Mean   : 0.4303
##                                            3rd Qu.: 1.0000
##                                            Max.   :19.0000
##
##   AMT_INCOME_TOTAL              NAME_INCOME_TYPE
##   Min.   :  27000   Commercial associate: 8490
##   1st Qu.: 121500   Pensioner           : 6152
##   Median : 157500   State servant       : 2985
##   Mean   : 186686   Student             :   11
##   3rd Qu.: 225000   Working             :18819
##   Max.   :1575000
##
##                     NAME_EDUCATION_TYPE         NAME_FAMILY_STATUS
##   Academic degree              :   32   Civil marriage     : 2945
##   Higher education             : 9864   Married            :25048
##   Incomplete higher            : 1410   Separated          : 2103
##   Lower secondary              :  374   Single / not married: 4829
##   Secondary / secondary special:24777   Widow              : 1532
##
##
##            NAME_HOUSING_TYPE   DAYS_BIRTH      DAYS_EMPLOYED
##   Co-op apartment    :  168   Min.   :-25152   Min.   :-15713
##   House / apartment  :32548   1st Qu.:-19438   1st Qu.: -3153
##   Municipal apartment: 1128   Median :-15563   Median : -1552
##   Office apartment   :  262   Mean   :-15975   Mean   : 59263
##   Rented apartment   :  575   3rd Qu.:-12462   3rd Qu.:  -408
##   With parents       : 1776   Max.   : -7489   Max.   :365243
##
##   FLAG_WORK_PHONE    FLAG_PHONE       FLAG_EMAIL         OCCUPATION_TYPE
##   Min.   :0.0000   Min.   :0.0000   Min.   :0.00000   Laborers   : 6211
##   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:0.00000   Core staff : 3591
##   Median :0.0000   Median :0.0000   Median :0.00000   Sales staff: 3485
##   Mean   :0.2255   Mean   :0.2948   Mean   :0.08972   Managers   : 3012
##   3rd Qu.:0.0000   3rd Qu.:1.0000   3rd Qu.:0.00000   Drivers    : 2138
##   Max.   :1.0000   Max.   :1.0000   Max.   :1.00000   (Other)    : 6697
##                                                       NA's       :11323
##   CNT_FAM_MEMBERS     opentime        y
##   Min.   : 1.000   Min.   :-60.00   0:35841
##   1st Qu.: 2.000   1st Qu.:-39.00   1:  616
##   Median : 2.000   Median :-24.00
##   Mean   : 2.198   Mean   :-26.16
##   3rd Qu.: 3.000   3rd Qu.:-12.00
##   Max.   :20.000   Max.   :  0.00
##
```

The above result shows that there are 11,323 missing values in the varibale `OCCUPATION_TYPE`, and these

missing values are marked with "NA" that cannot be addressed directly. In order to get a considerably better idea of dealing with the missing data and also to minimize the negative impact of the missing values, it is necessary to implement several methods to cover this issue, which are **listwise deletion** and with the help of two powerful R packages (**MICE** and **missForest**).

3.1 Missing pattern and missing data mechanism

In order to choose an appropriate method to deal with missing values, it is necessary to analyse the corresponding **missing pattern** and **missing data mechanism**, because these approach are based on different assumptions. It is easy to distinguish the missing pattern of this data set by the use of the function **md.pattern** from **MICE** package.

```r
library(mice)

# check the missing pattern by using md.pattern function
mice::md.pattern(to_imp_data, plot = FALSE)
```

```
##       CODE_GENDER FLAG_OWN_CAR FLAG_OWN_REALTY CNT_CHILDREN
## 25134           1            1               1            1
## 11323           1            1               1            1
##                 0            0               0            0
##       AMT_INCOME_TOTAL NAME_INCOME_TYPE NAME_EDUCATION_TYPE
## 25134                1                1                   1
## 11323                1                1                   1
##                      0                0                   0
##       NAME_FAMILY_STATUS NAME_HOUSING_TYPE DAYS_BIRTH DAYS_EMPLOYED
## 25134                  1                 1          1             1
## 11323                  1                 1          1             1
##                        0                 0          0             0
##       FLAG_WORK_PHONE FLAG_PHONE FLAG_EMAIL CNT_FAM_MEMBERS opentime y
## 25134               1          1          1               1        1 1
## 11323               1          1          1               1        1 1
##                     0          0          0               0        0 0
##       OCCUPATION_TYPE
## 25134               1     0
## 11323               0     1
##                 11323 11323
```

The above figure and result illustrate that the corresponding missing pattern is **Univariate Nonresponse**, whereby a single variable `OCCUPATION_TYPE` has missing values, and therefore, the corresponding missing data mechanism could be **Missing Completely At Random (MCAR)**. a brief description of these three missing data mechanism is provided below:

Missing Completely At Random (MCAR): If the events that lead to any specific data item being missing are indepen- dent not only of observable variables but also of unobservable parameters of interest, and if they occur completely at random, then the corresponding missing values in a data set are MCAR

Missing At Random (MAR): In contrast to MCAR data, the MAR mechanism occurs when the missing-ness is not completely random, and can be explained by at least one other variable with complete information. In this case, the missingness proba- bility is related to some of the observed data instead of the missing data itself.

Not Missing At Random (NMAR): When the missing data are NMAR, the missingness has an exclusive relationship with the missing data. In other words, the missingness probability is allowed to be dependent on the missing values themselves.

3.2 Methods

3.2.1 Listwise Deletion

In this section, we simply delete the missing values by using the **na.omit()** function. With this function, we would delete the whole row where the missing values appear.

```
# remove rows with missing values
completeData <- na.omit(final_data)

# check the dataset after deleting
str(completeData)
```

```
## tibble [25,134 x 18] (S3: tbl_df/tbl/data.frame)
##  $ CODE_GENDER       : Factor w/ 2 levels "F","M": 2 1 1 1 1 2 2 2 2 2 ...
##  $ FLAG_OWN_CAR      : Factor w/ 2 levels "N","Y": 2 1 1 1 1 2 2 2 2 2 ...
##  $ FLAG_OWN_REALTY   : Factor w/ 2 levels "N","Y": 2 2 2 2 2 2 2 2 2 2 ...
##  $ CNT_CHILDREN      : num [1:25134] 0 0 0 0 0 0 0 0 0 0 ...
##  $ AMT_INCOME_TOTAL  : num [1:25134] 112500 270000 270000 270000 270000 ...
##  $ NAME_INCOME_TYPE  : Factor w/ 5 levels "Commercial associate",..: 5 1 1 1 1 5 5 1 1 1 ...
##  $ NAME_EDUCATION_TYPE: Factor w/ 5 levels "Academic degree",..: 5 5 5 5 5 2 2 5 5 5 ...
##  $ NAME_FAMILY_STATUS : Factor w/ 5 levels "Civil marriage",..: 2 4 4 4 4 2 2 2 2 2 ...
##  $ NAME_HOUSING_TYPE  : Factor w/ 6 levels "Co-op apartment",..: 2 2 2 2 2 2 2 2 2 2 ...
##  $ DAYS_BIRTH        : num [1:25134] -21474 -19110 -19110 -19110 -19110 ...
##  $ DAYS_EMPLOYED     : num [1:25134] -1134 -3051 -3051 -3051 -3051 ...
##  $ FLAG_WORK_PHONE   : num [1:25134] 0 0 0 0 0 1 1 0 0 0 ...
##  $ FLAG_PHONE        : num [1:25134] 0 1 1 1 1 1 1 0 0 0 ...
##  $ FLAG_EMAIL        : num [1:25134] 0 1 1 1 1 1 1 0 0 0 ...
##  $ OCCUPATION_TYPE   : Factor w/ 18 levels "Accountants",..: 17 15 15 15 15 1 1 9 9 9 ...
##  $ CNT_FAM_MEMBERS   : num [1:25134] 2 1 1 1 1 2 2 2 2 2 ...
##  $ opentime          : num [1:25134] -29 -4 -26 -26 -38 -5 -42 -17 -16 -8 ...
##  $ y                 : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 1 1 1 ...
##  - attr(*, "na.action")= 'omit' Named int [1:11323] 1 2 8 9 10 24 25 70 135 136 ...
##   ..- attr(*, "names")= chr [1:11323] "1" "2" "8" "9" ...
```

After deleting, there are only 25,134 rows left for data analysis which means we have removed for more than 30 percent of the raw data. Therefore, a significant negative impact of listwise deletion is that it reduces the the sample size. However, the benifit of it is that it does not lead to the reduction of variability in the data, which implies that the standard deviations and variance estimates are likely to be the same, if the missing data mechanism is MCAR.

An initial guess without comparison with these methods is that listwise deletion is probably better than the other two **Multiple Imputation (MI)** methods, the possible reason is that the missing data mechanism in this case is MCAR, based on which the potential distribution by the use of listwise deletion does not change very much. In addition to this, imputing the missing values could also introduce additional errors in the original data set. The comparison results will also be provided in the subsequent section.

3.2.2 Multiple imputation with MICE package

In contrast to listwise deletion, MI considers statistical uncertainty when imputing missing values. One of the two powerful R-packages that handle missing data is multivariate imputation by chained equations (MICE), also called "sequential regression multiple imputation" or "fully conditional specification." This is one of the most important methods used to address and impute missing data. In consideration of the flexibility of chained equations, MICE can handle various types of variables in the data set, such as continuous variables, categorical variables, and mixed-type variables. If the distribution of each variable in the data set is already established, this method is more applicable. For example, if a variable fits the normal distribution then specific approaches can be defined in advance to impute the missing values of this variable by using the

`mice()` function. Even if no appropriate multivariate distribution can be found, MICE remains an applicable option; this implies that MICE is suitable for data sets composed of mixed-type data. In conclusion, for the application of MICE the specific distribution of each variable in the data set should be defined in advance, which is based on a univariate distribution. The R-package MICE uses the FCS algorithm, which imputes each variable with missing values in the data set by conducting several repetitions.

Regarding the application of MICE, two assumptions should be taken into consideration. The first assumption is that the missing data mechanism is MAR. If data are not MAR, biased results are likely to be obtained when applying MICE. However, in order to compare the performance of MICE under the circumstances of different missing data mechanisms, MICE is also implemented in the cases of MCAR and NMAR data. The second assumption concerns the size of the data set. In practice, data sets tend to be large in size, which implies that they include thou- sands of observations and hundreds of variables (He et al.(2009); Stuart et al.(2009)). Furthermore, in these large data sets a high variety of variables often exists. Based on the large size of data sets, a large joint model for all of the various types of variables should be fitted. With the help of the flex- ibility of MICE a series of regression models is run for each variable with missing data, which are based on the distribution of each variable. For the purposes of operability and objective comparison between different impu- tation methods, the data set in this simulation study is not large.

When using the **MICE** function, there are 2 prime parameters that need to be configured. One parameter is **m**, intended for the number of imputed dataset that we would like to generate. As a result, 1 is enough. And the other is **meth**, designed for the methods we have chosen to undergo the regression. Here, we are using the "polyreg", Bayesian polytomous regression, due to reason that these missing values all belong to factor variables.

```
# imputed data with mice function
tempData <- mice(to_imp_data, m = 1, meth = "polyreg", seed = 2020)
```

```
##
##  iter imp variable
##   1   1  OCCUPATION_TYPE
##   2   1  OCCUPATION_TYPE
##   3   1  OCCUPATION_TYPE
##   4   1  OCCUPATION_TYPE
##   5   1  OCCUPATION_TYPE
```

```
# to extract the imputed data with the assigned column name "OCCUPATION_TYPE"
tempData$imp$OCCUPATION_TYPE
```

```
##                         1
## 1               Managers
## 2               Managers
## 8               HR staff
## 9               HR staff
## 10              HR staff
## 24               Drivers
## 25           Sales staff
## 70              HR staff
## 135             Laborers
## 136             Laborers
## 137           Core staff
## 138       Security staff
## 147             Laborers
## 148              Drivers
## 149             Laborers
## 150       Security staff
## 151   Waiters/barmen staff
## 152   Waiters/barmen staff
```

```
## 153           Cleaning staff
## 154     Waiters/barmen staff
## 155               HR staff
## 156               HR staff
## 157               HR staff
## 183             Core staff
## 184             Core staff
## 185             Core staff
## 186             Core staff
## 187             Core staff
## 188             Core staff
## 189               HR staff
## 190             Core staff
## 197               HR staff
## 198               HR staff
## 199               HR staff
## 200               HR staff
## 201               HR staff
## 202               HR staff
## 219               HR staff
## 258            Sales staff
## 259             Core staff
## 260            Sales staff
## 261             Core staff
## 262            Sales staff
## 263         Security staff
## 264             Core staff
## 265             Core staff
## 266            Sales staff
## 267             Core staff
## 268            Sales staff
## 269             Core staff
## 270             Core staff
## 271         Medicine staff
## 272               HR staff
## 273               HR staff
## 274               HR staff
## 275               HR staff
## 276               HR staff
## 277               HR staff
## 278               HR staff
## 279               HR staff
## 282               HR staff
## 283               HR staff
## 306               HR staff
## 357   High skill tech staff
## 358            Sales staff
## 359            Sales staff
## 372               HR staff
## 399               HR staff
## 400               HR staff
## 405               HR staff
## 406               HR staff
## 407               HR staff
```

```
## 408                HR staff
## 409                HR staff
## 410                HR staff
## 411                HR staff
## 412                HR staff
## 413                HR staff
## 414                HR staff
## 415                HR staff
## 416                HR staff
## 417                HR staff
## 418                HR staff
## 419                HR staff
## 420                HR staff
## 421                HR staff
## 422                HR staff
## 456                HR staff
## 457                HR staff
## 458                HR staff
## 459                HR staff
## 460                HR staff
## 461                HR staff
## 501                HR staff
## 502                HR staff
## 506     Waiters/barmen staff
## 507                HR staff
## 508                HR staff
## 509          Cleaning staff
## 510                HR staff
## 511                HR staff
## 512                HR staff
## 513          Medicine staff
## 514             Core staff
## 515               Drivers
## 516          Medicine staff
## 517              Managers
## 529            Sales staff
## 530             Core staff
## 531          Medicine staff
## 532             Core staff
## 533            Sales staff
## 534             Core staff
## 535                HR staff
## 536          Medicine staff
## 537   High skill tech staff
## 538             Core staff
## 539             Core staff
## 540              Laborers
## 543            Sales staff
## 544              Laborers
## 545              Laborers
## 572            Sales staff
## 573            Sales staff
## 574   Private service staff
## 575            Sales staff
```

```
## 576                 Managers
## 577               Sales staff
## 578               Accountants
## 579     Private service staff
## 598                  HR staff
## 599                  HR staff
## 600                  HR staff
## 613                  HR staff
## 614                  HR staff
## 615                  HR staff
## 616                  HR staff
## 617                  HR staff
## 623                  Laborers
## 624     High skill tech staff
## 625                  HR staff
## 626                  HR staff
## 645                  HR staff
## 646                  HR staff
## 659                  HR staff
## 660            Security staff
## 661                  HR staff
## 662            Security staff
## 663                Core staff
## 664               Accountants
## 669             Medicine staff
## 670             Medicine staff
## 671     Private service staff
## 672             Medicine staff
## 673                  Laborers
## 674                Core staff
## 675                Core staff
## 676                   Drivers
## 677     High skill tech staff
## 678                  Managers
## 679                  Laborers
## 680                  HR staff
## 681                  HR staff
## 682            Cleaning staff
## 683                  HR staff
## 684                  HR staff
## 687                  HR staff
## 688                  HR staff
## 689                  HR staff
## 690                  HR staff
## 691                  HR staff
## 692                  HR staff
## 693                  HR staff
## 694                  HR staff
## 695                  HR staff
## 696                  HR staff
## 697                  HR staff
## 698                  HR staff
## 699                  HR staff
## 700                  HR staff
```

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## 701                   HR staff
## 702                   HR staff
## 703                   HR staff
## 704                   HR staff
## 705                   HR staff
## 712                   HR staff
## 713                   HR staff
## 714                   HR staff
## 715                   HR staff
## 716                   HR staff
## 722                   Laborers
## 723              Cooking staff
## 724                   Laborers
## 725                    Drivers
## 726      Waiters/barmen staff
## 727                Sales staff
## 728                    Drivers
## 729             Medicine staff
## 748                   Laborers
## 749                Accountants
## 750                   Managers
## 751                Sales staff
## 752                Accountants
## 753                 Core staff
## 754                 Core staff
## 773                   HR staff
## 774                   HR staff
## 775                   HR staff
## 776                   HR staff
## 777                   HR staff
## 778                   HR staff
## 779                   HR staff
## 780                   HR staff
## 781                   HR staff
## 782                   HR staff
## 783       High skill tech staff
## 784                   Managers
## 785                Accountants
## 786                   Managers
## 787                Sales staff
## 788                Accountants
## 789                Accountants
## 855             Cleaning staff
## 856             Cleaning staff
## 857             Cleaning staff
## 858                   HR staff
## 859      Waiters/barmen staff
## 860      Waiters/barmen staff
## 861             Security staff
## 862                   HR staff
## 863                   HR staff
## 902                Sales staff
## 903                   HR staff
## 908             Cleaning staff
```

```
## 909               Laborers
## 910               Laborers
## 911   High skill tech staff
## 912             Sales staff
## 913               Laborers
## 914               Laborers
## 915                Drivers
## 931               HR staff
## 932               HR staff
## 933               HR staff
## 948               HR staff
## 949               HR staff
## 955              Core staff
## 956             Sales staff
## 957          Medicine staff
## 958              Core staff
## 959              Core staff
## 960              Core staff
## 961             Sales staff
## 967          Security staff
## 968               HR staff
## 969               HR staff
## 970               HR staff
## 971               HR staff
## 972          Cleaning staff
## 973          Security staff
## 989              Core staff
## 990               Laborers
## 991             Sales staff
## 992              Core staff
## 993              Core staff
## 994               Laborers
## 995               Laborers
## 1023              HR staff
## 1024         Security staff
## 1025         Security staff
## 1026              HR staff
## 1027              HR staff
## 1028              HR staff
## 1029              HR staff
## 1030              HR staff
## 1031              HR staff
## 1032              HR staff
## 1033              HR staff
## 1034              HR staff
## 1036  Private service staff
## 1042              Laborers
## 1051              HR staff
## 1052              HR staff
## 1053              HR staff
## 1054              HR staff
## 1055         Security staff
## 1056         Cleaning staff
## 1057         Security staff
```

```
## 1058                HR staff
## 1067  High skill tech staff
## 1068              Laborers
## 1080               Drivers
## 1081  High skill tech staff
## 1082              Managers
## 1083           Sales staff
## 1084               Drivers
## 1093               HR staff
## 1094         Cleaning staff
## 1096               HR staff
## 1097               HR staff
## 1110             Core staff
## 1111               Drivers
## 1112               Drivers
## 1113              Managers
## 1146               Drivers
## 1147              Managers
## 1148              Managers
## 1149               Drivers
## 1150               Drivers
## 1151           Sales staff
## 1152              Managers
## 1153             Core staff
## 1154               Drivers
## 1155              Managers
## 1156             Core staff
## 1157            Secretaries
## 1158              Managers
## 1159              Managers
## 1160              Managers
## 1161              Managers
## 1162              Managers
## 1163              Managers
## 1164               Drivers
## 1165               Drivers
## 1166               Drivers
## 1167              Managers
## 1168              Managers
## 1169               HR staff
## 1170               HR staff
## 1171               HR staff
## 1172         Cleaning staff
## 1173               HR staff
## 1174               HR staff
## 1175               HR staff
## 1176               HR staff
## 1177               HR staff
## 1178         Security staff
## 1187            Accountants
## 1188         Medicine staff
## 1189             Core staff
## 1190               HR staff
## 1191               HR staff
```

```
## 1192                  HR staff
## 1206                  HR staff
## 1207                  HR staff
## 1208                  HR staff
## 1209                  HR staff
## 1210                  HR staff
## 1211                  HR staff
## 1212            Cleaning staff
## 1213                  HR staff
## 1214                  HR staff
## 1215                  HR staff
## 1216                  HR staff
## 1217                  HR staff
## 1218                  HR staff
## 1219                  HR staff
## 1220                  HR staff
## 1221                  HR staff
## 1222                  HR staff
## 1223                  HR staff
## 1224                  HR staff
## 1225                  HR staff
## 1226                  HR staff
## 1227                  HR staff
## 1228                  HR staff
## 1229                  HR staff
## 1238  High skill tech staff
## 1249                  HR staff
## 1250                  HR staff
## 1251                  HR staff
## 1252                  HR staff
## 1253                  HR staff
## 1254                  HR staff
## 1255                  HR staff
## 1256                  HR staff
## 1257                  HR staff
## 1258                  HR staff
## 1259                  HR staff
## 1260                  HR staff
## 1261                  HR staff
## 1273                  HR staff
## 1274                  HR staff
## 1275            Cleaning staff
## 1276                  HR staff
## 1277                  HR staff
## 1278                  HR staff
## 1279            Cleaning staff
## 1280                  HR staff
## 1281                  HR staff
## 1282            Cleaning staff
## 1300                  HR staff
## 1301                  HR staff
## 1302                  HR staff
## 1303                  HR staff
## 1304            Cleaning staff
```

```
## 1305                HR staff
## 1306                HR staff
## 1307                HR staff
## 1308         Cleaning staff
## 1309                HR staff
## 1310                HR staff
## 1311                HR staff
## 1312    Waiters/barmen staff
## 1313                HR staff
## 1332                Drivers
## 1333            Sales staff
## 1334                Drivers
## 1335               Managers
## 1336            Sales staff
## 1337                Drivers
## 1338               Managers
## 1339                HR staff
## 1340         Security staff
## 1341         Security staff
## 1342                HR staff
## 1343         Cleaning staff
## 1344                HR staff
## 1349                Drivers
## 1350                Drivers
## 1351               Laborers
## 1352             Core staff
## 1353            Sales staff
## 1379         Security staff
## 1380         Cleaning staff
## 1381                HR staff
## 1426                HR staff
## 1427                HR staff
## 1428                HR staff
## 1429                HR staff
## 1430                HR staff
## 1431                HR staff
## 1441                HR staff
## 1442                HR staff
## 1443                HR staff
## 1444                HR staff
## 1445                HR staff
## 1450    Waiters/barmen staff
## 1451    Waiters/barmen staff
## 1452                HR staff
## 1453                HR staff
## 1454         Security staff
## 1455                Drivers
## 1456               Managers
## 1457            Accountants
## 1458         Cleaning staff
## 1459   High skill tech staff
## 1469                HR staff
## 1470                HR staff
## 1471    Waiters/barmen staff
```

```
## 1472            Core staff
## 1473              HR staff
## 1499         Cooking staff
## 1500             Laborers
## 1501             Managers
## 1516              Drivers
## 1517            Core staff
## 1518        Security staff
## 1519             Laborers
## 1557              HR staff
## 1558              HR staff
## 1559        Security staff
## 1560              HR staff
## 1561              HR staff
## 1562              HR staff
## 1563              HR staff
## 1576  High skill tech staff
## 1583              HR staff
## 1634              HR staff
## 1635              HR staff
## 1639              HR staff
## 1640        Cleaning staff
## 1641        Medicine staff
## 1642        Medicine staff
## 1643             Laborers
## 1660   Waiters/barmen staff
## 1661              HR staff
## 1662              HR staff
## 1663        Security staff
## 1664              HR staff
## 1665              HR staff
## 1666              HR staff
## 1667              HR staff
## 1669        Security staff
## 1670              HR staff
## 1671              HR staff
## 1672              HR staff
## 1673              HR staff
## 1674              HR staff
## 1675              HR staff
## 1684              HR staff
## 1685              HR staff
## 1686              HR staff
## 1702             Laborers
## 1703        Medicine staff
## 1704           Sales staff
## 1705        Medicine staff
## 1706             Laborers
## 1707              Drivers
## 1708        Medicine staff
## 1709           Accountants
## 1710           Sales staff
## 1711              Drivers
## 1712              HR staff
```

```
## 1746                HR staff
## 1747                HR staff
## 1785  High skill tech staff
## 1786             Sales staff
## 1787             Sales staff
## 1788                HR staff
## 1789          Cleaning staff
## 1790                HR staff
## 1791  Waiters/barmen staff
## 1792                HR staff
## 1793                HR staff
## 1794                HR staff
## 1795                HR staff
## 1796                HR staff
## 1797                HR staff
## 1798                HR staff
## 1818                HR staff
## 1827                HR staff
## 1828                HR staff
## 1829                HR staff
## 1830                HR staff
## 1831                HR staff
## 1832                HR staff
## 1833                Laborers
## 1834                Laborers
## 1835                 Drivers
## 1836          Medicine staff
## 1837             Secretaries
## 1838             Secretaries
## 1839          Cleaning staff
## 1840                Laborers
## 1841                Laborers
## 1842                Laborers
## 1843                Managers
## 1844             Accountants
## 1845                Managers
## 1847                HR staff
## 1848                HR staff
## 1849          Cleaning staff
## 1850          Cleaning staff
## 1851          Cleaning staff
## 1852          Cleaning staff
## 1853                HR staff
## 1854          Cleaning staff
## 1858                HR staff
## 1864                HR staff
## 1865                HR staff
## 1866          Cleaning staff
## 1877             Accountants
## 1878             Accountants
## 1879                Managers
## 1880                Managers
## 1881                 Drivers
## 1882             Sales staff
```

```
## 1883              Managers
## 1884              HR staff
## 1912   Waiters/barmen staff
## 1913              HR staff
## 1914              HR staff
## 1915              HR staff
## 1916              HR staff
## 1917              HR staff
## 1918              HR staff
## 1919              HR staff
## 1920              HR staff
## 1921              HR staff
## 1922              HR staff
## 1923              HR staff
## 1924              HR staff
## 1925        Cleaning staff
## 1926              HR staff
## 1927              HR staff
## 1942              Laborers
## 1943               Drivers
## 1944              Laborers
## 1945              Laborers
## 1946              Laborers
## 1947            Core staff
## 1948              Laborers
## 1949              Laborers
## 1950  High skill tech staff
## 1952              HR staff
## 1953              HR staff
## 1954              HR staff
## 1964            Core staff
## 1993  Private service staff
## 1994              Laborers
## 1995            Core staff
## 1996           Sales staff
## 1997            Core staff
## 2000         Cooking staff
## 2001         Cooking staff
## 2002           Sales staff
## 2029              Laborers
## 2030           Sales staff
## 2031  High skill tech staff
## 2032  High skill tech staff
## 2033              Managers
## 2034            Core staff
## 2035           Sales staff
## 2036           Sales staff
## 2037            Core staff
## 2038           Sales staff
## 2039              Laborers
## 2040              HR staff
## 2041        Security staff
## 2042              HR staff
## 2043              HR staff
```

```
## 2044                HR staff
## 2045                HR staff
## 2046                HR staff
## 2047                HR staff
## 2048                HR staff
## 2049                HR staff
## 2050                HR staff
## 2060                HR staff
## 2080                HR staff
## 2081                HR staff
## 2082                HR staff
## 2083                HR staff
## 2084                HR staff
## 2099                HR staff
## 2100                HR staff
## 2121              Core staff
## 2122               Laborers
## 2123             Sales staff
## 2124              Core staff
## 2127                HR staff
## 2128                HR staff
## 2129                HR staff
## 2130          Cleaning staff
## 2148                HR staff
## 2149                HR staff
## 2151          Security staff
## 2152                HR staff
## 2153                HR staff
## 2154          Security staff
## 2155               Managers
## 2156               Laborers
## 2157              Core staff
## 2158              Core staff
## 2159             Accountants
## 2160             Sales staff
## 2161  High skill tech staff
## 2182             Sales staff
## 2187              Core staff
## 2188               Managers
## 2189              Core staff
## 2190  High skill tech staff
## 2191                Drivers
## 2192          Security staff
## 2193  High skill tech staff
## 2194  High skill tech staff
## 2195              Core staff
## 2196               Managers
## 2206                HR staff
## 2209                HR staff
## 2210                HR staff
## 2211                HR staff
## 2212                HR staff
## 2213                HR staff
## 2214                HR staff
```

```
## 2215              HR staff
## 2216            Core staff
## 2217            Core staff
## 2218              IT staff
## 2219         Realty agents
## 2220 High skill tech staff
## 2221           Sales staff
## 2222 Private service staff
## 2223 High skill tech staff
## 2225             Laborers
## 2231              HR staff
## 2232              HR staff
## 2233        Security staff
## 2234            Core staff
## 2235            Core staff
## 2236             Laborers
## 2237             Managers
## 2238             Laborers
## 2239             Laborers
## 2244              HR staff
## 2245              HR staff
## 2308           Sales staff
## 2309             Managers
## 2310             Managers
## 2311           Sales staff
## 2312               Drivers
## 2313           Sales staff
## 2314             Managers
## 2315 High skill tech staff
## 2316         Realty agents
## 2317           Accountants
## 2318            Core staff
## 2322              HR staff
## 2323              HR staff
## 2324              HR staff
## 2325              HR staff
## 2326              HR staff
## 2343 High skill tech staff
## 2344             Laborers
## 2345           Sales staff
## 2346               Drivers
## 2347               Drivers
## 2348           Accountants
## 2349           Accountants
## 2350            Core staff
## 2403              HR staff
## 2404              HR staff
## 2405              HR staff
## 2406              HR staff
## 2407              HR staff
## 2408              HR staff
## 2412            Core staff
## 2413           Sales staff
## 2414        Medicine staff
```

```
## 2415            Accountants
## 2416            Sales staff
## 2417            Secretaries
## 2418            Sales staff
## 2419                Drivers
## 2420             Core staff
## 2423             Core staff
## 2424            Accountants
## 2425               HR staff
## 2426             Core staff
## 2427             Core staff
## 2428             Core staff
## 2429             Core staff
## 2430             Core staff
## 2431             Core staff
## 2432               Managers
## 2433            Sales staff
## 2434            Accountants
## 2435         Medicine staff
## 2455   Waiters/barmen staff
## 2456         Cleaning staff
## 2457               HR staff
## 2458               HR staff
## 2459               HR staff
## 2460               HR staff
## 2461               HR staff
## 2471         Security staff
## 2472               HR staff
## 2473               HR staff
## 2474         Cleaning staff
## 2479               HR staff
## 2480               HR staff
## 2481               HR staff
## 2482               HR staff
## 2483               HR staff
## 2484               HR staff
## 2485               HR staff
## 2486               HR staff
## 2487               HR staff
## 2488               HR staff
## 2504                Drivers
## 2505            Sales staff
## 2506               Laborers
## 2519             Core staff
## 2520            Sales staff
## 2521            Sales staff
## 2522               HR staff
## 2523               Laborers
## 2524               HR staff
## 2540                Drivers
## 2546            Sales staff
## 2547               Laborers
## 2548               Laborers
## 2549               Laborers
```

```
## 2550                Drivers
## 2551               Laborers
## 2552               Laborers
## 2553               Laborers
## 2554               Laborers
## 2555               Laborers
## 2556               Laborers
## 2557               Laborers
## 2558            Sales staff
## 2559               Laborers
## 2560               Laborers
## 2561             Core staff
## 2562             Core staff
## 2563                Drivers
## 2564          Cooking staff
## 2565               Laborers
## 2566               Laborers
## 2567               Laborers
## 2568                Drivers
## 2569                Drivers
## 2570               Managers
## 2574               HR staff
## 2575               HR staff
## 2586             Secretaries
## 2587               Laborers
## 2588               Laborers
## 2589               Laborers
## 2590               Laborers
## 2596               HR staff
## 2597         Cleaning staff
## 2598               HR staff
## 2599         Cleaning staff
## 2608         Cleaning staff
## 2609     Low-skill Laborers
## 2610             Core staff
## 2611         Cleaning staff
## 2612               Laborers
## 2613         Cleaning staff
## 2614             Core staff
## 2615               Laborers
## 2616               Laborers
## 2622    Waiters/barmen staff
## 2623               HR staff
## 2624         Security staff
## 2625               HR staff
## 2626               HR staff
## 2627               HR staff
## 2628               HR staff
## 2629         Security staff
## 2650             Core staff
## 2651  Private service staff
## 2652             Core staff
## 2653               Managers
## 2654               HR staff
```

```
## 2660          Cleaning staff
## 2661          Security staff
## 2662                HR staff
## 2663          Cleaning staff
## 2671              Core staff
## 2672  High skill tech staff
## 2673                Managers
## 2674             Sales staff
## 2675             Sales staff
## 2676              Core staff
## 2677           Medicine staff
## 2678             Secretaries
## 2679             Accountants
## 2680              Core staff
## 2681             Accountants
## 2682                HR staff
## 2683                HR staff
## 2722                 Drivers
## 2723             Sales staff
## 2729          Cleaning staff
## 2730   Waiters/barmen staff
## 2731                HR staff
## 2732                HR staff
## 2733                HR staff
## 2734                HR staff
## 2735                HR staff
## 2736                HR staff
## 2737             Sales staff
## 2738      Low-skill Laborers
## 2739                Laborers
## 2740                Laborers
## 2741          Cleaning staff
## 2764  High skill tech staff
## 2765             Secretaries
## 2766                HR staff
## 2767                HR staff
## 2768          Security staff
## 2769                HR staff
## 2770                HR staff
## 2771                HR staff
## 2772                HR staff
## 2773                HR staff
## 2774                HR staff
## 2775                HR staff
## 2776                HR staff
## 2777                HR staff
## 2778          Security staff
## 2797                 Drivers
## 2798                Managers
## 2799                Laborers
## 2800           Medicine staff
## 2801          Security staff
## 2802          Security staff
## 2803           Cooking staff
```

```
## 2823     Low-skill Laborers
## 2824              Laborers
## 2825            Core staff
## 2828              HR staff
## 2841              HR staff
## 2858              HR staff
## 2859              HR staff
## 2860              HR staff
## 2861              HR staff
## 2862              HR staff
## 2863              HR staff
## 2864              HR staff
## 2865              HR staff
## 2866              HR staff
## 2867              HR staff
## 2868              HR staff
## 2869              HR staff
## 2870              HR staff
## 2871              HR staff
## 2872              HR staff
## 2885              HR staff
## 2886        Cleaning staff
## 2887              HR staff
## 2888              HR staff
## 2889              HR staff
## 2890              HR staff
## 2891        Cleaning staff
## 2916              Laborers
## 2917  High skill tech staff
## 2918              Managers
## 2919  High skill tech staff
## 2920              Managers
## 2921               Drivers
## 2922               Drivers
## 2923  High skill tech staff
## 2924               Drivers
## 2925            Core staff
## 2926        Security staff
## 2927           Sales staff
## 2928           Sales staff
## 2929            Core staff
## 2930  High skill tech staff
## 2931              HR staff
## 2932           Sales staff
## 2933           Sales staff
## 2934         Cooking staff
## 2935           Secretaries
## 2936               Drivers
## 2937            Core staff
## 2938          Realty agents
## 2939              Laborers
## 2940         Cooking staff
## 2953              HR staff
## 2954              HR staff
```

```
## 2955                HR staff
## 2956                HR staff
## 2957                HR staff
## 2958                HR staff
## 2961                HR staff
## 2962                HR staff
## 2963                HR staff
## 2964                HR staff
## 2965                HR staff
## 2966                HR staff
## 2967                HR staff
## 2968                HR staff
## 2969                HR staff
## 2970          Cleaning staff
## 3006                HR staff
## 3007                HR staff
## 3008                HR staff
## 3055                Laborers
## 3056          Cleaning staff
## 3057             Sales staff
## 3058          Security staff
## 3059                Laborers
## 3060             Sales staff
## 3073                HR staff
## 3074                HR staff
## 3075                HR staff
## 3093                HR staff
## 3094                HR staff
## 3095                HR staff
## 3096                HR staff
## 3106          Cleaning staff
## 3107                HR staff
## 3129          Cleaning staff
## 3130                HR staff
## 3131                HR staff
## 3132                HR staff
## 3133                HR staff
## 3134                HR staff
## 3135                HR staff
## 3165                HR staff
## 3166                HR staff
## 3167                HR staff
## 3168                HR staff
## 3265              Core staff
## 3266             Sales staff
## 3267              Core staff
## 3268             Sales staff
## 3269             Sales staff
## 3270                Laborers
## 3271             Sales staff
## 3272 Private service staff
## 3273 Private service staff
## 3291          Cleaning staff
## 3292                HR staff
```

```
## 3293                    HR staff
## 3294                    HR staff
## 3295                    HR staff
## 3316                    Laborers
## 3317                 Sales staff
## 3318                      Drivers
## 3319                   Core staff
## 3320                 Sales staff
## 3321                 Secretaries
## 3322                    Laborers
## 3327                    HR staff
## 3328                    HR staff
## 3329                    HR staff
## 3330                    HR staff
## 3331                    HR staff
## 3332                    HR staff
## 3333                    HR staff
## 3343                    HR staff
## 3344                    HR staff
## 3345              Cleaning staff
## 3346                    HR staff
## 3347                    HR staff
## 3348                    HR staff
## 3349                    HR staff
## 3350                    HR staff
## 3351                    HR staff
## 3361                    HR staff
## 3362                    HR staff
## 3364     High skill tech staff
## 3365             Security staff
## 3366             Security staff
## 3367             Cleaning staff
## 3368                    HR staff
## 3369                    HR staff
## 3370                    HR staff
## 3371                    HR staff
## 3380        Waiters/barmen staff
## 3381                    HR staff
## 3382                    HR staff
## 3383                    HR staff
## 3384                    HR staff
## 3385                    HR staff
## 3386                    HR staff
## 3387                    HR staff
## 3388                    HR staff
## 3389                    HR staff
## 3390                    HR staff
## 3396                    HR staff
## 3397                    HR staff
## 3398                    HR staff
## 3399                    HR staff
## 3405                 Sales staff
## 3406                    Laborers
## 3407                    HR staff
```

```
## 3408               HR staff
## 3409               HR staff
## 3410               HR staff
## 3411               HR staff
## 3412               HR staff
## 3413               HR staff
## 3421         Cleaning staff
## 3422               HR staff
## 3436         Cleaning staff
## 3437               HR staff
## 3438               HR staff
## 3439               HR staff
## 3440               HR staff
## 3451               HR staff
## 3452               Laborers
## 3453          Cooking staff
## 3454               Laborers
## 3467               HR staff
## 3468         Cleaning staff
## 3469               HR staff
## 3470  Waiters/barmen staff
## 3471               HR staff
## 3472               HR staff
## 3473               HR staff
## 3474  Waiters/barmen staff
## 3475               HR staff
## 3476               HR staff
## 3477               HR staff
## 3478               HR staff
## 3486         Security staff
## 3487               HR staff
## 3488         Cleaning staff
## 3489               HR staff
## 3496         Cleaning staff
## 3497               HR staff
## 3498               HR staff
## 3506               HR staff
## 3507         Cleaning staff
## 3508         Cleaning staff
## 3509               HR staff
## 3510               HR staff
## 3511               HR staff
## 3512         Security staff
## 3513               HR staff
## 3532               HR staff
## 3533         Cleaning staff
## 3534               HR staff
## 3543                Drivers
## 3544               Laborers
## 3545                Drivers
## 3546            Accountants
## 3547                Drivers
## 3548               Laborers
## 3549               Managers
```

```
## 3550                Laborers
## 3551                Laborers
## 3552                Laborers
## 3553          Cleaning staff
## 3554                HR staff
## 3555                HR staff
## 3572                HR staff
## 3573                HR staff
## 3574                HR staff
## 3575                HR staff
## 3576          Cleaning staff
## 3577                HR staff
## 3581           Cooking staff
## 3582              Core staff
## 3591              Core staff
## 3592                Managers
## 3593          Medicine staff
## 3594   High skill tech staff
## 3595          Medicine staff
## 3610             Sales staff
## 3613              Core staff
## 3614                Managers
## 3615                Laborers
## 3616              Core staff
## 3617    Waiters/barmen staff
## 3618    Waiters/barmen staff
## 3619          Security staff
## 3620          Security staff
## 3621    Waiters/barmen staff
## 3622          Cleaning staff
## 3623          Cleaning staff
## 3624                HR staff
## 3633                Laborers
## 3634                 Drivers
## 3635          Cleaning staff
## 3636          Security staff
## 3637                Laborers
## 3638                 Drivers
## 3639                Laborers
## 3640                Laborers
## 3641                Laborers
## 3642          Security staff
## 3643                Laborers
## 3644                Laborers
## 3645                Laborers
## 3646              Core staff
## 3647                Laborers
## 3649                HR staff
## 3654          Cleaning staff
## 3655                HR staff
## 3656                HR staff
## 3657                HR staff
## 3658    Waiters/barmen staff
## 3659                HR staff
```

```
## 3660              HR staff
## 3673              HR staff
## 3674              HR staff
## 3675              HR staff
## 3676              HR staff
## 3677              HR staff
## 3691        Security staff
## 3692        Cleaning staff
## 3693              HR staff
## 3694              HR staff
## 3714   Waiters/barmen staff
## 3715              HR staff
## 3716              HR staff
## 3717   Waiters/barmen staff
## 3718              HR staff
## 3719              HR staff
## 3720              HR staff
## 3721              HR staff
## 3722              HR staff
## 3723              HR staff
## 3724              HR staff
## 3725              HR staff
## 3726   Waiters/barmen staff
## 3735              Laborers
## 3736               Drivers
## 3737            Core staff
## 3738        Security staff
## 3739              Laborers
## 3776              HR staff
## 3802              HR staff
## 3803              HR staff
## 3804        Security staff
## 3805              HR staff
## 3806              HR staff
## 3807              HR staff
## 3808              HR staff
## 3809              HR staff
## 3810              HR staff
## 3820              HR staff
## 3821              HR staff
## 3822              HR staff
## 3830        Cleaning staff
## 3831            Core staff
## 3832           Sales staff
## 3890              Laborers
## 3891            Core staff
## 3892           Sales staff
## 3893         Cooking staff
## 3894           Sales staff
## 3895           Sales staff
## 3909              HR staff
## 3910              HR staff
## 3911              HR staff
## 3912              HR staff
```

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## 3913                  HR staff
## 3914                  HR staff
## 3915                  HR staff
## 3923                  HR staff
## 3938                  HR staff
## 3939                  HR staff
## 3940                  HR staff
## 3941                  HR staff
## 3942                  HR staff
## 3943                  HR staff
## 3944                  HR staff
## 3945                  HR staff
## 3946                  HR staff
## 3947                  HR staff
## 3948                  HR staff
## 3949                  HR staff
## 3950                  HR staff
## 3951                  HR staff
## 3952                  HR staff
## 3953                  HR staff
## 3954            Cleaning staff
## 3955            Security staff
## 3964                   Drivers
## 3968     Private service staff
## 3972            Medicine staff
## 3977                  Laborers
## 3989                Core staff
## 3990                  Managers
## 3991                  Managers
## 3992     High skill tech staff
## 4004                  HR staff
## 4005                  HR staff
## 4006                  HR staff
## 4007                  HR staff
## 4008                  HR staff
## 4009                  HR staff
## 4010                  HR staff
## 4011            Cleaning staff
## 4012            Cleaning staff
## 4013     Private service staff
## 4014     Private service staff
## 4015               Secretaries
## 4016                  HR staff
## 4017                  HR staff
## 4018                  HR staff
## 4019                  HR staff
## 4020                  HR staff
## 4021                  Managers
## 4022                  Laborers
## 4023                  Managers
## 4024                  HR staff
## 4025            Cleaning staff
## 4026            Security staff
## 4027            Cleaning staff
```

```
## 4028                HR staff
## 4029          Security staff
## 4030                HR staff
## 4031                HR staff
## 4077                HR staff
## 4078                HR staff
## 4079                HR staff
## 4080                HR staff
## 4081                HR staff
## 4082                HR staff
## 4083                HR staff
## 4084                HR staff
## 4085                HR staff
## 4086                HR staff
## 4087                HR staff
## 4088                HR staff
## 4105                Laborers
## 4117                HR staff
## 4118                HR staff
## 4119                HR staff
## 4121              Core staff
## 4122  High skill tech staff
## 4123                HR staff
## 4124                HR staff
## 4125                HR staff
## 4126          Cleaning staff
## 4127     Waiters/barmen staff
## 4156              Core staff
## 4162          Cleaning staff
## 4163                HR staff
## 4164                HR staff
## 4165                HR staff
## 4169                HR staff
## 4170                HR staff
## 4171                HR staff
## 4172                HR staff
## 4173                HR staff
## 4174          Cleaning staff
## 4221                Managers
## 4234          Cleaning staff
## 4235              Core staff
## 4236                Laborers
## 4237                HR staff
## 4238     Waiters/barmen staff
## 4239                HR staff
## 4240                HR staff
## 4241                HR staff
## 4242          Security staff
## 4243     Waiters/barmen staff
## 4244          Cleaning staff
## 4245                HR staff
## 4246                HR staff
## 4259             Sales staff
## 4260             Sales staff
```

```
## 4261              Laborers
## 4262            Core staff
## 4263  Private service staff
## 4264  High skill tech staff
## 4265             Managers
## 4266        Medicine staff
## 4267            Core staff
## 4268              Laborers
## 4269           Sales staff
## 4270           Sales staff
## 4271  Private service staff
## 4272             Managers
## 4273             Managers
## 4274             Managers
## 4275           Accountants
## 4276           Accountants
## 4277            Core staff
## 4278           Sales staff
## 4279            Core staff
## 4280             Managers
## 4281              HR staff
## 4282        Cleaning staff
## 4283        Security staff
## 4284        Cleaning staff
## 4285              HR staff
## 4286              HR staff
## 4287              HR staff
## 4288              HR staff
## 4289        Cleaning staff
## 4293              HR staff
## 4294  Waiters/barmen staff
## 4306           Sales staff
## 4309        Cleaning staff
## 4325              HR staff
## 4341              HR staff
## 4342              HR staff
## 4343              HR staff
## 4344              HR staff
## 4345              HR staff
## 4346  Waiters/barmen staff
## 4347              HR staff
## 4348  Waiters/barmen staff
## 4349              HR staff
## 4350              HR staff
## 4377               Drivers
## 4378              Laborers
## 4379              Laborers
## 4384        Cleaning staff
## 4386        Cleaning staff
## 4387              HR staff
## 4406            Core staff
## 4407  Private service staff
## 4419           Sales staff
## 4420               Drivers
```

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## 4421              Managers
## 4430              HR staff
## 4431              HR staff
## 4432  Waiters/barmen staff
## 4433              HR staff
## 4434              HR staff
## 4435              HR staff
## 4436              HR staff
## 4437              HR staff
## 4449              HR staff
## 4450        Security staff
## 4451              HR staff
## 4452              HR staff
## 4453              HR staff
## 4454        Cleaning staff
## 4484              HR staff
## 4485              HR staff
## 4492              HR staff
## 4493              HR staff
## 4494              HR staff
## 4495        Security staff
## 4496        Cleaning staff
## 4497              HR staff
## 4498              HR staff
## 4499              HR staff
## 4500  Waiters/barmen staff
## 4501        Cleaning staff
## 4502              HR staff
## 4508              HR staff
## 4509              HR staff
## 4510              HR staff
## 4511              HR staff
## 4512        Security staff
## 4513              HR staff
## 4514              HR staff
## 4515              HR staff
## 4516              HR staff
## 4517        Security staff
## 4518              HR staff
## 4519              HR staff
## 4520              HR staff
## 4536              HR staff
## 4537  Waiters/barmen staff
## 4538              HR staff
## 4579              HR staff
## 4580              HR staff
## 4581  Waiters/barmen staff
## 4582              HR staff
## 4583              HR staff
## 4584              HR staff
## 4589              HR staff
## 4590  Waiters/barmen staff
## 4591        Security staff
## 4592              HR staff
```

```
## 4593          Security staff
## 4594               HR staff
## 4595               HR staff
## 4596               HR staff
## 4597               HR staff
## 4598               HR staff
## 4599          Cleaning staff
## 4600   Waiters/barmen staff
## 4609               Drivers
## 4610          Cleaning staff
## 4611             Core staff
## 4612             Core staff
## 4613               Drivers
## 4614          Cleaning staff
## 4615            Sales staff
## 4627               Drivers
## 4628               Managers
## 4629               Drivers
## 4630               Laborers
## 4631             Core staff
## 4632             Secretaries
## 4633            Sales staff
## 4686               HR staff
## 4687               HR staff
## 4689          Cleaning staff
## 4690               HR staff
## 4695               HR staff
## 4700               Managers
## 4701          Security staff
## 4702               Managers
## 4703               Drivers
## 4704     Low-skill Laborers
## 4705          Cleaning staff
## 4706          Cleaning staff
## 4707               Drivers
## 4740               HR staff
## 4741               HR staff
## 4742               HR staff
## 4743               HR staff
## 4744   Waiters/barmen staff
## 4745               HR staff
## 4746               HR staff
## 4747               HR staff
## 4748               HR staff
## 4749               HR staff
## 4750               HR staff
## 4751               HR staff
## 4752               HR staff
## 4753               HR staff
## 4754               HR staff
## 4755               HR staff
## 4769               HR staff
## 4770               HR staff
## 4771               HR staff
```

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## 4772                 HR staff
## 4773                 HR staff
## 4774                 HR staff
## 4775                 HR staff
## 4793                 Laborers
## 4794              Accountants
## 4795              Accountants
## 4796   High skill tech staff
## 4797               Core staff
## 4798              Sales staff
## 4799              Sales staff
## 4800               Core staff
## 4814            Cleaning staff
## 4815            Cleaning staff
## 4817                   Drivers
## 4821                 HR staff
## 4822                 HR staff
## 4824   Private service staff
## 4825                 HR staff
## 4827                 HR staff
## 4835                 HR staff
## 4842                 HR staff
## 4854              Accountants
## 4856                 HR staff
## 4857                 HR staff
## 4859                 Laborers
## 4861                 Managers
## 4862                 HR staff
## 4869                 HR staff
## 4882                 HR staff
## 4884                 HR staff
## 4889                 Laborers
## 4892                 HR staff
## 4908               Core staff
## 4914                 Laborers
## 4915       Low-skill Laborers
## 4916           Security staff
## 4918                 HR staff
## 4926     Waiters/barmen staff
## 4927                 HR staff
## 4928                 HR staff
## 4929                 HR staff
## 4930            Cooking staff
## 4931               Core staff
## 4932                 HR staff
## 4933                 HR staff
## 4934                 HR staff
## 4941                 Laborers
## 4942              Sales staff
## 4946                 HR staff
## 4947            Cleaning staff
## 4948               Core staff
## 4951            Cleaning staff
## 4952                 HR staff
```

```
## 4953                   Core staff
## 4959                    Managers
## 4964             Cleaning staff
## 4966                    HR staff
## 4967                    Laborers
## 4970                   Core staff
## 4971                 Sales staff
## 4972             Cleaning staff
## 4973                   Core staff
## 4975                   Core staff
## 4976                    HR staff
## 4977                    HR staff
## 4979             Cleaning staff
## 4980             Security staff
## 4987                    HR staff
## 4993                    HR staff
## 5001                    HR staff
## 5003                    HR staff
## 5004             Cleaning staff
## 5005                 Sales staff
## 5006                     Drivers
## 5007       Waiters/barmen staff
## 5008       Private service staff
## 5017                    Laborers
## 5018                    HR staff
## 5019                    HR staff
## 5024                    HR staff
## 5031              Medicine staff
## 5032                    HR staff
## 5033                    HR staff
## 5037                    HR staff
## 5045                   Core staff
## 5055                    HR staff
## 5057             Cleaning staff
## 5060             Security staff
## 5065                 Sales staff
## 5068                    Laborers
## 5069                    HR staff
## 5070                    HR staff
## 5071       Waiters/barmen staff
## 5101                    HR staff
## 5102                    HR staff
## 5103                    HR staff
## 5104                    HR staff
## 5105             Cleaning staff
## 5106                    HR staff
## 5121                    HR staff
## 5122                    HR staff
## 5123             Cleaning staff
## 5124             Cleaning staff
## 5125             Cleaning staff
## 5126                    HR staff
## 5127                    HR staff
## 5128             Cleaning staff
```

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## 5129            HR staff
## 5130            HR staff
## 5131      Cleaning staff
## 5132            HR staff
## 5135      Cleaning staff
## 5136   Waiters/barmen staff
## 5137            HR staff
## 5138      Security staff
## 5139            HR staff
## 5140            HR staff
## 5141            HR staff
## 5142            HR staff
## 5143            HR staff
## 5144            HR staff
## 5149            HR staff
## 5150            HR staff
## 5151            HR staff
## 5152   Waiters/barmen staff
## 5153            HR staff
## 5154            HR staff
## 5155            HR staff
## 5156      Cleaning staff
## 5159            HR staff
## 5187      Security staff
## 5188      Security staff
## 5189            HR staff
## 5190            HR staff
## 5191            HR staff
## 5192            HR staff
## 5200            Laborers
## 5201            Laborers
## 5202            Laborers
## 5203      Cleaning staff
## 5204            Laborers
## 5205            Laborers
## 5206            Laborers
## 5207            Laborers
## 5219           Core staff
## 5220           Core staff
## 5221          Secretaries
## 5222            Laborers
## 5223            Laborers
## 5224           Core staff
## 5225           Core staff
## 5226            Laborers
## 5227        Cooking staff
## 5228      Security staff
## 5229      Cleaning staff
## 5230            HR staff
## 5240            Laborers
## 5241             Drivers
## 5242             Drivers
## 5243             Drivers
## 5267            HR staff
```

```
## 5268               HR staff
## 5269          Cleaning staff
## 5270               HR staff
## 5271               HR staff
## 5272               HR staff
## 5273               HR staff
## 5274               HR staff
## 5275               HR staff
## 5276               HR staff
## 5277               HR staff
## 5289               HR staff
## 5290               HR staff
## 5291               HR staff
## 5292               HR staff
## 5298               HR staff
## 5299               HR staff
## 5300               HR staff
## 5301               HR staff
## 5302               HR staff
## 5303               HR staff
## 5304               HR staff
## 5319               HR staff
## 5320               HR staff
## 5321               HR staff
## 5322               HR staff
## 5323               HR staff
## 5324               HR staff
## 5325               HR staff
## 5333               HR staff
## 5334                Drivers
## 5335                Drivers
## 5336                Drivers
## 5337            Sales staff
## 5338     Low-skill Laborers
## 5339         Cleaning staff
## 5340               Managers
## 5341                Drivers
## 5342                Drivers
## 5343               Laborers
## 5344               Managers
## 5345         Security staff
## 5346                Drivers
## 5347          Realty agents
## 5348             Core staff
## 5349 High skill tech staff
## 5350             Core staff
## 5355               HR staff
## 5414               HR staff
## 5415               HR staff
## 5416               HR staff
## 5425               Laborers
## 5426         Cleaning staff
## 5427 High skill tech staff
## 5428               HR staff
```

```
## 5429                HR staff
## 5430                HR staff
## 5431                HR staff
## 5432          Medicine staff
## 5433              Core staff
## 5434             Sales staff
## 5435           Cooking staff
## 5436             Sales staff
## 5437          Security staff
## 5438   Waiters/barmen staff
## 5439                HR staff
## 5442                HR staff
## 5443                HR staff
## 5444                HR staff
## 5445                HR staff
## 5446   Waiters/barmen staff
## 5447          Cleaning staff
## 5448                HR staff
## 5452                HR staff
## 5453                HR staff
## 5454                HR staff
## 5455                HR staff
## 5458                HR staff
## 5459   Waiters/barmen staff
## 5460                HR staff
## 5461                HR staff
## 5466             Sales staff
## 5467               Laborers
## 5468           Cooking staff
## 5490                HR staff
## 5491                HR staff
## 5492          Cleaning staff
## 5493          Cleaning staff
## 5494                HR staff
## 5503          Medicine staff
## 5504             Sales staff
## 5505               Managers
## 5515          Medicine staff
## 5516               Managers
## 5549               Laborers
## 5550              Core staff
## 5551             Sales staff
## 5552              Core staff
## 5553          Medicine staff
## 5554              Core staff
## 5555             Sales staff
## 5556            Accountants
## 5557              Core staff
## 5558              Core staff
## 5559            Secretaries
## 5581                HR staff
## 5582                HR staff
## 5583                HR staff
## 5584                HR staff
```

```
## 5585                HR staff
## 5591  High skill tech staff
## 5592             Core staff
## 5593             Core staff
## 5634            Accountants
## 5635            Accountants
## 5636               Laborers
## 5637            Sales staff
## 5638  Private service staff
## 5664                HR staff
## 5665            Accountants
## 5684                HR staff
## 5685   Waiters/barmen staff
## 5686                HR staff
## 5687                HR staff
## 5688                HR staff
## 5696               Laborers
## 5697            Sales staff
## 5698  High skill tech staff
## 5699            Sales staff
## 5700               Laborers
## 5701               Laborers
## 5705         Cleaning staff
## 5706                HR staff
## 5707         Cleaning staff
## 5708         Cleaning staff
## 5751                HR staff
## 5752                HR staff
## 5753                HR staff
## 5754                HR staff
## 5755                HR staff
## 5781         Cleaning staff
## 5782                HR staff
## 5783                HR staff
## 5784                HR staff
## 5785                HR staff
## 5786                HR staff
## 5787                HR staff
## 5819                HR staff
## 5820                HR staff
## 5837            Sales staff
## 5838               Laborers
## 5839                Drivers
## 5840  Private service staff
## 5841  High skill tech staff
## 5842               Laborers
## 5843  High skill tech staff
## 5844             Core staff
## 5845            Sales staff
## 5846                HR staff
## 5847                HR staff
## 5848  Private service staff
## 5849               Laborers
## 5850  High skill tech staff
```

```
## 5851                HR staff
## 5870             Secretaries
## 5871              Core staff
## 5872          Medicine staff
## 5873          Medicine staff
## 5874              Core staff
## 5875                Managers
## 5876              Core staff
## 5877             Accountants
## 5878  High skill tech staff
## 5879             Sales staff
## 5880             Sales staff
## 5881              Core staff
## 5882              Core staff
## 5883             Accountants
## 5902                Laborers
## 5903              Core staff
## 5907  High skill tech staff
## 5908             Accountants
## 5909             Accountants
## 5910                Managers
## 5911              Core staff
## 5912             Accountants
## 5913             Secretaries
## 5914                Managers
## 5915                Managers
## 5916          Medicine staff
## 5920  High skill tech staff
## 5921             Sales staff
## 5922                 Drivers
## 5923                HR staff
## 5930                Laborers
## 5931                Managers
## 5932                Laborers
## 5933                Managers
## 5934                Laborers
## 5935                Managers
## 5936           Cooking staff
## 5937             Accountants
## 5938                Managers
## 5939              Core staff
## 5940                 Drivers
## 5941                Managers
## 5955                HR staff
## 5956                HR staff
## 5957             Accountants
## 5958             Accountants
## 5959             Sales staff
## 5960          Medicine staff
## 5961              Core staff
## 5962             Accountants
## 5963  Private service staff
## 5964  High skill tech staff
## 5965                 Drivers
```

```
## 5966          Sales staff
## 5967       Medicine staff
## 5989          Accountants
## 5990   Waiters/barmen staff
## 6002             Laborers
## 6003             Laborers
## 6004             Laborers
## 6011             Laborers
## 6012             Laborers
## 6013          Sales staff
## 6014        Cooking staff
## 6015             Laborers
## 6016             Laborers
## 6017           Core staff
## 6018          Secretaries
## 6019             Laborers
## 6020             HR staff
## 6021             HR staff
## 6023             HR staff
## 6024             HR staff
## 6025             HR staff
## 6070        Cooking staff
## 6071             Laborers
## 6072        Cooking staff
## 6073   Waiters/barmen staff
## 6074             HR staff
## 6075             HR staff
## 6076             HR staff
## 6079             HR staff
## 6080             HR staff
## 6081             HR staff
## 6082             HR staff
## 6083             HR staff
## 6084             HR staff
## 6085             HR staff
## 6086             HR staff
## 6087             HR staff
## 6088             HR staff
## 6089             HR staff
## 6090             HR staff
## 6091             HR staff
## 6092             HR staff
## 6093             HR staff
## 6107          Sales staff
## 6111             HR staff
## 6112             HR staff
## 6113          Sales staff
## 6114          Sales staff
## 6115              Drivers
## 6116           Core staff
## 6117           Core staff
## 6118           Core staff
## 6119   Waiters/barmen staff
## 6139        Cleaning staff
```

```
## 6140            Cooking staff
## 6141           Cleaning staff
## 6142                 HR staff
## 6143    Waiters/barmen staff
## 6144           Cleaning staff
## 6145           Cleaning staff
## 6146                 HR staff
## 6147                 HR staff
## 6148                 HR staff
## 6149                 HR staff
## 6150           Cleaning staff
## 6151                 HR staff
## 6152           Cleaning staff
## 6153                 HR staff
## 6165                 Laborers
## 6166                 Laborers
## 6167                 HR staff
## 6168                 HR staff
## 6169                 HR staff
## 6181                 HR staff
## 6183               Core staff
## 6184              Accountants
## 6185    Private service staff
## 6186    High skill tech staff
## 6187                 Laborers
## 6188                  Drivers
## 6189                 HR staff
## 6190                 HR staff
## 6204                 HR staff
## 6233                 HR staff
## 6236                 Laborers
## 6237                 HR staff
## 6244              Secretaries
## 6246           Cleaning staff
## 6249           Cleaning staff
## 6253                 Laborers
## 6254                 HR staff
## 6260                 HR staff
## 6261                 HR staff
## 6269                 HR staff
## 6273           Cleaning staff
## 6274                 HR staff
## 6275                 HR staff
## 6276                 HR staff
## 6277                 HR staff
## 6278    Waiters/barmen staff
## 6279                 IT staff
## 6280                 HR staff
## 6281                 HR staff
## 6282           Cleaning staff
## 6285                 HR staff
## 6286                 HR staff
## 6287                 HR staff
## 6288                 HR staff
```

```
## 6289          Cleaning staff
## 6297          Cleaning staff
## 6298                HR staff
## 6299                HR staff
## 6300          Cleaning staff
## 6301                HR staff
## 6302                HR staff
## 6303                HR staff
## 6306                HR staff
## 6334             Sales staff
## 6335  High skill tech staff
## 6336             Sales staff
## 6337            Realty agents
## 6338                HR staff
## 6339                HR staff
## 6340                HR staff
## 6341                HR staff
## 6342                HR staff
## 6343                HR staff
## 6344                HR staff
## 6345                HR staff
## 6346                HR staff
## 6347                HR staff
## 6348                HR staff
## 6349                HR staff
## 6350                HR staff
## 6351                HR staff
## 6352                HR staff
## 6367          Cleaning staff
## 6368                HR staff
## 6369                HR staff
## 6370          Cleaning staff
## 6371          Security staff
## 6372          Cleaning staff
## 6373                HR staff
## 6374                HR staff
## 6375                HR staff
## 6376          Medicine staff
## 6377             Sales staff
## 6383                HR staff
## 6384                HR staff
## 6385                HR staff
## 6411               Core staff
## 6412             Sales staff
## 6413                HR staff
## 6414                HR staff
## 6415                HR staff
## 6416                HR staff
## 6417                HR staff
## 6418          Cleaning staff
## 6419                HR staff
## 6420                HR staff
## 6421                HR staff
## 6422                HR staff
```

```
## 6423              HR staff
## 6424        Security staff
## 6425           Sales staff
## 6426           Accountants
## 6427               Drivers
## 6431              HR staff
## 6432              HR staff
## 6433              HR staff
## 6492              HR staff
## 6493              HR staff
## 6494              HR staff
## 6495   Waiters/barmen staff
## 6496              HR staff
## 6497              Laborers
## 6498            Core staff
## 6499               Drivers
## 6500  High skill tech staff
## 6501               Drivers
## 6509        Medicine staff
## 6510           Sales staff
## 6511           Sales staff
## 6512           Accountants
## 6513              Laborers
## 6514            Core staff
## 6515        Medicine staff
## 6516           Accountants
## 6517           Sales staff
## 6518            Core staff
## 6519              HR staff
## 6520              HR staff
## 6521           Sales staff
## 6522         Realty agents
## 6528            Core staff
## 6529           Sales staff
## 6530           Secretaries
## 6532              HR staff
## 6543        Medicine staff
## 6544               Drivers
## 6545              Laborers
## 6546           Accountants
## 6547            Core staff
## 6551              HR staff
## 6552              HR staff
## 6553              HR staff
## 6554              HR staff
## 6555        Cleaning staff
## 6556              HR staff
## 6557              HR staff
## 6558              HR staff
## 6579              HR staff
## 6580              HR staff
## 6581              HR staff
## 6582              HR staff
## 6583              HR staff
```

```
## 6584          Cleaning staff
## 6585          Cleaning staff
## 6586          Cleaning staff
## 6587               HR staff
## 6613               HR staff
## 6615             Core staff
## 6616         Medicine staff
## 6617         Medicine staff
## 6622  High skill tech staff
## 6623          Realty agents
## 6624            Accountants
## 6625            Sales staff
## 6626            Accountants
## 6627               HR staff
## 6631            Sales staff
## 6658               HR staff
## 6659  Waiters/barmen staff
## 6660         Security staff
## 6693               Laborers
## 6694               Laborers
## 6695  High skill tech staff
## 6696               HR staff
## 6697               HR staff
## 6698               HR staff
## 6699               HR staff
## 6700               HR staff
## 6701               HR staff
## 6702               HR staff
## 6749               Laborers
## 6750  High skill tech staff
## 6751                Drivers
## 6752             Core staff
## 6753                Drivers
## 6754                Drivers
## 6755         Medicine staff
## 6756  Private service staff
## 6757         Medicine staff
## 6758         Medicine staff
## 6759             Core staff
## 6760             Core staff
## 6761  High skill tech staff
## 6762             Core staff
## 6786               Managers
## 6798            Accountants
## 6801               Managers
## 6805               Managers
## 6806               Laborers
## 6820               Managers
## 6832               HR staff
## 6838               HR staff
## 6841             Core staff
## 6843               HR staff
## 6844               HR staff
## 6846               HR staff
```

```
## 6850                HR staff
## 6851  High skill tech staff
## 6852          Cleaning staff
## 6855          Cleaning staff
## 6856          Cleaning staff
## 6857                HR staff
## 6858                HR staff
## 6861                HR staff
## 6864                Laborers
## 6871                HR staff
## 6872                HR staff
## 6873                HR staff
## 6887             Accountants
## 6888              Core staff
## 6897          Medicine staff
## 6898          Cleaning staff
## 6899                Laborers
## 6903                HR staff
## 6915                HR staff
## 6918                 Drivers
## 6921                Laborers
## 6923          Medicine staff
## 6925                Managers
## 6926                HR staff
## 6927                HR staff
## 6928                 Drivers
## 6931             Sales staff
## 6932                 Drivers
## 6939                HR staff
## 6946          Cleaning staff
## 6947              Core staff
## 6948           Cooking staff
## 6951          Cleaning staff
## 6955     Waiters/barmen staff
## 6956                HR staff
## 6967     Waiters/barmen staff
## 6968                Managers
## 6969              Core staff
## 6970          Cleaning staff
## 6971                HR staff
## 6972             Accountants
## 6976                HR staff
## 6985                 Drivers
## 6986                HR staff
## 6987                HR staff
## 6988                HR staff
## 6991                HR staff
## 6994             Secretaries
## 6997  High skill tech staff
## 6999                HR staff
## 7000                Managers
## 7003          Cleaning staff
## 7008          Cleaning staff
## 7009                HR staff
```

```
## 7017              Laborers
## 7018       Cleaning staff
## 7021              Managers
## 7022             HR staff
## 7024       Cleaning staff
## 7026              Drivers
## 7027       Cleaning staff
## 7035          Sales staff
## 7036          Accountants
## 7044             HR staff
## 7045       Cleaning staff
## 7046             HR staff
## 7047             HR staff
## 7048             HR staff
## 7049             HR staff
## 7050       Cleaning staff
## 7051             HR staff
## 7055       Cleaning staff
## 7059             HR staff
## 7060  Waiters/barmen staff
## 7061             HR staff
## 7072          Sales staff
## 7073             Laborers
## 7074           Core staff
## 7075           Core staff
## 7076           Core staff
## 7077           Core staff
## 7085             HR staff
## 7086             HR staff
## 7087              Managers
## 7089             HR staff
## 7090             HR staff
## 7100  Waiters/barmen staff
## 7101             HR staff
## 7102       Security staff
## 7103  Waiters/barmen staff
## 7104             HR staff
## 7105       Cleaning staff
## 7114  Waiters/barmen staff
## 7115             HR staff
## 7116              Managers
## 7129             HR staff
## 7130             HR staff
## 7133             Laborers
## 7168          Sales staff
## 7169          Sales staff
## 7170          Accountants
## 7171             Laborers
## 7172          Sales staff
## 7173          Sales staff
## 7174           Core staff
## 7175        Realty agents
## 7176          Sales staff
## 7177          Accountants
```

```
## 7178              Managers
## 7179              Laborers
## 7180           Accountants
## 7181            Core staff
## 7182           Sales staff
## 7183           Sales staff
## 7195              HR staff
## 7196              HR staff
## 7198           Accountants
## 7199              Laborers
## 7200           Accountants
## 7201      Low-skill Laborers
## 7202           Accountants
## 7203            Core staff
## 7204        Cleaning staff
## 7232              HR staff
## 7233              HR staff
## 7234              HR staff
## 7235              HR staff
## 7236              HR staff
## 7237              HR staff
## 7238        Cleaning staff
## 7239              HR staff
## 7240        Security staff
## 7241   Waiters/barmen staff
## 7242              HR staff
## 7243              HR staff
## 7245              HR staff
## 7248              HR staff
## 7249              Managers
## 7251              Laborers
## 7260              Managers
## 7267        Cleaning staff
## 7268        Cleaning staff
## 7269        Cleaning staff
## 7270        Cleaning staff
## 7271        Cleaning staff
## 7272              HR staff
## 7273        Cleaning staff
## 7274        Cleaning staff
## 7275        Cleaning staff
## 7276        Cleaning staff
## 7277        Cleaning staff
## 7278              HR staff
## 7279              HR staff
## 7280        Cleaning staff
## 7281   Waiters/barmen staff
## 7290              HR staff
## 7291              Laborers
## 7295  High skill tech staff
## 7299        Security staff
## 7308        Security staff
## 7315              HR staff
## 7316              HR staff
```

```
## 7317           Cleaning staff
## 7318                HR staff
## 7323                Laborers
## 7348         Medicine staff
## 7349            Accountants
## 7350                Laborers
## 7351              Core staff
## 7352            Accountants
## 7353                Managers
## 7354                Laborers
## 7355           Cleaning staff
## 7356   Waiters/barmen staff
## 7357                HR staff
## 7358   Waiters/barmen staff
## 7386         Security staff
## 7387   Waiters/barmen staff
## 7388                HR staff
## 7389   Waiters/barmen staff
## 7390                HR staff
## 7391           Cleaning staff
## 7392                HR staff
## 7393                HR staff
## 7394                HR staff
## 7395         Security staff
## 7396                HR staff
## 7397                HR staff
## 7398                HR staff
## 7399                HR staff
## 7400                HR staff
## 7401                HR staff
## 7404                HR staff
## 7405                HR staff
## 7406                HR staff
## 7407   Waiters/barmen staff
## 7408           Cleaning staff
## 7409                HR staff
## 7410                HR staff
## 7411                HR staff
## 7412           Cleaning staff
## 7413         Medicine staff
## 7414           Cleaning staff
## 7415              Core staff
## 7416         Medicine staff
## 7420                HR staff
## 7421   Waiters/barmen staff
## 7428                HR staff
## 7429           Cleaning staff
## 7430                HR staff
## 7444                HR staff
## 7445                HR staff
## 7446                HR staff
## 7458              Sales staff
## 7459                Managers
## 7460              Core staff
```

```
## 7461           Medicine staff
## 7462                HR staff
## 7463                HR staff
## 7464                HR staff
## 7465                HR staff
## 7466                HR staff
## 7467                HR staff
## 7468                HR staff
## 7469                HR staff
## 7470                HR staff
## 7486                HR staff
## 7487                HR staff
## 7492           Cleaning staff
## 7493           Cleaning staff
## 7494                HR staff
## 7495                HR staff
## 7496                HR staff
## 7508             Sales staff
## 7509                Managers
## 7510                Managers
## 7511            Cooking staff
## 7512           Cleaning staff
## 7519             Sales staff
## 7520              Core staff
## 7521                Managers
## 7522              Core staff
## 7523                Managers
## 7524              Core staff
## 7525   High skill tech staff
## 7526             Accountants
## 7528   Private service staff
## 7529              Secretaries
## 7530   High skill tech staff
## 7531   High skill tech staff
## 7534                HR staff
## 7535                HR staff
## 7536                HR staff
## 7556              Core staff
## 7557           Medicine staff
## 7558                Laborers
## 7559                Laborers
## 7584             Sales staff
## 7585                 Drivers
## 7586             Sales staff
## 7587             Accountants
## 7588             Sales staff
## 7589           Medicine staff
## 7590              Core staff
## 7591                 Drivers
## 7592              Secretaries
## 7603                HR staff
## 7604    Waiters/barmen staff
## 7605                HR staff
## 7610             Sales staff
```

```
## 7611             Core staff
## 7612         Security staff
## 7613  High skill tech staff
## 7614           Sales staff
## 7615             Managers
## 7616  High skill tech staff
## 7617             HR staff
## 7618             HR staff
## 7619         Security staff
## 7620         Cleaning staff
## 7621             HR staff
## 7622             HR staff
## 7623   Waiters/barmen staff
## 7624             HR staff
## 7625             HR staff
## 7626             HR staff
## 7627             HR staff
## 7628             HR staff
## 7636         Security staff
## 7637   Waiters/barmen staff
## 7638             HR staff
## 7639             HR staff
## 7654             HR staff
## 7655         Cleaning staff
## 7656             HR staff
## 7657             HR staff
## 7658             HR staff
## 7659             HR staff
## 7660             HR staff
## 7661             HR staff
## 7662             HR staff
## 7676             Managers
## 7677         Security staff
## 7687             HR staff
## 7688             HR staff
## 7689             HR staff
## 7690             HR staff
## 7691             HR staff
## 7692             HR staff
## 7693              Drivers
## 7694           Sales staff
## 7695             HR staff
## 7700             HR staff
## 7701             HR staff
## 7702         Cleaning staff
## 7716         Cleaning staff
## 7717             HR staff
## 7718   Waiters/barmen staff
## 7723  Private service staff
## 7724             Core staff
## 7725           Secretaries
## 7726             HR staff
## 7727         Security staff
## 7730             HR staff
```

```
## 7731              Managers
## 7736              HR staff
## 7737              HR staff
## 7738              HR staff
## 7739              HR staff
## 7743            Accountants
## 7745              HR staff
## 7760           Sales staff
## 7764              HR staff
## 7769              Managers
## 7771              HR staff
## 7773            Core staff
## 7779              HR staff
## 7780              HR staff
## 7782              HR staff
## 7790              HR staff
## 7791              HR staff
## 7793              HR staff
## 7795            Core staff
## 7796              Laborers
## 7797              HR staff
## 7800              HR staff
## 7801           Sales staff
## 7802              HR staff
## 7803              HR staff
## 7810               Drivers
## 7815               IT staff
## 7816            Core staff
## 7817            Accountants
## 7818            Core staff
## 7819              Managers
## 7825               Drivers
## 7826   Waiters/barmen staff
## 7827        Security staff
## 7834              HR staff
## 7835           Sales staff
## 7836              HR staff
## 7837              HR staff
## 7847              Laborers
## 7848              Laborers
## 7860        Cleaning staff
## 7861               Drivers
## 7862              Laborers
## 7863               Drivers
## 7868              HR staff
## 7869           Sales staff
## 7870            Accountants
## 7871            Core staff
## 7872  Private service staff
## 7873            Core staff
## 7874  High skill tech staff
## 7880  Private service staff
## 7881              HR staff
## 7882  High skill tech staff
```

```
## 7885                HR staff
## 7886             Sales staff
## 7887                HR staff
## 7888  Private service staff
## 7889            Accountants
## 7890              Core staff
## 7891              Core staff
## 7896                HR staff
## 7898                HR staff
## 7906                HR staff
## 7920  High skill tech staff
## 7921               Managers
## 7922              Core staff
## 7923                IT staff
## 7924              Core staff
## 7925               Managers
## 7926              Core staff
## 7927              Core staff
## 7928                Drivers
## 7929              Core staff
## 7930               Laborers
## 7932                HR staff
## 7933                HR staff
## 7934                HR staff
## 7935                HR staff
## 7936                HR staff
## 7937                HR staff
## 7938                HR staff
## 7939          Cleaning staff
## 7940                HR staff
## 7941                HR staff
## 7942                HR staff
## 7943                HR staff
## 7944                HR staff
## 7945                HR staff
## 7946          Cleaning staff
## 7947                HR staff
## 7950                HR staff
## 7953                HR staff
## 7955                HR staff
## 7956                HR staff
## 7964               Managers
## 7965           Realty agents
## 7978                HR staff
## 7979          Cleaning staff
## 7995                HR staff
## 8001                HR staff
## 8002                HR staff
## 8014          Cleaning staff
## 8015                HR staff
## 8030               Laborers
## 8031               Laborers
## 8032                HR staff
## 8033            Accountants
```

```
## 8034            Laborers
## 8035           Core staff
## 8036          Sales staff
## 8037             HR staff
## 8041   Waiters/barmen staff
## 8080              Drivers
## 8081             HR staff
## 8085             HR staff
## 8086             HR staff
## 8087             HR staff
## 8126        Cleaning staff
## 8127            Laborers
## 8128             HR staff
## 8129             HR staff
## 8130             HR staff
## 8136   Waiters/barmen staff
## 8137             HR staff
## 8138             HR staff
## 8139             HR staff
## 8140         Cooking staff
## 8141            Laborers
## 8142            Laborers
## 8149           Core staff
## 8150           Core staff
## 8151             Managers
## 8152        Medicine staff
## 8153    Low-skill Laborers
## 8154           Core staff
## 8155             HR staff
## 8156   Waiters/barmen staff
## 8157             HR staff
## 8158        Cleaning staff
## 8159             HR staff
## 8160        Cleaning staff
## 8161             HR staff
## 8162             HR staff
## 8167             IT staff
## 8168           Core staff
## 8169        Medicine staff
## 8170            Laborers
## 8171           Core staff
## 8172           Core staff
## 8173           Core staff
## 8174  High skill tech staff
## 8175             Managers
## 8176   Waiters/barmen staff
## 8177          Sales staff
## 8178           Core staff
## 8185             HR staff
## 8196             HR staff
## 8197             HR staff
## 8198   Waiters/barmen staff
## 8199             HR staff
## 8200        Security staff
```

```
## 8201              HR staff
## 8202              HR staff
## 8203              HR staff
## 8204              HR staff
## 8205              HR staff
## 8206              HR staff
## 8207              HR staff
## 8208              HR staff
## 8209              HR staff
## 8210              HR staff
## 8211              HR staff
## 8217              HR staff
## 8218              HR staff
## 8219              HR staff
## 8220              HR staff
## 8221        Cleaning staff
## 8224            Core staff
## 8225           Accountants
## 8227              HR staff
## 8235              HR staff
## 8238        Cleaning staff
## 8258              HR staff
## 8259        Cleaning staff
## 8260              HR staff
## 8261        Cleaning staff
## 8262              HR staff
## 8263              HR staff
## 8264        Cleaning staff
## 8265              HR staff
## 8266        Cleaning staff
## 8267        Cleaning staff
## 8268              HR staff
## 8269              HR staff
## 8270              HR staff
## 8271              HR staff
## 8294              HR staff
## 8295              HR staff
## 8296        Security staff
## 8299              HR staff
## 8300              HR staff
## 8301           Sales staff
## 8303   Waiters/barmen staff
## 8304              HR staff
## 8311              HR staff
## 8312              HR staff
## 8313        Security staff
## 8326              Laborers
## 8327         Medicine staff
## 8328            Core staff
## 8329              Laborers
## 8333              HR staff
## 8334              HR staff
## 8335        Cleaning staff
## 8336              HR staff
```

```
## 8337               HR staff
## 8338               HR staff
## 8339   Waiters/barmen staff
## 8340         Cleaning staff
## 8376         Security staff
## 8377               HR staff
## 8378               HR staff
## 8379               HR staff
## 8380            Sales staff
## 8381            Accountants
## 8382         Medicine staff
## 8383            Sales staff
## 8384             Core staff
## 8385            Sales staff
## 8386          Cooking staff
## 8387               HR staff
## 8388               HR staff
## 8389               HR staff
## 8390               HR staff
## 8391               HR staff
## 8392               HR staff
## 8403               Laborers
## 8404               Laborers
## 8405               Laborers
## 8406               Laborers
## 8407               Managers
## 8408                Drivers
## 8409               Laborers
## 8410               Laborers
## 8411               Managers
## 8412               Managers
## 8413               Managers
## 8414               Managers
## 8415               Managers
## 8416               Laborers
## 8417               HR staff
## 8418               HR staff
## 8421         Cleaning staff
## 8424               HR staff
## 8425   Waiters/barmen staff
## 8426   Waiters/barmen staff
## 8470               HR staff
## 8471               HR staff
## 8472               HR staff
## 8473               HR staff
## 8474   Waiters/barmen staff
## 8475         Cleaning staff
## 8476               HR staff
## 8477   Waiters/barmen staff
## 8490               Managers
## 8491            Accountants
## 8492   High skill tech staff
## 8493             Core staff
## 8495               HR staff
```

```
## 8496  Waiters/barmen staff
## 8507            Core staff
## 8508        Medicine staff
## 8509            Core staff
## 8510  Waiters/barmen staff
## 8511            Core staff
## 8512            Core staff
## 8513        Medicine staff
## 8514           Accountants
## 8515            Core staff
## 8516  High skill tech staff
## 8517               Drivers
## 8518            Core staff
## 8519        Medicine staff
## 8520            Core staff
## 8521        Medicine staff
## 8522        Medicine staff
## 8523        Medicine staff
## 8524            Core staff
## 8525            Core staff
## 8526        Medicine staff
## 8528              HR staff
## 8529              HR staff
## 8530  Waiters/barmen staff
## 8531  Waiters/barmen staff
## 8532              HR staff
## 8533        Cleaning staff
## 8534              HR staff
## 8550              HR staff
## 8551        Security staff
## 8579              HR staff
## 8580        Cleaning staff
## 8581              HR staff
## 8589              HR staff
## 8590              HR staff
## 8591              HR staff
## 8592              HR staff
## 8594              HR staff
## 8595              HR staff
## 8598               Drivers
## 8599              HR staff
## 8608              HR staff
## 8609              HR staff
## 8611              Laborers
## 8614           Accountants
## 8615           Sales staff
## 8623            Core staff
## 8624              HR staff
## 8630              HR staff
## 8631              HR staff
## 8636              HR staff
## 8649              HR staff
## 8654              HR staff
## 8655        Security staff
```

```
## 8656           Security staff
## 8657                 Managers
## 8658              Sales staff
## 8659                 Laborers
## 8660              Sales staff
## 8661                 HR staff
## 8662               Core staff
## 8674                 HR staff
## 8675                 HR staff
## 8676               Core staff
## 8690                 HR staff
## 8695                 HR staff
## 8696                 HR staff
## 8697                 HR staff
## 8727                 HR staff
## 8728           Security staff
## 8729           Cleaning staff
## 8730                 HR staff
## 8731                 HR staff
## 8732                 HR staff
## 8733                 HR staff
## 8734                 HR staff
## 8735                 HR staff
## 8736                 HR staff
## 8740              Sales staff
## 8741              Sales staff
## 8742           Medicine staff
## 8743               Core staff
## 8765                 HR staff
## 8766                 HR staff
## 8767                 HR staff
## 8768                 HR staff
## 8769                 HR staff
## 8770                 HR staff
## 8776                 HR staff
## 8777                 HR staff
## 8778                 HR staff
## 8779     Waiters/barmen staff
## 8780     Waiters/barmen staff
## 8781                 HR staff
## 8782     Waiters/barmen staff
## 8783                 HR staff
## 8784           Cleaning staff
## 8785                 HR staff
## 8786               Core staff
## 8787                 Laborers
## 8788              Accountants
## 8789    Private service staff
## 8790              Sales staff
## 8791                 HR staff
## 8792           Medicine staff
## 8793                 Managers
## 8794               Core staff
## 8795                 HR staff
```

```
## 8812   High skill tech staff
## 8813             Laborers
## 8814    Low-skill Laborers
## 8815          Accountants
## 8816  Waiters/barmen staff
## 8817          Accountants
## 8818             HR staff
## 8819             HR staff
## 8820       Cleaning staff
## 8821             HR staff
## 8822       Cleaning staff
## 8823             HR staff
## 8824             HR staff
## 8829       Cleaning staff
## 8834             Laborers
## 8835 Private service staff
## 8840 High skill tech staff
## 8841              Drivers
## 8842 High skill tech staff
## 8843             HR staff
## 8844             HR staff
## 8845  Waiters/barmen staff
## 8846             HR staff
## 8847       Security staff
## 8848             HR staff
## 8857             HR staff
## 8858       Cleaning staff
## 8859             HR staff
## 8860             HR staff
## 8861             HR staff
## 8903             HR staff
## 8904             HR staff
## 8905       Cleaning staff
## 8906             HR staff
## 8907             HR staff
## 8908             HR staff
## 8909             HR staff
## 8910             HR staff
## 8920 Private service staff
## 8921 Private service staff
## 8922             Managers
## 8923       Medicine staff
## 8924 High skill tech staff
## 8925           Core staff
## 8926             HR staff
## 8927             HR staff
## 8928             HR staff
## 8929       Cleaning staff
## 8932  Waiters/barmen staff
## 8933             HR staff
## 8952       Security staff
## 8953             HR staff
## 8954             HR staff
## 8955             HR staff
```

```
## 8956               HR staff
## 8957         Cleaning staff
## 8958               HR staff
## 8959               HR staff
## 8960         Cleaning staff
## 8961               HR staff
## 8962         Cleaning staff
## 8963               HR staff
## 8982               HR staff
## 8983               HR staff
## 8984               HR staff
## 8985               HR staff
## 8986         Security staff
## 8987         Cleaning staff
## 8988               HR staff
## 8989               HR staff
## 8990   Waiters/barmen staff
## 8991               HR staff
## 8992         Cleaning staff
## 8993               HR staff
## 8994               HR staff
## 8995               HR staff
## 8996         Cleaning staff
## 8997               HR staff
## 9013  Private service staff
## 9014               HR staff
## 9015               HR staff
## 9016         Cleaning staff
## 9017         Cleaning staff
## 9018         Cleaning staff
## 9021               Laborers
## 9022         Medicine staff
## 9023         Security staff
## 9024               HR staff
## 9025               HR staff
## 9026         Cleaning staff
## 9027               HR staff
## 9028         Cleaning staff
## 9029   Waiters/barmen staff
## 9043               HR staff
## 9052               HR staff
## 9053               HR staff
## 9054               HR staff
## 9055               HR staff
## 9056         Cleaning staff
## 9057         Security staff
## 9058               HR staff
## 9059               HR staff
## 9060               HR staff
## 9061               HR staff
## 9062         Cleaning staff
## 9063               HR staff
## 9093               HR staff
## 9094         Cleaning staff
```

```
## 9095    Waiters/barmen staff
## 9096             HR staff
## 9097             HR staff
## 9098       Cleaning staff
## 9099       Cleaning staff
## 9112       Cleaning staff
## 9138             HR staff
## 9139       Cleaning staff
## 9140             HR staff
## 9141             HR staff
## 9142       Cleaning staff
## 9143             HR staff
## 9144             HR staff
## 9145       Cleaning staff
## 9146             HR staff
## 9147             HR staff
## 9148             HR staff
## 9157            Laborers
## 9158            Managers
## 9159            Managers
## 9160            Managers
## 9161             HR staff
## 9162       Security staff
## 9163       Security staff
## 9164             HR staff
## 9165             HR staff
## 9166    Waiters/barmen staff
## 9167       Cleaning staff
## 9168             HR staff
## 9169             HR staff
## 9170             HR staff
## 9171             HR staff
## 9174       Cleaning staff
## 9175             HR staff
## 9176             HR staff
## 9177             HR staff
## 9178             HR staff
## 9185             HR staff
## 9186             HR staff
## 9187             HR staff
## 9188             HR staff
## 9189             HR staff
## 9190             HR staff
## 9191             HR staff
## 9192    Waiters/barmen staff
## 9193             HR staff
## 9196            Laborers
## 9205             HR staff
## 9206             HR staff
## 9207             HR staff
## 9214          Accountants
## 9215            Managers
## 9216           Core staff
## 9217            Managers
```

```
## 9218               Managers
## 9219              Core staff
## 9220            Medicine staff
## 9221               Sales staff
## 9222  High skill tech staff
## 9223            Medicine staff
## 9224               Sales staff
## 9241  Private service staff
## 9242              Core staff
## 9243                 HR staff
## 9249              Accountants
## 9250              Accountants
## 9251              Core staff
## 9252            Medicine staff
## 9253  High skill tech staff
## 9254  Private service staff
## 9255              Core staff
## 9256                  Drivers
## 9257            Medicine staff
## 9258              Core staff
## 9259              Core staff
## 9260            Medicine staff
## 9261              Core staff
## 9262              Core staff
## 9263            Medicine staff
## 9264              Core staff
## 9287  Private service staff
## 9288               Managers
## 9289            Medicine staff
## 9290            Cooking staff
## 9291            Medicine staff
## 9292                 Laborers
## 9293                 Laborers
## 9294            Medicine staff
## 9295               Sales staff
## 9296               Sales staff
## 9308                 HR staff
## 9309                 HR staff
## 9310                  Drivers
## 9311                  Drivers
## 9312               Managers
## 9313               Managers
## 9314                 Laborers
## 9315               Managers
## 9326                 HR staff
## 9327                 HR staff
## 9328   Waiters/barmen staff
## 9329                 HR staff
## 9330                 HR staff
## 9344              Accountants
## 9345              Accountants
## 9346              Core staff
## 9347               Sales staff
## 9348              Accountants
```

```
## 9349   Private service staff
## 9350              Core staff
## 9351                Managers
## 9352             Sales staff
## 9353   High skill tech staff
## 9395   High skill tech staff
## 9396             Sales staff
## 9397              Core staff
## 9398             Sales staff
## 9399           Cooking staff
## 9400                Laborers
## 9429                HR staff
## 9430                HR staff
## 9431                HR staff
## 9432                HR staff
## 9492                HR staff
## 9493                HR staff
## 9494          Cleaning staff
## 9503   Private service staff
## 9504                 Drivers
## 9547                HR staff
## 9548                HR staff
## 9549                HR staff
## 9550                HR staff
## 9551              Core staff
## 9552                 Drivers
## 9553                Managers
## 9554              Core staff
## 9555             Accountants
## 9556             Sales staff
## 9557             Sales staff
## 9558             Sales staff
## 9559   Private service staff
## 9560              Core staff
## 9561              Core staff
## 9562             Accountants
## 9563                Managers
## 9564                HR staff
## 9565                HR staff
## 9566                HR staff
## 9567                HR staff
## 9568          Cleaning staff
## 9569                HR staff
## 9570          Security staff
## 9571                HR staff
## 9572             Sales staff
## 9573              Core staff
## 9574             Sales staff
## 9575          Security staff
## 9576                Laborers
## 9578                HR staff
## 9579          Cleaning staff
## 9580                HR staff
## 9581          Security staff
```

```
## 9582              Laborers
## 9583              Laborers
## 9584            Core staff
## 9612   Waiters/barmen staff
## 9613        Security staff
## 9614              HR staff
## 9615              HR staff
## 9616        Security staff
## 9632              Managers
## 9633              Managers
## 9634            Core staff
## 9635            Core staff
## 9636           Accountants
## 9639              HR staff
## 9640              HR staff
## 9641              HR staff
## 9642              HR staff
## 9643              HR staff
## 9644              HR staff
## 9645              HR staff
## 9646              HR staff
## 9675              HR staff
## 9676              HR staff
## 9677           Accountants
## 9699            Core staff
## 9708              HR staff
## 9709              HR staff
## 9710              HR staff
## 9711              HR staff
## 9712              HR staff
## 9713              HR staff
## 9720  High skill tech staff
## 9721  High skill tech staff
## 9722            Core staff
## 9723              Managers
## 9724              Managers
## 9725              Managers
## 9726            Core staff
## 9727            Core staff
## 9728              Managers
## 9729            Core staff
## 9730            Core staff
## 9731              Managers
## 9732           Accountants
## 9733              Managers
## 9734              Managers
## 9735              Managers
## 9754              Laborers
## 9755            Core staff
## 9756              Laborers
## 9757           Sales staff
## 9758              Laborers
## 9759        Medicine staff
## 9760              Laborers
```

```
## 9772                HR staff
## 9773                HR staff
## 9774                HR staff
## 9775                HR staff
## 9776                HR staff
## 9777                HR staff
## 9799                HR staff
## 9800                HR staff
## 9801                HR staff
## 9802                HR staff
## 9803                HR staff
## 9804                HR staff
## 9805                HR staff
## 9810                Laborers
## 9811          Cleaning staff
## 9812              Core staff
## 9813          Security staff
## 9814             Sales staff
## 9815                Laborers
## 9816             Sales staff
## 9817             Accountants
## 9818             Sales staff
## 9819             Sales staff
## 9868                HR staff
## 9869                HR staff
## 9875                HR staff
## 9876                HR staff
## 9877                HR staff
## 9878                HR staff
## 9879          Security staff
## 9880          Security staff
## 9884             Sales staff
## 9909                Managers
## 9910          Security staff
## 9911   Private service staff
## 9912                HR staff
## 9913          Cleaning staff
## 9917             Sales staff
## 9918      Low-skill Laborers
## 9919             Sales staff
## 9920                 Drivers
## 9938                Laborers
## 9939          Security staff
## 9940          Medicine staff
## 9941             Sales staff
## 9942             Sales staff
## 9943              Core staff
## 9944           Cooking staff
## 9945                Laborers
## 9946             Sales staff
## 9947           Cooking staff
## 9948             Sales staff
## 9954          Cleaning staff
## 9968          Cleaning staff
```

```
## 9969              HR staff
## 9970        Cleaning staff
## 9971        Security staff
## 9972              HR staff
## 9973        Cleaning staff
## 9974              HR staff
## 9975              HR staff
## 9976              HR staff
## 9977              Managers
## 9978              Managers
## 9979           Sales staff
## 9980            Core staff
## 9981            Core staff
## 9982           Sales staff
## 9983              Laborers
## 9984               Drivers
## 9985           Sales staff
## 9986              Laborers
## 9987               Drivers
## 9988           Accountants
## 9989           Sales staff
## 9990               Drivers
## 9991           Sales staff
## 9992              Managers
## 9998              HR staff
## 9999        Security staff
## 10020             HR staff
## 10021             HR staff
## 10022             HR staff
## 10023             HR staff
## 10024          Accountants
## 10025          Sales staff
## 10026        Realty agents
## 10027             HR staff
## 10028             HR staff
## 10029             HR staff
## 10030             HR staff
## 10031       Cleaning staff
## 10032             HR staff
## 10033             HR staff
## 10034             HR staff
## 10035       Security staff
## 10036             HR staff
## 10040             HR staff
## 10041             HR staff
## 10042             HR staff
## 10043           Core staff
## 10044           Core staff
## 10045          Accountants
## 10046             Managers
## 10047          Accountants
## 10048 Private service staff
## 10049 High skill tech staff
## 10050          Accountants
```

```
## 10051               Drivers
## 10052              Laborers
## 10053           Sales staff
## 10054           Sales staff
## 10055              Laborers
## 10056        Medicine staff
## 10057           Accountants
## 10058              Laborers
## 10059           Accountants
## 10060              Laborers
## 10061  Waiters/barmen staff
## 10069     Low-skill Laborers
## 10083              HR staff
## 10084  Waiters/barmen staff
## 10085              HR staff
## 10086              HR staff
## 10087              HR staff
## 10088              HR staff
## 10089              HR staff
## 10090              HR staff
## 10091              HR staff
## 10092              HR staff
## 10093              HR staff
## 10094  Waiters/barmen staff
## 10095              HR staff
## 10096              HR staff
## 10097              HR staff
## 10098              HR staff
## 10099        Security staff
## 10100              Managers
## 10101        Medicine staff
## 10102            Core staff
## 10103           Sales staff
## 10104           Accountants
## 10105        Security staff
## 10106              IT staff
## 10107           Accountants
## 10108        Cleaning staff
## 10109              HR staff
## 10110              HR staff
## 10111              HR staff
## 10124              HR staff
## 10125              HR staff
## 10126              HR staff
## 10127              HR staff
## 10128              HR staff
## 10129            Core staff
## 10130            Core staff
## 10131        Medicine staff
## 10132            Core staff
## 10133 High skill tech staff
## 10134           Secretaries
## 10135  Waiters/barmen staff
## 10136              HR staff
```

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## 10137              HR staff
## 10138              HR staff
## 10139              HR staff
## 10140              HR staff
## 10141              HR staff
## 10142              HR staff
## 10185              HR staff
## 10186              HR staff
## 10194              HR staff
## 10195              HR staff
## 10196              HR staff
## 10197         Cleaning staff
## 10198              HR staff
## 10199              HR staff
## 10200              HR staff
## 10201              HR staff
## 10202              HR staff
## 10203              HR staff
## 10204              HR staff
## 10205              HR staff
## 10206              HR staff
## 10207              HR staff
## 10208              HR staff
## 10209              HR staff
## 10210              HR staff
## 10211              HR staff
## 10212              HR staff
## 10213              HR staff
## 10214              HR staff
## 10215              HR staff
## 10216              HR staff
## 10217              HR staff
## 10218              HR staff
## 10219              HR staff
## 10220              HR staff
## 10221              HR staff
## 10222              HR staff
## 10223              HR staff
## 10224              HR staff
## 10225              HR staff
## 10256              HR staff
## 10257              HR staff
## 10258              HR staff
## 10271              Laborers
## 10272               Drivers
## 10273         Security staff
## 10274              Laborers
## 10275              Laborers
## 10276               Drivers
## 10277              Laborers
## 10278              Laborers
## 10289              HR staff
## 10290         Cleaning staff
## 10291              HR staff
```

```
## 10292              HR staff
## 10322              HR staff
## 10323              HR staff
## 10337         Cooking staff
## 10338            Core staff
## 10339               Drivers
## 10353        Security staff
## 10371        Security staff
## 10372        Cleaning staff
## 10373              HR staff
## 10374        Cleaning staff
## 10375              HR staff
## 10376        Cleaning staff
## 10377        Cleaning staff
## 10378              HR staff
## 10379        Security staff
## 10380  Waiters/barmen staff
## 10381        Security staff
## 10382              HR staff
## 10383  Waiters/barmen staff
## 10391              HR staff
## 10392              HR staff
## 10395        Security staff
## 10415              HR staff
## 10416        Security staff
## 10417              HR staff
## 10418              HR staff
## 10419              HR staff
## 10420              HR staff
## 10421              HR staff
## 10422              HR staff
## 10423              HR staff
## 10424              HR staff
## 10425        Security staff
## 10426              HR staff
## 10427              HR staff
## 10428              HR staff
## 10434              Managers
## 10435              Laborers
## 10436               Drivers
## 10437           Sales staff
## 10438            Core staff
## 10439            Core staff
## 10440 High skill tech staff
## 10441              Laborers
## 10442              Laborers
## 10444              HR staff
## 10445              HR staff
## 10446              HR staff
## 10447              HR staff
## 10448              HR staff
## 10449              HR staff
## 10450              HR staff
## 10451              HR staff
```

```
## 10452               HR staff
## 10453               HR staff
## 10454               HR staff
## 10476 High skill tech staff
## 10477              Laborers
## 10478        Security staff
## 10479              Laborers
## 10480              Laborers
## 10481              Laborers
## 10482 High skill tech staff
## 10483               Drivers
## 10484              Laborers
## 10489               HR staff
## 10490               HR staff
## 10491               HR staff
## 10492               HR staff
## 10493               HR staff
## 10494               HR staff
## 10497           Accountants
## 10498              Laborers
## 10499           Accountants
## 10500           Accountants
## 10501           Accountants
## 10502            Core staff
## 10503           Sales staff
## 10504        Cleaning staff
## 10505               Drivers
## 10506               Drivers
## 10507           Sales staff
## 10508 High skill tech staff
## 10509         Cooking staff
## 10510         Cooking staff
## 10511               Drivers
## 10512               HR staff
## 10513            Core staff
## 10514            Core staff
## 10515 High skill tech staff
## 10516         Cooking staff
## 10517              Laborers
## 10518        Medicine staff
## 10546               HR staff
## 10547               HR staff
## 10548              Laborers
## 10549            Core staff
## 10550           Sales staff
## 10551              Laborers
## 10552              Laborers
## 10553              Laborers
## 10554        Cleaning staff
## 10555               HR staff
## 10556        Cleaning staff
## 10605               HR staff
## 10606               HR staff
## 10607               HR staff
```

```
## 10608             HR staff
## 10609             HR staff
## 10610             HR staff
## 10611             HR staff
## 10614             Managers
## 10617             Laborers
## 10631             Laborers
## 10632             Laborers
## 10633           Sales staff
## 10634 High skill tech staff
## 10635 High skill tech staff
## 10643             HR staff
## 10644             HR staff
## 10645             HR staff
## 10650            Core staff
## 10651            Core staff
## 10652           Secretaries
## 10659             HR staff
## 10660            Core staff
## 10661        Medicine staff
## 10662             Laborers
## 10663              Drivers
## 10664        Security staff
## 10665             HR staff
## 10666             HR staff
## 10667             HR staff
## 10668             HR staff
## 10669             HR staff
## 10670             HR staff
## 10671             HR staff
## 10672             HR staff
## 10673             HR staff
## 10674             HR staff
## 10675             HR staff
## 10685    Low-skill Laborers
## 10686              Drivers
## 10701           Sales staff
## 10702             Managers
## 10703 High skill tech staff
## 10704             Laborers
## 10705        Security staff
## 10706             Laborers
## 10707             Laborers
## 10716  Waiters/barmen staff
## 10717             HR staff
## 10718             HR staff
## 10719             HR staff
## 10720             HR staff
## 10721             HR staff
## 10722        Cleaning staff
## 10723             HR staff
## 10724             HR staff
## 10725             HR staff
## 10726             HR staff
```

```
## 10740        Cleaning staff
## 10741        Cleaning staff
## 10742        Cleaning staff
## 10743        Cleaning staff
## 10744              HR staff
## 10745              HR staff
## 10746              HR staff
## 10747              HR staff
## 10748              HR staff
## 10749        Cleaning staff
## 10768        Medicine staff
## 10769        Cleaning staff
## 10826              HR staff
## 10827        Cleaning staff
## 10828              HR staff
## 10829              HR staff
## 10830        Cleaning staff
## 10844            Core staff
## 10845            Core staff
## 10846        Security staff
## 10847           Sales staff
## 10852              HR staff
## 10853              HR staff
## 10854        Security staff
## 10855        Cleaning staff
## 10856              HR staff
## 10857              HR staff
## 10858              HR staff
## 10859              HR staff
## 10868        Medicine staff
## 10869              Laborers
## 10870            Core staff
## 10871               Drivers
## 10872            Core staff
## 10873              HR staff
## 10874              HR staff
## 10875              HR staff
## 10876              HR staff
## 10877              HR staff
## 10878        Cleaning staff
## 10879              HR staff
## 10880              HR staff
## 10881        Cleaning staff
## 10882              HR staff
## 10883              HR staff
## 10886              HR staff
## 10887              HR staff
## 10888        Cleaning staff
## 10910              HR staff
## 10915              HR staff
## 10932              HR staff
## 10933              HR staff
## 10934              HR staff
## 10935              HR staff
```

```
## 10936               HR staff
## 10937               HR staff
## 10938               HR staff
## 10944               HR staff
## 10945         Security staff
## 10951                Drivers
## 10954               HR staff
## 10955               HR staff
## 10956               HR staff
## 10960         Cleaning staff
## 10961               HR staff
## 10963         Cleaning staff
## 10964               HR staff
## 10965               HR staff
## 10966         Cleaning staff
## 10967               HR staff
## 10968               HR staff
## 10969               HR staff
## 10970               HR staff
## 10971               HR staff
## 10972               HR staff
## 10973               HR staff
## 10974         Cleaning staff
## 10975         Cleaning staff
## 10976               HR staff
## 10977               HR staff
## 10984         Security staff
## 10985               HR staff
## 10990  Waiters/barmen staff
## 10991               HR staff
## 10992  Waiters/barmen staff
## 10993               HR staff
## 10994  Waiters/barmen staff
## 10995               HR staff
## 10996               HR staff
## 10997  Waiters/barmen staff
## 10998               HR staff
## 10999         Cleaning staff
## 11000         Cleaning staff
## 11001            Sales staff
## 11002         Cleaning staff
## 11003               HR staff
## 11004         Security staff
## 11005               HR staff
## 11006               HR staff
## 11007               HR staff
## 11008               HR staff
## 11018               HR staff
## 11019               HR staff
## 11020               HR staff
## 11021               HR staff
## 11022               HR staff
## 11023               HR staff
## 11028                Drivers
```

```
## 11029              Managers
## 11030              Managers
## 11031              Managers
## 11032               Drivers
## 11033              Managers
## 11034 High skill tech staff
## 11036              HR staff
## 11043 High skill tech staff
## 11044            Core staff
## 11045        Cleaning staff
## 11050              HR staff
## 11051              HR staff
## 11052              HR staff
## 11053              HR staff
## 11055        Cleaning staff
## 11056              Laborers
## 11059           Sales staff
## 11060              Laborers
## 11061              Laborers
## 11062 High skill tech staff
## 11063              Laborers
## 11064              Laborers
## 11077              HR staff
## 11078              HR staff
## 11079        Cleaning staff
## 11094              HR staff
## 11095              HR staff
## 11096              HR staff
## 11097              HR staff
## 11098              HR staff
## 11099              HR staff
## 11100              HR staff
## 11101  Waiters/barmen staff
## 11102              HR staff
## 11103              HR staff
## 11104              HR staff
## 11105         Security staff
## 11106              HR staff
## 11107        Cleaning staff
## 11108  Waiters/barmen staff
## 11109  Waiters/barmen staff
## 11110              HR staff
## 11111        Cleaning staff
## 11112              HR staff
## 11116               Drivers
## 11117               Drivers
## 11118               Drivers
## 11119           Sales staff
## 11120           Sales staff
## 11121               Drivers
## 11122              HR staff
## 11123        Cleaning staff
## 11124              HR staff
## 11125        Cleaning staff
```

```
## 11126             HR staff
## 11138       Cleaning staff
## 11139          Accountants
## 11140       Cleaning staff
## 11157             HR staff
## 11158             HR staff
## 11175             HR staff
## 11176             HR staff
## 11177       Security staff
## 11201             HR staff
## 11202             HR staff
## 11203             HR staff
## 11204             HR staff
## 11205             HR staff
## 11206             HR staff
## 11229  Waiters/barmen staff
## 11230             HR staff
## 11250             Laborers
## 11277          Accountants
## 11278          Secretaries
## 11280          Sales staff
## 11281          Sales staff
## 11282          Sales staff
## 11288          Sales staff
## 11289           Core staff
## 11290           Core staff
## 11293             HR staff
## 11294             HR staff
## 11295             HR staff
## 11296             HR staff
## 11297             HR staff
## 11298             HR staff
## 11310             HR staff
## 11311       Cleaning staff
## 11312       Security staff
## 11313             HR staff
## 11316  Waiters/barmen staff
## 11321 High skill tech staff
## 11322          Accountants
## 11323          Accountants
## 11324             Managers
## 11325          Accountants
## 11326             HR staff
## 11327              Drivers
## 11328           Core staff
## 11331        Cooking staff
## 11332          Sales staff
## 11369           Core staff
## 11370             Managers
## 11371              Drivers
## 11372             Laborers
## 11373              Drivers
## 11374             Managers
## 11375             Managers
```

```
## 11376                Drivers
## 11377 High skill tech staff
## 11378                Drivers
## 11379            Accountants
## 11380              Laborers
## 11381              Managers
## 11382              Managers
## 11383              Managers
## 11384              Managers
## 11385         Security staff
## 11386                Drivers
## 11387 High skill tech staff
## 11502               HR staff
## 11518               HR staff
## 11541            Accountants
## 11542              Laborers
## 11543                Drivers
## 11544               HR staff
## 11545               HR staff
## 11546         Cleaning staff
## 11547               HR staff
## 11548         Cleaning staff
## 11549         Cleaning staff
## 11562               HR staff
## 11563               HR staff
## 11564         Cleaning staff
## 11565               HR staff
## 11566         Cleaning staff
## 11585               HR staff
## 11586               HR staff
## 11587               HR staff
## 11588               HR staff
## 11589               HR staff
## 11590         Cleaning staff
## 11591               HR staff
## 11592               HR staff
## 11593         Cleaning staff
## 11594               HR staff
## 11595               HR staff
## 11596               HR staff
## 11597               HR staff
## 11598               HR staff
## 11632              Laborers
## 11633              Laborers
## 11634            Accountants
## 11635           Sales staff
## 11636         Medicine staff
## 11637             Core staff
## 11638              Managers
## 11639              Managers
## 11651                Drivers
## 11652              Laborers
## 11653                Drivers
## 11654                Drivers
```

```
## 11655             Laborers
## 11656             Laborers
## 11657             Managers
## 11658 Private service staff
## 11659             Laborers
## 11660             Laborers
## 11661              Drivers
## 11662              Drivers
## 11690          Sales staff
## 11691          Secretaries
## 11692       Medicine staff
## 11693             Laborers
## 11694             Laborers
## 11703             HR staff
## 11704             HR staff
## 11705             HR staff
## 11706       Cleaning staff
## 11707  Waiters/barmen staff
## 11708             HR staff
## 11709             HR staff
## 11710             HR staff
## 11722             Laborers
## 11723             Laborers
## 11738       Cleaning staff
## 11739             HR staff
## 11740  Waiters/barmen staff
## 11741             HR staff
## 11742       Cleaning staff
## 11743             HR staff
## 11744             HR staff
## 11745          Sales staff
## 11746          Sales staff
## 11747             HR staff
## 11748          Sales staff
## 11749          Sales staff
## 11750          Sales staff
## 11751             Laborers
## 11752             Laborers
## 11753             Laborers
## 11754          Sales staff
## 11755 High skill tech staff
## 11756             Managers
## 11757             Managers
## 11758 High skill tech staff
## 11810  Waiters/barmen staff
## 11811  Waiters/barmen staff
## 11812             HR staff
## 11813           Core staff
## 11814 High skill tech staff
## 11829             HR staff
## 11830             HR staff
## 11831       Cleaning staff
## 11832             HR staff
## 11833             HR staff
```

```
## 11834         Cleaning staff
## 11835               HR staff
## 11836               HR staff
## 11875               HR staff
## 11876               HR staff
## 11877               HR staff
## 11878               HR staff
## 11879               HR staff
## 11880            Sales staff
## 11881             Core staff
## 11882 Private service staff
## 11883             Core staff
## 11884             Core staff
## 11885            Sales staff
## 11886            Sales staff
## 11887             Core staff
## 11888             Core staff
## 11889 High skill tech staff
## 11890                Drivers
## 11891               Laborers
## 11892               Laborers
## 11893         Security staff
## 11930         Security staff
## 11931               HR staff
## 11970               HR staff
## 11971               HR staff
## 11972               HR staff
## 11973               HR staff
## 11974               HR staff
## 11975            Accountants
## 11999         Medicine staff
## 12000               Laborers
## 12004               Laborers
## 12005               Laborers
## 12006            Sales staff
## 12020         Security staff
## 12021               Managers
## 12022                Drivers
## 12023                Drivers
## 12024               HR staff
## 12025             Core staff
## 12030               Managers
## 12064               Managers
## 12065             Core staff
## 12066            Accountants
## 12067            Sales staff
## 12068             Core staff
## 12069               Laborers
## 12070            Sales staff
## 12082             Core staff
## 12083 Private service staff
## 12087               Managers
## 12088             Core staff
## 12089               Laborers
```

```
## 12090               Secretaries
## 12091              Sales staff
## 12092                 HR staff
## 12093                 HR staff
## 12094                 HR staff
## 12095                 HR staff
## 12096                 HR staff
## 12119               Core staff
## 12120              Accountants
## 12134              Accountants
## 12135                 Managers
## 12136   Waiters/barmen staff
## 12137              Accountants
## 12138              Accountants
## 12139                 Managers
## 12140              Accountants
## 12141 Private service staff
## 12142              Core staff
## 12143                 Managers
## 12144                 Managers
## 12145 High skill tech staff
## 12154              Accountants
## 12155              Core staff
## 12156          Medicine staff
## 12168              Accountants
## 12169             Sales staff
## 12170              Core staff
## 12180                 HR staff
## 12181                 HR staff
## 12182                 HR staff
## 12183                 HR staff
## 12184                 HR staff
## 12185                 HR staff
## 12186   Waiters/barmen staff
## 12187                 HR staff
## 12188                 HR staff
## 12189                 HR staff
## 12190                 HR staff
## 12197           Security staff
## 12198           Security staff
## 12199                 Laborers
## 12200 High skill tech staff
## 12201           Security staff
## 12226                 HR staff
## 12227                 HR staff
## 12228                 HR staff
## 12274                  Drivers
## 12275              Core staff
## 12276                 HR staff
## 12277              Accountants
## 12278              Core staff
## 12279                 HR staff
## 12291                 HR staff
## 12292                 HR staff
```

```
## 12293               HR staff
## 12294               HR staff
## 12295            Accountants
## 12296            Sales staff
## 12297 High skill tech staff
## 12298               HR staff
## 12317               HR staff
## 12320         Cleaning staff
## 12321               HR staff
## 12322               HR staff
## 12323               HR staff
## 12324               HR staff
## 12325               HR staff
## 12326               HR staff
## 12327               HR staff
## 12328               HR staff
## 12329               HR staff
## 12330               HR staff
## 12343               Managers
## 12360            Sales staff
## 12361            Sales staff
## 12379             Core staff
## 12380            Accountants
## 12381     Low-skill Laborers
## 12382                Drivers
## 12383             Core staff
## 12384            Sales staff
## 12385                Drivers
## 12386               Managers
## 12387                Drivers
## 12390               HR staff
## 12405               HR staff
## 12406               HR staff
## 12407               HR staff
## 12408               HR staff
## 12409               HR staff
## 12410               HR staff
## 12411         Cleaning staff
## 12412               HR staff
## 12413               HR staff
## 12414               HR staff
## 12415               HR staff
## 12416               HR staff
## 12425          Cooking staff
## 12426         Security staff
## 12427          Cooking staff
## 12428         Security staff
## 12429         Cleaning staff
## 12430             Core staff
## 12431         Medicine staff
## 12432     Low-skill Laborers
## 12433             Core staff
## 12434               HR staff
## 12435               HR staff
```

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## 12436               HR staff
## 12437               HR staff
## 12438               HR staff
## 12442               Laborers
## 12443               Laborers
## 12444               Laborers
## 12445               Laborers
## 12446               Laborers
## 12447 High skill tech staff
## 12448                Drivers
## 12449         Medicine staff
## 12461         Cleaning staff
## 12498               HR staff
## 12499   Waiters/barmen staff
## 12500               HR staff
## 12501               HR staff
## 12502         Cleaning staff
## 12510               HR staff
## 12511               HR staff
## 12512               HR staff
## 12513               Laborers
## 12514               Managers
## 12515            Sales staff
## 12516            Accountants
## 12517               Laborers
## 12518 High skill tech staff
## 12519             Core staff
## 12520            Sales staff
## 12521               Laborers
## 12522         Cleaning staff
## 12523            Accountants
## 12524               Laborers
## 12528               HR staff
## 12529               HR staff
## 12530               HR staff
## 12548               HR staff
## 12549         Cleaning staff
## 12550               HR staff
## 12551         Cleaning staff
## 12552               HR staff
## 12560               HR staff
## 12561               HR staff
## 12562                Drivers
## 12563               Laborers
## 12564 High skill tech staff
## 12565                Drivers
## 12566               Managers
## 12574 Private service staff
## 12575                IT staff
## 12576         Security staff
## 12577               Laborers
## 12578                Drivers
## 12579     Low-skill Laborers
## 12580          Realty agents
```

```
## 12581             Core staff
## 12582              Laborers
## 12583              Laborers
## 12594    Low-skill Laborers
## 12595              Laborers
## 12596            Sales staff
## 12597            Sales staff
## 12598         Cleaning staff
## 12599          Cooking staff
## 12600    Low-skill Laborers
## 12601           Secretaries
## 12618              Laborers
## 12619             Core staff
## 12620         Medicine staff
## 12621 High skill tech staff
## 12622         Medicine staff
## 12623             Core staff
## 12624             Core staff
## 12625           Accountants
## 12626             Core staff
## 12650         Security staff
## 12651              HR staff
## 12658         Cleaning staff
## 12659              HR staff
## 12660              HR staff
## 12672              Laborers
## 12673 Private service staff
## 12674             Core staff
## 12675              Laborers
## 12676              Laborers
## 12677 Private service staff
## 12678 High skill tech staff
## 12679            Sales staff
## 12680         Medicine staff
## 12681             Core staff
## 12682                Drivers
## 12683           Accountants
## 12689              HR staff
## 12690         Cleaning staff
## 12691         Security staff
## 12692              HR staff
## 12693              HR staff
## 12694              HR staff
## 12698              HR staff
## 12699         Cleaning staff
## 12700              HR staff
## 12701              HR staff
## 12702   Waiters/barmen staff
## 12703         Cleaning staff
## 12709              HR staff
## 12710              HR staff
## 12711              HR staff
## 12712              HR staff
## 12713              HR staff
```

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## 12714                HR staff
## 12715                HR staff
## 12716                HR staff
## 12717                HR staff
## 12740          Cleaning staff
## 12741          Security staff
## 12742          Cleaning staff
## 12743                HR staff
## 12744          Cleaning staff
## 12745                HR staff
## 12746          Cleaning staff
## 12748             Sales staff
## 12749              Core staff
## 12750              Core staff
## 12751             Sales staff
## 12762                HR staff
## 12763                HR staff
## 12764                HR staff
## 12769                HR staff
## 12770                HR staff
## 12771                HR staff
## 12772                HR staff
## 12773                HR staff
## 12774                HR staff
## 12775          Cleaning staff
## 12776          Cleaning staff
## 12777          Cleaning staff
## 12778          Cleaning staff
## 12779          Cleaning staff
## 12780                HR staff
## 12788                HR staff
## 12789                HR staff
## 12790                HR staff
## 12791          Security staff
## 12792                HR staff
## 12793                HR staff
## 12794                HR staff
## 12795  Waiters/barmen staff
## 12796                HR staff
## 12805                HR staff
## 12806          Cleaning staff
## 12807  Waiters/barmen staff
## 12823                HR staff
## 12824                HR staff
## 12825                HR staff
## 12826                HR staff
## 12827                HR staff
## 12828                HR staff
## 12831                HR staff
## 12832                HR staff
## 12833          Cleaning staff
## 12834          Cleaning staff
## 12835                HR staff
## 12836                HR staff
```

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## 12837              HR staff
## 12838              HR staff
## 12839        Cleaning staff
## 12840              Laborers
## 12841               Drivers
## 12842               Drivers
## 12843               Drivers
## 12844              Laborers
## 12845              Managers
## 12846    Low-skill Laborers
## 12857            Sales staff
## 12858            Sales staff
## 12859 High skill tech staff
## 12860              Laborers
## 12866        Cleaning staff
## 12867              HR staff
## 12868              HR staff
## 12869              HR staff
## 12870              HR staff
## 12871              HR staff
## 12872              HR staff
## 12873              HR staff
## 12874              HR staff
## 12875              HR staff
## 12876              HR staff
## 12877              HR staff
## 12878              HR staff
## 12879              HR staff
## 12887              HR staff
## 12888              HR staff
## 12889              HR staff
## 12890              HR staff
## 12891              HR staff
## 12892              HR staff
## 12893              HR staff
## 12894              HR staff
## 12895              HR staff
## 12915              HR staff
## 12916              HR staff
## 12917              HR staff
## 12918              HR staff
## 12919              HR staff
## 12927        Cleaning staff
## 12932              Laborers
## 12946              Managers
## 12957  Waiters/barmen staff
## 12958              HR staff
## 12962              HR staff
## 12963              HR staff
## 12964              HR staff
## 12965              HR staff
## 12966  Waiters/barmen staff
## 12980        Cleaning staff
## 12981              HR staff
```

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## 12982          Cleaning staff
## 12983                HR staff
## 12984          Cleaning staff
## 12985                HR staff
## 12986                HR staff
## 12989                Laborers
## 12991                HR staff
## 12992                HR staff
## 12993                HR staff
## 12994                HR staff
## 12995              Core staff
## 12996 High skill tech staff
## 12997                Laborers
## 12998             Sales staff
## 12999                HR staff
## 13007                Managers
## 13008              Core staff
## 13009             Accountants
## 13010          Cleaning staff
## 13011                Laborers
## 13012             Sales staff
## 13031                Managers
## 13061                HR staff
## 13062                HR staff
## 13063                HR staff
## 13064                HR staff
## 13065                HR staff
## 13066                HR staff
## 13067                HR staff
## 13068                HR staff
## 13076                HR staff
## 13077                HR staff
## 13085                HR staff
## 13086                HR staff
## 13087                HR staff
## 13088                HR staff
## 13089  Waiters/barmen staff
## 13090          Cleaning staff
## 13102                HR staff
## 13103                HR staff
## 13104                HR staff
## 13105          Cleaning staff
## 13106                HR staff
## 13115                HR staff
## 13150                HR staff
## 13151                HR staff
## 13152                HR staff
## 13153                HR staff
## 13154          Security staff
## 13155                HR staff
## 13156                HR staff
## 13157                HR staff
## 13158                HR staff
## 13161          Security staff
```

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## 13162              Core staff
## 13163                 Drivers
## 13205                Laborers
## 13206 High skill tech staff
## 13207                Laborers
## 13208             Sales staff
## 13209             Sales staff
## 13210             Accountants
## 13211                 Drivers
## 13212                IT staff
## 13213              Core staff
## 13221          Cleaning staff
## 13222             Sales staff
## 13223             Sales staff
## 13224             Sales staff
## 13225                Laborers
## 13226                 Drivers
## 13227             Sales staff
## 13228          Cleaning staff
## 13229          Security staff
## 13230           Cooking staff
## 13231           Cooking staff
## 13232             Accountants
## 13233                 Drivers
## 13234             Sales staff
## 13235          Cleaning staff
## 13236                HR staff
## 13237                HR staff
## 13238                HR staff
## 13242                HR staff
## 13243                HR staff
## 13244                HR staff
## 13259                HR staff
## 13260                HR staff
## 13261                HR staff
## 13262                HR staff
## 13263                HR staff
## 13287  Waiters/barmen staff
## 13298             Accountants
## 13299             Sales staff
## 13327             Sales staff
## 13347                Laborers
## 13348 High skill tech staff
## 13354             Accountants
## 13355             Accountants
## 13356             Sales staff
## 13357              Core staff
## 13358              Core staff
## 13365                HR staff
## 13413                Laborers
## 13414                Laborers
## 13415                Laborers
## 13416                Laborers
## 13426              Core staff
```

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## 13427            Cooking staff
## 13428            Medicine staff
## 13429               Core staff
## 13430               Core staff
## 13431               Core staff
## 13432            Medicine staff
## 13433 Private service staff
## 13434 High skill tech staff
## 13435 High skill tech staff
## 13436            Medicine staff
## 13437               Core staff
## 13438            Medicine staff
## 13439            Cooking staff
## 13440            Cooking staff
## 13441               Core staff
## 13442               Core staff
## 13443               Core staff
## 13444            Cleaning staff
## 13445               Core staff
## 13446                 Laborers
## 13469                 HR staff
## 13474                 HR staff
## 13475                 HR staff
## 13476                 HR staff
## 13477                 HR staff
## 13478                 HR staff
## 13479                 HR staff
## 13480                 HR staff
## 13481              Sales staff
## 13494              Accountants
## 13495               Core staff
## 13496              Accountants
## 13497                  Drivers
## 13498               Core staff
## 13499               Core staff
## 13500               Core staff
## 13501                  Drivers
## 13502                 Laborers
## 13503                 Laborers
## 13504                 Laborers
## 13505              Accountants
## 13506              Sales staff
## 13507            Cooking staff
## 13508               Core staff
## 13509               Core staff
## 13510            Cooking staff
## 13511            Cleaning staff
## 13512              Sales staff
## 13514                 HR staff
## 13515                 HR staff
## 13516                 HR staff
## 13517                 HR staff
## 13518                 HR staff
## 13519                 HR staff
```

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## 13520               HR staff
## 13521               HR staff
## 13522               HR staff
## 13523               HR staff
## 13524               HR staff
## 13525               HR staff
## 13526               HR staff
## 13527               HR staff
## 13528               HR staff
## 13577               Laborers
## 13578               Managers
## 13579            Sales staff
## 13580             Core staff
## 13581             Core staff
## 13582            Secretaries
## 13583 Private service staff
## 13584 High skill tech staff
## 13585            Sales staff
## 13586 High skill tech staff
## 13587          Cooking staff
## 13588            Sales staff
## 13604               HR staff
## 13605               HR staff
## 13606               HR staff
## 13607               HR staff
## 13608               HR staff
## 13612               Managers
## 13613             Core staff
## 13614             Core staff
## 13615          Cooking staff
## 13616             Core staff
## 13617            Secretaries
## 13697 Private service staff
## 13698                Drivers
## 13699               Managers
## 13700               Managers
## 13701         Security staff
## 13702               Managers
## 13706                Drivers
## 13710            Sales staff
## 13711         Cleaning staff
## 13712               HR staff
## 13713               HR staff
## 13714               HR staff
## 13737             Core staff
## 13738                Drivers
## 13739               Managers
## 13740               Managers
## 13741               Managers
## 13789   Waiters/barmen staff
## 13790         Cleaning staff
## 13791         Cleaning staff
## 13792   Waiters/barmen staff
## 13819               HR staff
```

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## 13820              HR staff
## 13821              HR staff
## 13822              HR staff
## 13823              HR staff
## 13824              HR staff
## 13825              HR staff
## 13826              HR staff
## 13827              HR staff
## 13828              HR staff
## 13829              HR staff
## 13830              HR staff
## 13831              HR staff
## 13832              HR staff
## 13834               Drivers
## 13835 High skill tech staff
## 13836 High skill tech staff
## 13837           Secretaries
## 13838            Core staff
## 13839           Sales staff
## 13840           Sales staff
## 13855              HR staff
## 13856              HR staff
## 13857              HR staff
## 13864              HR staff
## 13865              HR staff
## 13866        Cleaning staff
## 13867   Waiters/barmen staff
## 13868              HR staff
## 13869              HR staff
## 13870              HR staff
## 13873               Drivers
## 13874              Managers
## 13875              Laborers
## 13907              HR staff
## 13908        Cleaning staff
## 13909        Security staff
## 13918              HR staff
## 13919              HR staff
## 13920              HR staff
## 13921              HR staff
## 13922   Waiters/barmen staff
## 13929            Core staff
## 13930            Core staff
## 13931            Core staff
## 13932        Medicine staff
## 13933              Laborers
## 13934           Sales staff
## 13935           Sales staff
## 13936 High skill tech staff
## 13952              HR staff
## 13953              HR staff
## 13954              HR staff
## 13955              HR staff
## 13957        Security staff
```

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## 13958              HR staff
## 13959              HR staff
## 13970         Cleaning staff
## 13971              HR staff
## 13983              HR staff
## 13984    Waiters/barmen staff
## 13985              HR staff
## 13986         Cleaning staff
## 13987              HR staff
## 13988              HR staff
## 13989         Cleaning staff
## 13991              HR staff
## 13992         Cleaning staff
## 13993              HR staff
## 13994              HR staff
## 13995              HR staff
## 13996              HR staff
## 13997              HR staff
## 13998              HR staff
## 13999              HR staff
## 14000              HR staff
## 14001              HR staff
## 14002              HR staff
## 14003              HR staff
## 14004              HR staff
## 14005    Waiters/barmen staff
## 14006              HR staff
## 14010         Cleaning staff
## 14011              HR staff
## 14012              HR staff
## 14032              HR staff
## 14038              HR staff
## 14039              HR staff
## 14040              HR staff
## 14073         Cleaning staff
## 14074              HR staff
## 14075              HR staff
## 14076              HR staff
## 14090               Drivers
## 14094              HR staff
## 14149              HR staff
## 14150              HR staff
## 14151              HR staff
## 14153              HR staff
## 14156              Laborers
## 14158              HR staff
## 14159              HR staff
## 14178         Cleaning staff
## 14179              Laborers
## 14186              HR staff
## 14187            Sales staff
## 14188              HR staff
## 14189         Cleaning staff
## 14192              HR staff
```

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## 14193               HR staff
## 14194          Medicine staff
## 14195           Cooking staff
## 14209          Security staff
## 14210          Cleaning staff
## 14211               HR staff
## 14212               HR staff
## 14222               HR staff
## 14223               HR staff
## 14251               HR staff
## 14252               HR staff
## 14253               HR staff
## 14254               HR staff
## 14255               HR staff
## 14259                Drivers
## 14260             Sales staff
## 14261              Core staff
## 14262             Sales staff
## 14263              Core staff
## 14264              Core staff
## 14265           Cooking staff
## 14266             Sales staff
## 14271               HR staff
## 14272               HR staff
## 14273               HR staff
## 14278 High skill tech staff
## 14279 Private service staff
## 14280              Core staff
## 14281 High skill tech staff
## 14282           Cooking staff
## 14283              Core staff
## 14284             Sales staff
## 14285             Sales staff
## 14286               HR staff
## 14325              Core staff
## 14326              Core staff
## 14327               Managers
## 14328            Accountants
## 14329 High skill tech staff
## 14330               Managers
## 14331              Core staff
## 14332               Managers
## 14341               HR staff
## 14342               HR staff
## 14343               HR staff
## 14344          Cleaning staff
## 14345          Cleaning staff
## 14365               HR staff
## 14371               Laborers
## 14372          Security staff
## 14373               HR staff
## 14374               HR staff
## 14375               HR staff
## 14376               HR staff
```

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## 14377              HR staff
## 14378  Waiters/barmen staff
## 14379              HR staff
## 14380              HR staff
## 14381              HR staff
## 14390              HR staff
## 14391              HR staff
## 14392              HR staff
## 14400        Cleaning staff
## 14401              HR staff
## 14402  Waiters/barmen staff
## 14403              HR staff
## 14404              HR staff
## 14405              Laborers
## 14406           Sales staff
## 14407           Sales staff
## 14418              HR staff
## 14419        Security staff
## 14420              HR staff
## 14421        Security staff
## 14422              HR staff
## 14423           Sales staff
## 14424              HR staff
## 14425              HR staff
## 14426              HR staff
## 14427              HR staff
## 14428        Medicine staff
## 14429         Cooking staff
## 14430              Laborers
## 14431           Sales staff
## 14432        Medicine staff
## 14433        Cleaning staff
## 14434              Laborers
## 14440               Drivers
## 14441              Managers
## 14465        Cleaning staff
## 14466        Cleaning staff
## 14467        Cleaning staff
## 14468              HR staff
## 14469              HR staff
## 14470        Cleaning staff
## 14471        Cleaning staff
## 14492              HR staff
## 14493              HR staff
## 14494              HR staff
## 14495              HR staff
## 14496              HR staff
## 14497              HR staff
## 14498              HR staff
## 14499              HR staff
## 14510              HR staff
## 14511              HR staff
## 14512              HR staff
## 14513              HR staff
```

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## 14514              HR staff
## 14515              HR staff
## 14516              HR staff
## 14517  Waiters/barmen staff
## 14518              HR staff
## 14519              HR staff
## 14520              HR staff
## 14521        Cleaning staff
## 14522              HR staff
## 14523              HR staff
## 14524              HR staff
## 14525              HR staff
## 14532              HR staff
## 14536  Waiters/barmen staff
## 14537        Cleaning staff
## 14538              HR staff
## 14539              HR staff
## 14540              HR staff
## 14541              HR staff
## 14542        Cleaning staff
## 14543              HR staff
## 14544              HR staff
## 14545        Security staff
## 14546        Security staff
## 14547              HR staff
## 14548        Security staff
## 14556              HR staff
## 14557              HR staff
## 14558        Cleaning staff
## 14559              HR staff
## 14560              HR staff
## 14561              HR staff
## 14562              HR staff
## 14563              HR staff
## 14564              HR staff
## 14567              Laborers
## 14568            Core staff
## 14569        Security staff
## 14570               Drivers
## 14571               Drivers
## 14572           Accountants
## 14573              Managers
## 14574              Managers
## 14618              HR staff
## 14619              HR staff
## 14620        Security staff
## 14621              HR staff
## 14622        Cleaning staff
## 14623              HR staff
## 14624        Cleaning staff
## 14625              HR staff
## 14626        Cleaning staff
## 14628 Private service staff
## 14629               Drivers
```

```
## 14630           Core staff
## 14631 High skill tech staff
## 14632           Laborers
## 14633           Laborers
## 14634 High skill tech staff
## 14635      Security staff
## 14636           Laborers
## 14637           Laborers
## 14638           Laborers
## 14639            Drivers
## 14640           Laborers
## 14641          Core staff
## 14642 High skill tech staff
## 14643            Drivers
## 14644           Laborers
## 14645            Drivers
## 14668           HR staff
## 14697           HR staff
## 14698           HR staff
## 14699           HR staff
## 14700           HR staff
## 14701           HR staff
## 14702           HR staff
## 14703           HR staff
## 14704           HR staff
## 14705           HR staff
## 14706           Laborers
## 14707         Core staff
## 14708         Core staff
## 14709        Sales staff
## 14710           Laborers
## 14711           Laborers
## 14712           Managers
## 14713           Laborers
## 14714           Laborers
## 14715        Sales staff
## 14716         Core staff
## 14717           Laborers
## 14718           Laborers
## 14719           Laborers
## 14720        Sales staff
## 14721 High skill tech staff
## 14728           Laborers
## 14741 High skill tech staff
## 14742           Laborers
## 14743           HR staff
## 14744           HR staff
## 14745           HR staff
## 14746           HR staff
## 14747      Cleaning staff
## 14748           HR staff
## 14749           HR staff
## 14750      Cleaning staff
## 14778      Cleaning staff
```

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## 14779             HR staff
## 14780             HR staff
## 14781       Cleaning staff
## 14782             HR staff
## 14783             HR staff
## 14784             HR staff
## 14786             HR staff
## 14787             HR staff
## 14788             HR staff
## 14795             HR staff
## 14796             HR staff
## 14797             HR staff
## 14808 High skill tech staff
## 14809           Core staff
## 14810 High skill tech staff
## 14811          Accountants
## 14820             HR staff
## 14821             HR staff
## 14822             HR staff
## 14823             HR staff
## 14824             HR staff
## 14825             HR staff
## 14826             HR staff
## 14827       Cleaning staff
## 14828       Cleaning staff
## 14829             HR staff
## 14830             HR staff
## 14831             HR staff
## 14835  Waiters/barmen staff
## 14836             HR staff
## 14851 High skill tech staff
## 14852             HR staff
## 14853  Waiters/barmen staff
## 14854             HR staff
## 14855  Waiters/barmen staff
## 14856             HR staff
## 14857          Sales staff
## 14858 High skill tech staff
## 14859              Drivers
## 14860          Secretaries
## 14897          Accountants
## 14898             Laborers
## 14899             Laborers
## 14900              Drivers
## 14901           Core staff
## 14902           Core staff
## 14903           Core staff
## 14904          Sales staff
## 14905             Managers
## 14906             Laborers
## 14907        Cooking staff
## 14908             HR staff
## 14909             HR staff
## 14910             HR staff
```

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## 14911               HR staff
## 14912               HR staff
## 14913               HR staff
## 14914               HR staff
## 14915               HR staff
## 14926               HR staff
## 14927               HR staff
## 14928               HR staff
## 14929            Sales staff
## 14930              Laborers
## 14931            Sales staff
## 14932            Secretaries
## 14933              Laborers
## 14934              Laborers
## 14935 High skill tech staff
## 14936              Managers
## 14937               HR staff
## 14938               HR staff
## 14939               HR staff
## 14940               HR staff
## 14941         Cleaning staff
## 14942               HR staff
## 14943         Cleaning staff
## 14944               HR staff
## 14945               HR staff
## 14949               HR staff
## 14950               HR staff
## 14951               HR staff
## 14952               HR staff
## 14953               HR staff
## 14954   Waiters/barmen staff
## 14955               HR staff
## 14956               HR staff
## 14957               HR staff
## 14967               HR staff
## 14968               HR staff
## 14969               HR staff
## 14970               HR staff
## 14971               HR staff
## 14980               HR staff
## 14981               HR staff
## 14999               HR staff
## 15000         Cleaning staff
## 15001               HR staff
## 15002               HR staff
## 15003         Security staff
## 15004               HR staff
## 15005               HR staff
## 15006               HR staff
## 15007         Security staff
## 15008         Cleaning staff
## 15009               HR staff
## 15010               HR staff
## 15011         Cleaning staff
```

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## 15012              HR staff
## 15013              HR staff
## 15014              HR staff
## 15015              HR staff
## 15025              HR staff
## 15026              HR staff
## 15027              HR staff
## 15028              HR staff
## 15029              HR staff
## 15030              HR staff
## 15031              HR staff
## 15032              HR staff
## 15033              HR staff
## 15034              HR staff
## 15035         Security staff
## 15036              HR staff
## 15037              HR staff
## 15038         Cleaning staff
## 15039              HR staff
## 15040              HR staff
## 15041              HR staff
## 15042              HR staff
## 15043              HR staff
## 15044              Laborers
## 15045              Laborers
## 15046              Laborers
## 15047              Managers
## 15048             Sales staff
## 15049              Core staff
## 15050              Laborers
## 15051              Core staff
## 15052              Laborers
## 15053              Laborers
## 15054            Accountants
## 15059              HR staff
## 15074              HR staff
## 15075              HR staff
## 15076              HR staff
## 15077              HR staff
## 15078              HR staff
## 15079              HR staff
## 15080              HR staff
## 15081              HR staff
## 15082              HR staff
## 15083              HR staff
## 15084              HR staff
## 15085              HR staff
## 15086              HR staff
## 15087              HR staff
## 15088              HR staff
## 15089         Cleaning staff
## 15090         Security staff
## 15091              HR staff
## 15092              HR staff
```

```
## 15093          Cleaning staff
## 15094          Cleaning staff
## 15095                HR staff
## 15096                HR staff
## 15097                HR staff
## 15098          Security staff
## 15099                HR staff
## 15100                HR staff
## 15101          Cleaning staff
## 15102 Waiters/barmen staff
## 15103 Waiters/barmen staff
## 15104                HR staff
## 15105                HR staff
## 15106 Waiters/barmen staff
## 15107                HR staff
## 15118                HR staff
## 15119                HR staff
## 15120          Cleaning staff
## 15121                HR staff
## 15122                HR staff
## 15123                HR staff
## 15124                HR staff
## 15130                HR staff
## 15131                HR staff
## 15132                HR staff
## 15133                HR staff
## 15165                HR staff
## 15166                HR staff
## 15167                HR staff
## 15168                HR staff
## 15169                HR staff
## 15171             Sales staff
## 15172             Sales staff
## 15173             Sales staff
## 15174                 Drivers
## 15175              Core staff
## 15177 High skill tech staff
## 15178              Core staff
## 15179             Sales staff
## 15180          Medicine staff
## 15181             Sales staff
## 15182                Managers
## 15183             Accountants
## 15185      Low-skill Laborers
## 15186                HR staff
## 15187                HR staff
## 15195                HR staff
## 15196                HR staff
## 15197                HR staff
## 15198                HR staff
## 15202             Sales staff
## 15203                 Drivers
## 15204          Medicine staff
## 15205             Accountants
```

```
## 15206            Accountants
## 15207               Drivers
## 15235              HR staff
## 15236              HR staff
## 15237              HR staff
## 15238              HR staff
## 15239              HR staff
## 15240              HR staff
## 15241              HR staff
## 15242        Cleaning staff
## 15243              HR staff
## 15244              HR staff
## 15245              HR staff
## 15246        Security staff
## 15247              HR staff
## 15248  Waiters/barmen staff
## 15249              HR staff
## 15250              HR staff
## 15251              HR staff
## 15252              HR staff
## 15253              HR staff
## 15258              HR staff
## 15259              HR staff
## 15260              HR staff
## 15261              HR staff
## 15302            Core staff
## 15303               Drivers
## 15304               Drivers
## 15305              Laborers
## 15306            Core staff
## 15307            Core staff
## 15308              Laborers
## 15309               Drivers
## 15313  Waiters/barmen staff
## 15314  Waiters/barmen staff
## 15315              HR staff
## 15316              HR staff
## 15317              Laborers
## 15318              Laborers
## 15319              Laborers
## 15320            Core staff
## 15321            Core staff
## 15322           Sales staff
## 15323           Sales staff
## 15324               Drivers
## 15325           Sales staff
## 15326  Waiters/barmen staff
## 15329            Core staff
## 15330           Sales staff
## 15331           Sales staff
## 15332            Accountants
## 15333            Core staff
## 15334              HR staff
## 15335              HR staff
```

```
## 15336         Cleaning staff
## 15337              HR staff
## 15338              HR staff
## 15339              HR staff
## 15356        Security staff
## 15357              HR staff
## 15358        Security staff
## 15359           Accountants
## 15360              Laborers
## 15361              Laborers
## 15363              HR staff
## 15392              Laborers
## 15393              Laborers
## 15394              Laborers
## 15400         Cleaning staff
## 15401         Cleaning staff
## 15402            Sales staff
## 15403              Laborers
## 15404 High skill tech staff
## 15405              Laborers
## 15412        Security staff
## 15413              HR staff
## 15417                Drivers
## 15418 High skill tech staff
## 15419              HR staff
## 15420                Drivers
## 15421 High skill tech staff
## 15422                Drivers
## 15423            Sales staff
## 15436              HR staff
## 15437              HR staff
## 15438              HR staff
## 15439              HR staff
## 15440              HR staff
## 15441              HR staff
## 15442              HR staff
## 15443              HR staff
## 15460            Sales staff
## 15461        Security staff
## 15462 High skill tech staff
## 15463           Accountants
## 15464 Private service staff
## 15465            Sales staff
## 15466           Accountants
## 15467           Accountants
## 15468                Drivers
## 15469               Managers
## 15470            Secretaries
## 15479              Laborers
## 15480             Core staff
## 15481            Sales staff
## 15482             Core staff
## 15505                Drivers
## 15506               Managers
```

```
## 15507              Laborers
## 15508         Cleaning staff
## 15509         Cleaning staff
## 15510              Laborers
## 15511         Medicine staff
## 15512            Sales staff
## 15513         Cooking staff
## 15519               HR staff
## 15535               HR staff
## 15536               HR staff
## 15537         Security staff
## 15545         Medicine staff
## 15546              Managers
## 15547         Medicine staff
## 15548         Cooking staff
## 15549              Laborers
## 15550         Realty agents
## 15551            Sales staff
## 15552             Core staff
## 15553            Sales staff
## 15554         Realty agents
## 15555            Accountants
## 15556               Drivers
## 15564               HR staff
## 15565               HR staff
## 15566               Drivers
## 15567              Laborers
## 15568              Laborers
## 15569               Drivers
## 15570              Laborers
## 15571            Sales staff
## 15572 High skill tech staff
## 15573             Core staff
## 15574              Laborers
## 15575 High skill tech staff
## 15576            Sales staff
## 15577              Laborers
## 15578 Private service staff
## 15579              Laborers
## 15580              Laborers
## 15589               HR staff
## 15590               HR staff
## 15591               HR staff
## 15592               HR staff
## 15604         Cooking staff
## 15605 High skill tech staff
## 15606 High skill tech staff
## 15607             Core staff
## 15608         Cooking staff
## 15609               Drivers
## 15610         Realty agents
## 15611 Private service staff
## 15612             Core staff
## 15625               HR staff
```

```
## 15626                 HR staff
## 15627                 HR staff
## 15628                 HR staff
## 15629           Cleaning staff
## 15630                 HR staff
## 15631                 HR staff
## 15632                 HR staff
## 15633                 HR staff
## 15634                 HR staff
## 15639                 HR staff
## 15640                 HR staff
## 15641                 HR staff
## 15642                 HR staff
## 15650           Medicine staff
## 15651           Medicine staff
## 15652               Core staff
## 15653           Medicine staff
## 15654           Medicine staff
## 15655           Medicine staff
## 15667                  Drivers
## 15668              Sales staff
## 15669               Core staff
## 15670                 Laborers
## 15671                 Laborers
## 15673                 HR staff
## 15674                 HR staff
## 15675                 HR staff
## 15681                 Laborers
## 15682               Core staff
## 15683               Core staff
## 15703    Waiters/barmen staff
## 15730               Core staff
## 15731               Core staff
## 15732              Accountants
## 15733                 Managers
## 15734               Core staff
## 15735               Core staff
## 15736            Realty agents
## 15737           Security staff
## 15738                 Managers
## 15739                 IT staff
## 15740                 Managers
## 15741   Private service staff
## 15742           Cleaning staff
## 15743   Private service staff
## 15744              Secretaries
## 15745           Medicine staff
## 15746                 HR staff
## 15747                 HR staff
## 15748                 HR staff
## 15749                 HR staff
## 15750                 HR staff
## 15757                 HR staff
## 15760                 HR staff
```

```
## 15761               HR staff
## 15790              Managers
## 15791           Accountants
## 15792         Realty agents
## 15793           Sales staff
## 15794           Secretaries
## 15795                Drivers
## 15796            Core staff
## 15805              Laborers
## 15806              Laborers
## 15807           Sales staff
## 15857           Accountants
## 15858           Accountants
## 15859           Accountants
## 15860            Core staff
## 15876              Managers
## 15877                Drivers
## 15878            Core staff
## 15879              Managers
## 15889               HR staff
## 15890               HR staff
## 15899  Waiters/barmen staff
## 15900               HR staff
## 15901               HR staff
## 15902               HR staff
## 15903               HR staff
## 15904               HR staff
## 15934              Managers
## 15935            Core staff
## 15936              Laborers
## 15946               HR staff
## 15947               HR staff
## 15948               HR staff
## 15949               HR staff
## 15950               HR staff
## 15956            Core staff
## 15957 Private service staff
## 15958               HR staff
## 15959  Waiters/barmen staff
## 15960               HR staff
## 15992            Core staff
## 15993           Sales staff
## 15994              Laborers
## 15995           Sales staff
## 15996 High skill tech staff
## 15997                Drivers
## 16009           Sales staff
## 16010           Secretaries
## 16011           Sales staff
## 16032 High skill tech staff
## 16033           Sales staff
## 16039           Sales staff
## 16040           Accountants
## 16052           Sales staff
```

```
## 16053         Cleaning staff
## 16054            Sales staff
## 16055               HR staff
## 16056               HR staff
## 16057               HR staff
## 16058         Security staff
## 16059               HR staff
## 16060               HR staff
## 16061               HR staff
## 16062               HR staff
## 16094               HR staff
## 16095               HR staff
## 16096               HR staff
## 16100               HR staff
## 16101               HR staff
## 16102               HR staff
## 16117               HR staff
## 16118               HR staff
## 16119         Security staff
## 16149                Drivers
## 16150         Medicine staff
## 16151         Security staff
## 16152               Laborers
## 16153            Sales staff
## 16154            Sales staff
## 16155               Laborers
## 16156            Sales staff
## 16157          Realty agents
## 16158               Managers
## 16159             Core staff
## 16160               Managers
## 16161            Accountants
## 16162            Accountants
## 16163            Accountants
## 16164               Managers
## 16165            Sales staff
## 16180               HR staff
## 16181               HR staff
## 16182               HR staff
## 16183  Waiters/barmen staff
## 16184               HR staff
## 16190               HR staff
## 16191               HR staff
## 16192               HR staff
## 16202               HR staff
## 16203               HR staff
## 16204               HR staff
## 16205               HR staff
## 16206               HR staff
## 16207  Waiters/barmen staff
## 16208               HR staff
## 16210               HR staff
## 16211         Cleaning staff
## 16212               HR staff
```

```
## 16213                HR staff
## 16214                HR staff
## 16215                HR staff
## 16228             Secretaries
## 16229             Sales staff
## 16230           Medicine staff
## 16231              Core staff
## 16236                HR staff
## 16239                HR staff
## 16240                HR staff
## 16241   Waiters/barmen staff
## 16242                HR staff
## 16243                HR staff
## 16244                HR staff
## 16257                HR staff
## 16258                HR staff
## 16259                HR staff
## 16260                HR staff
## 16261                HR staff
## 16262                HR staff
## 16263                HR staff
## 16264                HR staff
## 16273                Laborers
## 16281                HR staff
## 16282          Security staff
## 16283                HR staff
## 16284                HR staff
## 16285                HR staff
## 16286          Security staff
## 16287          Security staff
## 16288                HR staff
## 16289                HR staff
## 16290                HR staff
## 16291          Cleaning staff
## 16292                HR staff
## 16293                HR staff
## 16296             Secretaries
## 16297 Private service staff
## 16298          Cleaning staff
## 16299                Laborers
## 16300             Sales staff
## 16301          Security staff
## 16302          Security staff
## 16303              Core staff
## 16304             Sales staff
## 16305 High skill tech staff
## 16306                HR staff
## 16307           Cooking staff
## 16308 Private service staff
## 16309                Laborers
## 16310              Core staff
## 16311                Laborers
## 16312                Managers
## 16313                Managers
```

```
## 16314          Medicine staff
## 16315            Accountants
## 16316 High skill tech staff
## 16317               Drivers
## 16318              Managers
## 16319           Sales staff
## 16320            Core staff
## 16321              Managers
## 16322            Core staff
## 16323            Core staff
## 16324            Accountants
## 16333            Core staff
## 16334           Sales staff
## 16335              Laborers
## 16372              HR staff
## 16373              HR staff
## 16374           Sales staff
## 16375         Cooking staff
## 16376           Sales staff
## 16377          Medicine staff
## 16378 Private service staff
## 16379           Sales staff
## 16387              HR staff
## 16388              HR staff
## 16389              HR staff
## 16390              HR staff
## 16397        Security staff
## 16398              Laborers
## 16399              Laborers
## 16400              Laborers
## 16418         Realty agents
## 16419               Drivers
## 16420            Core staff
## 16421            Core staff
## 16422            Core staff
## 16423            Core staff
## 16431              HR staff
## 16432              HR staff
## 16433              HR staff
## 16434              HR staff
## 16435   Waiters/barmen staff
## 16436              HR staff
## 16444              HR staff
## 16445              HR staff
## 16446              HR staff
## 16467              HR staff
## 16468        Cleaning staff
## 16469        Cleaning staff
## 16470        Cleaning staff
## 16471              HR staff
## 16484           Sales staff
## 16485               Drivers
## 16486               Drivers
## 16487              HR staff
```

```
## 16488  Waiters/barmen staff
## 16489              HR staff
## 16490              HR staff
## 16491        Cleaning staff
## 16492        Medicine staff
## 16493               Drivers
## 16495              Laborers
## 16496               Drivers
## 16497               Drivers
## 16498 High skill tech staff
## 16499 High skill tech staff
## 16500               Drivers
## 16501 High skill tech staff
## 16502           Sales staff
## 16503           Sales staff
## 16504               Drivers
## 16505               Drivers
## 16506            Core staff
## 16507              Laborers
## 16508              Laborers
## 16509              Laborers
## 16510           Sales staff
## 16511        Security staff
## 16512        Security staff
## 16513            Core staff
## 16520 High skill tech staff
## 16521           Sales staff
## 16522        Medicine staff
## 16523        Cleaning staff
## 16524            Core staff
## 16525              Laborers
## 16526        Medicine staff
## 16527 High skill tech staff
## 16537        Cleaning staff
## 16538              HR staff
## 16542              HR staff
## 16543              HR staff
## 16544              HR staff
## 16545              Managers
## 16546           Sales staff
## 16550              HR staff
## 16551              HR staff
## 16552        Cleaning staff
## 16553              HR staff
## 16554              HR staff
## 16555              HR staff
## 16556              HR staff
## 16557              HR staff
## 16558        Security staff
## 16559              HR staff
## 16563              HR staff
## 16564              HR staff
## 16565              HR staff
## 16566              HR staff
```

```
## 16567         Cleaning staff
## 16568              Laborers
## 16569           Sales staff
## 16570           Sales staff
## 16571 High skill tech staff
## 16572             Core staff
## 16574               HR staff
## 16575               HR staff
## 16592               HR staff
## 16593               HR staff
## 16594               HR staff
## 16618   Waiters/barmen staff
## 16619         Cleaning staff
## 16620         Cleaning staff
## 16621         Cleaning staff
## 16622         Cleaning staff
## 16630   Waiters/barmen staff
## 16631               HR staff
## 16632               HR staff
## 16633               HR staff
## 16634         Security staff
## 16635               HR staff
## 16636             Core staff
## 16637                Drivers
## 16638             Core staff
## 16659              Laborers
## 16660              Laborers
## 16661              Laborers
## 16662 High skill tech staff
## 16663                Drivers
## 16664         Security staff
## 16665              Laborers
## 16666               Managers
## 16667              Laborers
## 16669               HR staff
## 16705               HR staff
## 16706               HR staff
## 16707               HR staff
## 16708   Waiters/barmen staff
## 16709               HR staff
## 16710               HR staff
## 16711         Cleaning staff
## 16712         Cleaning staff
## 16713               HR staff
## 16714               HR staff
## 16715         Cleaning staff
## 16716               HR staff
## 16717               HR staff
## 16718               HR staff
## 16719               HR staff
## 16720               HR staff
## 16723               HR staff
## 16724               HR staff
## 16738         Cleaning staff
```

```
## 16739             HR staff
## 16752          Sales staff
## 16760             HR staff
## 16774            Laborers
## 16775            Laborers
## 16781 Waiters/barmen staff
## 16782       Security staff
## 16783             HR staff
## 16810             HR staff
## 16834             HR staff
## 16835             HR staff
## 16836             HR staff
## 16837             HR staff
## 16838 Waiters/barmen staff
## 16839 Waiters/barmen staff
## 16849 Waiters/barmen staff
## 16850       Cleaning staff
## 16851       Cleaning staff
## 16852             HR staff
## 16853             HR staff
## 16858            Laborers
## 16859              Drivers
## 16860             Managers
## 16861              Drivers
## 16862            Laborers
## 16863       Cleaning staff
## 16914             HR staff
## 16915             HR staff
## 16916             HR staff
## 16921          Sales staff
## 16922          Sales staff
## 16923       Security staff
## 16946             HR staff
## 16947             HR staff
## 16948             HR staff
## 16949             HR staff
## 16950             HR staff
## 16951             HR staff
## 16952             HR staff
## 16953          Accountants
## 16954             Managers
## 16955          Sales staff
## 16956          Accountants
## 16957        Realty agents
## 16958          Sales staff
## 16959       Cleaning staff
## 16960 Waiters/barmen staff
## 16961          Sales staff
## 16968            Laborers
## 16969            Laborers
## 16970            Laborers
## 16971            Laborers
## 16972            Laborers
## 16973           Core staff
```

```
## 16974        Security staff
## 16975        Medicine staff
## 16976             Laborers
## 16977        Cleaning staff
## 16978             Managers
## 16979          Accountants
## 16980           Core staff
## 16981          Sales staff
## 16990             HR staff
## 16991             HR staff
## 16992             HR staff
## 16993             HR staff
## 16994             HR staff
## 16995             HR staff
## 16998        Cleaning staff
## 16999             HR staff
## 17000              Drivers
## 17001             Laborers
## 17002              Drivers
## 17003        Security staff
## 17004              Drivers
## 17017              Drivers
## 17018           Core staff
## 17019          Sales staff
## 17020          Accountants
## 17021          Sales staff
## 17022          Sales staff
## 17023             Laborers
## 17028          Accountants
## 17029             Managers
## 17030        Medicine staff
## 17031           Core staff
## 17082             HR staff
## 17083 Waiters/barmen staff
## 17084             HR staff
## 17085             HR staff
## 17086             HR staff
## 17087        Cleaning staff
## 17088        Cleaning staff
## 17089 Waiters/barmen staff
## 17095             HR staff
## 17096             HR staff
## 17097             HR staff
## 17098             HR staff
## 17099             HR staff
## 17100             HR staff
## 17101             HR staff
## 17102             HR staff
## 17103             HR staff
## 17104             HR staff
## 17105             HR staff
## 17106             HR staff
## 17107             HR staff
## 17108             HR staff
```

```
## 17109         Cleaning staff
## 17110  Waiters/barmen staff
## 17111  Waiters/barmen staff
## 17112             HR staff
## 17113             HR staff
## 17114             HR staff
## 17133             HR staff
## 17148             Laborers
## 17149          Accountants
## 17150       Security staff
## 17151          Sales staff
## 17158       Security staff
## 17166         Realty agents
## 17167             Managers
## 17168         Realty agents
## 17169             Managers
## 17170             Managers
## 17171           Core staff
## 17172              Drivers
## 17173             Managers
## 17174             Managers
## 17175         Realty agents
## 17176 High skill tech staff
## 17177 High skill tech staff
## 17178             HR staff
## 17179             HR staff
## 17180         Cleaning staff
## 17181       Security staff
## 17182  Waiters/barmen staff
## 17183             HR staff
## 17184         Cleaning staff
## 17185         Cleaning staff
## 17187         Cleaning staff
## 17188          Sales staff
## 17189        Cooking staff
## 17190           Core staff
## 17191 High skill tech staff
## 17192             Laborers
## 17193             HR staff
## 17194             HR staff
## 17195             HR staff
## 17196             HR staff
## 17197             HR staff
## 17198             HR staff
## 17203       Security staff
## 17209 High skill tech staff
## 17210          Sales staff
## 17211          Sales staff
## 17219             HR staff
## 17220             HR staff
## 17221             HR staff
## 17222             HR staff
## 17223             HR staff
## 17224             HR staff
```

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## 17225               HR staff
## 17226               HR staff
## 17246               HR staff
## 17247  Waiters/barmen staff
## 17254               Managers
## 17255  Waiters/barmen staff
## 17256              Core staff
## 17257               Managers
## 17258              Core staff
## 17259          Medicine staff
## 17260               Managers
## 17271          Cleaning staff
## 17272               HR staff
## 17273               HR staff
## 17274               HR staff
## 17275               HR staff
## 17276               HR staff
## 17277               HR staff
## 17278               HR staff
## 17279               HR staff
## 17280               HR staff
## 17281               HR staff
## 17288               HR staff
## 17301          Cleaning staff
## 17302               HR staff
## 17303               HR staff
## 17304               HR staff
## 17305              Core staff
## 17306          Medicine staff
## 17307             Sales staff
## 17308               Laborers
## 17309              Core staff
## 17310          Medicine staff
## 17311              Core staff
## 17312             Secretaries
## 17313                 Drivers
## 17314              Core staff
## 17327             Sales staff
## 17328             Accountants
## 17329  Private service staff
## 17330              Core staff
## 17331                 Drivers
## 17332             Sales staff
## 17333             Sales staff
## 17334             Sales staff
## 17358           Cooking staff
## 17376          Medicine staff
## 17377              Core staff
## 17378             Sales staff
## 17401             Sales staff
## 17402             Sales staff
## 17403             Accountants
## 17404             Sales staff
## 17405             Sales staff
```

```
## 17406          Security staff
## 17407            Accountants
## 17408             Core staff
## 17410               Laborers
## 17427                Drivers
## 17428            Secretaries
## 17429            Accountants
## 17430            Accountants
## 17431            Sales staff
## 17432            Sales staff
## 17433          Cooking staff
## 17434  Waiters/barmen staff
## 17435            Sales staff
## 17436            Sales staff
## 17439               HR staff
## 17440          Cleaning staff
## 17466                Drivers
## 17467                Drivers
## 17468                Drivers
## 17469               Laborers
## 17470               Laborers
## 17471                Drivers
## 17472             Core staff
## 17473                Drivers
## 17474               Laborers
## 17475               Laborers
## 17476               HR staff
## 17477          Security staff
## 17478               HR staff
## 17479  Waiters/barmen staff
## 17480               HR staff
## 17481               HR staff
## 17482               HR staff
## 17483               HR staff
## 17484               HR staff
## 17485               HR staff
## 17496               HR staff
## 17497               HR staff
## 17498          Security staff
## 17499               HR staff
## 17500               HR staff
## 17501               HR staff
## 17502            Sales staff
## 17503 High skill tech staff
## 17504             Core staff
## 17505          Medicine staff
## 17506               Managers
## 17507 High skill tech staff
## 17508            Sales staff
## 17509            Sales staff
## 17510            Accountants
## 17511             Core staff
## 17512            Sales staff
## 17513             Core staff
```

```
## 17514           Core staff
## 17515             Managers
## 17516        Cleaning staff
## 17517        Medicine staff
## 17541 High skill tech staff
## 17542            Sales staff
## 17543             Laborers
## 17544 High skill tech staff
## 17564            Sales staff
## 17565             Managers
## 17566           Core staff
## 17567             Managers
## 17602              HR staff
## 17603              HR staff
## 17604        Cleaning staff
## 17605              HR staff
## 17606              HR staff
## 17607              HR staff
## 17608        Cleaning staff
## 17609        Cleaning staff
## 17610              HR staff
## 17611              HR staff
## 17612        Cleaning staff
## 17613              HR staff
## 17614              HR staff
## 17616              HR staff
## 17617        Cleaning staff
## 17618              HR staff
## 17649              HR staff
## 17663              HR staff
## 17664              HR staff
## 17665   Waiters/barmen staff
## 17666              HR staff
## 17667        Cleaning staff
## 17668              HR staff
## 17669              HR staff
## 17670              HR staff
## 17671              HR staff
## 17672              HR staff
## 17673              HR staff
## 17674             Laborers
## 17675              Drivers
## 17676              Drivers
## 17677             Laborers
## 17678             Laborers
## 17679             Laborers
## 17680    Low-skill Laborers
## 17685             Laborers
## 17686   Waiters/barmen staff
## 17700              HR staff
## 17714        Security staff
## 17715            Sales staff
## 17716           Core staff
## 17717           Secretaries
```

```
## 17718           Secretaries
## 17719          Accountants
## 17720          Sales staff
## 17721             Laborers
## 17722             Managers
## 17723             Laborers
## 17724          Accountants
## 17725             Laborers
## 17744          Accountants
## 17745              Drivers
## 17785             Laborers
## 17786             Laborers
## 17787         Cooking staff
## 17788             Laborers
## 17797             HR staff
## 17798             HR staff
## 17799             HR staff
## 17800             HR staff
## 17836          Sales staff
## 17837          Sales staff
## 17838       Security staff
## 17849             HR staff
## 17850             HR staff
## 17851             HR staff
## 17852             HR staff
## 17853             HR staff
## 17854             HR staff
## 17857        Cleaning staff
## 17858        Cleaning staff
## 17883             HR staff
## 17888             HR staff
## 17889             HR staff
## 17894          Sales staff
## 17902             HR staff
## 17920            Core staff
## 17921            Core staff
## 17922             Managers
## 17923              Drivers
## 17924             Managers
## 17925              Drivers
## 17926             Laborers
## 17927           Secretaries
## 17928             Managers
## 17951       Medicine staff
## 17952             Laborers
## 17953 High skill tech staff
## 17954 High skill tech staff
## 17955             Laborers
## 17956          Sales staff
## 17957          Sales staff
## 17958          Accountants
## 17972             HR staff
## 17973             HR staff
## 17974             HR staff
```

```
## 17977               Drivers
## 17978              Laborers
## 18021              HR staff
## 18022              HR staff
## 18023              HR staff
## 18024              HR staff
## 18098            Core staff
## 18099              Managers
## 18100          Cooking staff
## 18109 High skill tech staff
## 18110          Cooking staff
## 18111            Core staff
## 18118              HR staff
## 18119              HR staff
## 18120              HR staff
## 18151   Waiters/barmen staff
## 18152              HR staff
## 18157              Laborers
## 18158            Secretaries
## 18159               Drivers
## 18160            Sales staff
## 18161            Core staff
## 18162              Laborers
## 18163               Drivers
## 18178              Laborers
## 18179            Accountants
## 18180            Accountants
## 18181            Core staff
## 18182            Core staff
## 18183              Laborers
## 18184            Sales staff
## 18185 Private service staff
## 18186            Sales staff
## 18187            Sales staff
## 18188            Sales staff
## 18196            Sales staff
## 18202              HR staff
## 18203         Security staff
## 18204              HR staff
## 18205              HR staff
## 18211              HR staff
## 18212         Security staff
## 18213   Waiters/barmen staff
## 18214         Cleaning staff
## 18225              HR staff
## 18226              HR staff
## 18227              HR staff
## 18228            Accountants
## 18236              Managers
## 18273              HR staff
## 18274              HR staff
## 18275              HR staff
## 18288            Sales staff
## 18289              Laborers
```

```
## 18290              Laborers
## 18291              Managers
## 18292            Sales staff
## 18293              Laborers
## 18294               HR staff
## 18299              Managers
## 18300            Accountants
## 18301 High skill tech staff
## 18302              Managers
## 18303              Managers
## 18361               HR staff
## 18362               HR staff
## 18363         Cleaning staff
## 18364         Security staff
## 18365               HR staff
## 18366               HR staff
## 18367               HR staff
## 18368               HR staff
## 18395               HR staff
## 18396         Cleaning staff
## 18398 High skill tech staff
## 18399            Sales staff
## 18400              Laborers
## 18401              Managers
## 18402              Managers
## 18403             Core staff
## 18404            Sales staff
## 18419               HR staff
## 18420               HR staff
## 18421               HR staff
## 18422         Security staff
## 18423               HR staff
## 18424               HR staff
## 18425               HR staff
## 18463               HR staff
## 18464               HR staff
## 18465         Cleaning staff
## 18483               HR staff
## 18484               HR staff
## 18485               HR staff
## 18486  Waiters/barmen staff
## 18487               HR staff
## 18488               HR staff
## 18490              Laborers
## 18506         Cleaning staff
## 18507               HR staff
## 18508               HR staff
## 18528         Security staff
## 18531         Cleaning staff
## 18541            Sales staff
## 18542              Managers
## 18548               HR staff
## 18549               HR staff
## 18550         Cleaning staff
```

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## 18551               HR staff
## 18552               HR staff
## 18553               HR staff
## 18554               HR staff
## 18555               HR staff
## 18556               HR staff
## 18557               HR staff
## 18575               HR staff
## 18576               HR staff
## 18577               HR staff
## 18592             Core staff
## 18593         Medicine staff
## 18594            Sales staff
## 18595            Sales staff
## 18596            Sales staff
## 18597             Core staff
## 18598         Cleaning staff
## 18599               HR staff
## 18600               HR staff
## 18602                Drivers
## 18603                Drivers
## 18604          Realty agents
## 18664             Core staff
## 18665             Core staff
## 18666             Core staff
## 18667               HR staff
## 18680               Laborers
## 18681               Laborers
## 18711                Drivers
## 18712         Security staff
## 18713         Security staff
## 18714                Drivers
## 18727             Core staff
## 18728            Accountants
## 18729               Laborers
## 18730 High skill tech staff
## 18731 High skill tech staff
## 18754               HR staff
## 18755               HR staff
## 18782               HR staff
## 18783         Cleaning staff
## 18784               HR staff
## 18788               HR staff
## 18812         Security staff
## 18813               HR staff
## 18814         Cleaning staff
## 18815               HR staff
## 18816         Cleaning staff
## 18817               HR staff
## 18818         Cleaning staff
## 18819               HR staff
## 18820         Cleaning staff
## 18821   Waiters/barmen staff
## 18822         Cleaning staff
```

```
## 18823           Cleaning staff
## 18824           Cleaning staff
## 18825           Cleaning staff
## 18826              Core staff
## 18827 High skill tech staff
## 18828               Managers
## 18829              Core staff
## 18830               Laborers
## 18831               Laborers
## 18832             Sales staff
## 18860             Accountants
## 18861             Accountants
## 18862 High skill tech staff
## 18863                 Drivers
## 18864 Private service staff
## 18865             Sales staff
## 18880                IT staff
## 18901               Laborers
## 18902               Laborers
## 18904                HR staff
## 18905  Waiters/barmen staff
## 18906                HR staff
## 18921                HR staff
## 18922                HR staff
## 18923                HR staff
## 18924               Laborers
## 18925              Core staff
## 18926                HR staff
## 18927  Waiters/barmen staff
## 18928                HR staff
## 18929                HR staff
## 18930           Cleaning staff
## 18942          Security staff
## 18960                HR staff
## 18961                HR staff
## 18965           Cleaning staff
## 18966                HR staff
## 18968                HR staff
## 18979             Sales staff
## 18996               Laborers
## 18997               Laborers
## 18998               Laborers
## 18999             Sales staff
## 19000           Cooking staff
## 19001                HR staff
## 19002                HR staff
## 19010               Laborers
## 19011                 Drivers
## 19012                 Drivers
## 19013               Laborers
## 19014                 Drivers
## 19015           Cooking staff
## 19037             Accountants
## 19038              Core staff
```

```
## 19044             Managers
## 19045          Sales staff
## 19046             HR staff
## 19047             HR staff
## 19048  Waiters/barmen staff
## 19049             HR staff
## 19050             Laborers
## 19051          Accountants
## 19052       Cleaning staff
## 19053          Sales staff
## 19054       Security staff
## 19057       Medicine staff
## 19058 Private service staff
## 19067             Laborers
## 19068       Cleaning staff
## 19076       Medicine staff
## 19077 High skill tech staff
## 19078 High skill tech staff
## 19079 High skill tech staff
## 19080             Laborers
## 19081          Accountants
## 19091       Cleaning staff
## 19094             Laborers
## 19095           Core staff
## 19096             Managers
## 19097             Laborers
## 19098           Core staff
## 19099             Managers
## 19100       Medicine staff
## 19101 High skill tech staff
## 19102          Accountants
## 19103             Managers
## 19107             HR staff
## 19108             HR staff
## 19120             HR staff
## 19131             HR staff
## 19132             HR staff
## 19133             HR staff
## 19134             HR staff
## 19135             HR staff
## 19141             Laborers
## 19152              Drivers
## 19153             Laborers
## 19154             HR staff
## 19155             HR staff
## 19175             HR staff
## 19176             HR staff
## 19181             Laborers
## 19182          Sales staff
## 19183             HR staff
## 19193       Medicine staff
## 19194           Core staff
## 19195          Secretaries
## 19196           Core staff
```

```
## 19198            Core staff
## 19199             Laborers
## 19200 High skill tech staff
## 19201           Sales staff
## 19241             Laborers
## 19259             HR staff
## 19260 High skill tech staff
## 19261        Medicine staff
## 19262           Secretaries
## 19263           Accountants
## 19264           Accountants
## 19265           Sales staff
## 19266           Accountants
## 19267 High skill tech staff
## 19282             Managers
## 19283           Accountants
## 19284           Accountants
## 19285             HR staff
## 19286             HR staff
## 19287             HR staff
## 19288  Waiters/barmen staff
## 19290             HR staff
## 19291  Waiters/barmen staff
## 19292             HR staff
## 19293             HR staff
## 19294        Cleaning staff
## 19328             HR staff
## 19329        Cleaning staff
## 19387             HR staff
## 19388             HR staff
## 19389             HR staff
## 19390             HR staff
## 19391  Waiters/barmen staff
## 19392             HR staff
## 19393             HR staff
## 19394             HR staff
## 19395             HR staff
## 19396             HR staff
## 19397             HR staff
## 19398             HR staff
## 19399             HR staff
## 19400             HR staff
## 19401             HR staff
## 19402             HR staff
## 19403        Security staff
## 19404             HR staff
## 19405             HR staff
## 19406             HR staff
## 19407             Managers
## 19408           Accountants
## 19409             Laborers
## 19410            Core staff
## 19411           Accountants
## 19412             Managers
```

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## 19413           Core staff
## 19414             Managers
## 19415           Core staff
## 19416          Accountants
## 19417             Managers
## 19418          Accountants
## 19419           Core staff
## 19420  Waiters/barmen staff
## 19421          Accountants
## 19422           Core staff
## 19423             Laborers
## 19424           Core staff
## 19425           Core staff
## 19426          Sales staff
## 19427             Managers
## 19428          Sales staff
## 19453             HR staff
## 19460          Sales staff
## 19461          Sales staff
## 19462             Managers
## 19463          Sales staff
## 19464             Managers
## 19465           Core staff
## 19466          Sales staff
## 19467 High skill tech staff
## 19468          Sales staff
## 19503          Accountants
## 19504           Core staff
## 19505          Sales staff
## 19506 High skill tech staff
## 19507             Managers
## 19508 Private service staff
## 19509          Accountants
## 19510             Managers
## 19511             Managers
## 19512       Medicine staff
## 19513           Core staff
## 19514             HR staff
## 19515             HR staff
## 19516             HR staff
## 19517             Managers
## 19518       Security staff
## 19519             Laborers
## 19530             HR staff
## 19531             HR staff
## 19532       Cleaning staff
## 19533             HR staff
## 19534             HR staff
## 19535             HR staff
## 19536             HR staff
## 19537             HR staff
## 19538             HR staff
## 19539             HR staff
## 19540             HR staff
```

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## 19541              HR staff
## 19542              HR staff
## 19543              HR staff
## 19544            Core staff
## 19545            Core staff
## 19546           Sales staff
## 19550              HR staff
## 19551              HR staff
## 19552              HR staff
## 19553              HR staff
## 19559              HR staff
## 19560              HR staff
## 19561              HR staff
## 19562  Waiters/barmen staff
## 19563              HR staff
## 19564              HR staff
## 19565              HR staff
## 19566        Cleaning staff
## 19567        Cleaning staff
## 19568        Cleaning staff
## 19569        Cleaning staff
## 19570        Cleaning staff
## 19571        Cleaning staff
## 19572              HR staff
## 19573              HR staff
## 19574              HR staff
## 19575              HR staff
## 19587        Security staff
## 19588              HR staff
## 19601            Core staff
## 19602        Security staff
## 19603               Drivers
## 19604               Drivers
## 19605 High skill tech staff
## 19606              Laborers
## 19607            Core staff
## 19608               Drivers
## 19609               Drivers
## 19610               Drivers
## 19611         Cooking staff
## 19612               Drivers
## 19613 High skill tech staff
## 19614              Laborers
## 19615              Laborers
## 19630              HR staff
## 19631              HR staff
## 19632              HR staff
## 19649              Managers
## 19650           Accountants
## 19651            Core staff
## 19652           Accountants
## 19653           Sales staff
## 19654        Medicine staff
## 19655           Accountants
```

```
## 19670              HR staff
## 19671              HR staff
## 19672              HR staff
## 19673  Waiters/barmen staff
## 19680              Managers
## 19681              Laborers
## 19682           Accountants
## 19683            Core staff
## 19684               Drivers
## 19685              Managers
## 19686            Core staff
## 19703              Managers
## 19704              HR staff
## 19705           Accountants
## 19706              HR staff
## 19707            Sales staff
## 19708            Core staff
## 19709 High skill tech staff
## 19710              Managers
## 19711              Managers
## 19712              Managers
## 19713           Accountants
## 19714            Sales staff
## 19715            Core staff
## 19716              HR staff
## 19717  Waiters/barmen staff
## 19718              Laborers
## 19719            Sales staff
## 19720            Sales staff
## 19721           Accountants
## 19722               Drivers
## 19723              HR staff
## 19724            Core staff
## 19738              HR staff
## 19739              HR staff
## 19740              HR staff
## 19741              HR staff
## 19748         Cleaning staff
## 19749              HR staff
## 19750              HR staff
## 19751              HR staff
## 19752               Drivers
## 19753          Cooking staff
## 19754           Secretaries
## 19755            Sales staff
## 19756            Core staff
## 19757              HR staff
## 19758         Cleaning staff
## 19759              HR staff
## 19760              HR staff
## 19761              HR staff
## 19762  Waiters/barmen staff
## 19763              HR staff
## 19764              HR staff
```

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## 19765               HR staff
## 19766               HR staff
## 19767               HR staff
## 19768               HR staff
## 19773               HR staff
## 19774               HR staff
## 19775         Cleaning staff
## 19776               HR staff
## 19777         Cleaning staff
## 19778               HR staff
## 19779               HR staff
## 19780               HR staff
## 19787               HR staff
## 19788               HR staff
## 19789               HR staff
## 19793               Laborers
## 19794             Accountants
## 19795          Medicine staff
## 19796             Core staff
## 19797          Medicine staff
## 19798               Laborers
## 19799          Cooking staff
## 19804             Sales staff
## 19820 High skill tech staff
## 19821             Sales staff
## 19822             Accountants
## 19823               Laborers
## 19829               HR staff
## 19830               Laborers
## 19831             Sales staff
## 19832             Core staff
## 19833             Core staff
## 19834             Accountants
## 19835             Sales staff
## 19836               Laborers
## 19843               HR staff
## 19845               HR staff
## 19846               HR staff
## 19847               HR staff
## 19851               HR staff
## 19852               HR staff
## 19853               HR staff
## 19854         Cleaning staff
## 19875         Cleaning staff
## 19876               HR staff
## 19877               HR staff
## 19878               HR staff
## 19879               HR staff
## 19880         Security staff
## 19881               HR staff
## 19882               HR staff
## 19883               HR staff
## 19884               HR staff
## 19893         Cleaning staff
```

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## 19895              HR staff
## 19896              HR staff
## 19897              HR staff
## 19898              HR staff
## 19911              HR staff
## 19918           Sales staff
## 19949        Medicine staff
## 19950           Accountants
## 19951 High skill tech staff
## 19952        Cleaning staff
## 19953        Cleaning staff
## 19954   Waiters/barmen staff
## 19955              HR staff
## 19956        Cleaning staff
## 19957              HR staff
## 19958              HR staff
## 19959              HR staff
## 19960        Cleaning staff
## 19961        Cleaning staff
## 19962   Waiters/barmen staff
## 19963              HR staff
## 19964              HR staff
## 19965   Waiters/barmen staff
## 19966        Cleaning staff
## 19967        Cleaning staff
## 19968   Waiters/barmen staff
## 19978               Drivers
## 19979              Laborers
## 19980 Private service staff
## 19981            Core staff
## 19982              HR staff
## 19983              HR staff
## 19984              HR staff
## 19985              HR staff
## 19986              HR staff
## 19990        Security staff
## 19991              HR staff
## 19992           Accountants
## 20004              HR staff
## 20005              HR staff
## 20098           Accountants
## 20099           Accountants
## 20100           Accountants
## 20101           Accountants
## 20102              Managers
## 20103              Managers
## 20106              HR staff
## 20107              HR staff
## 20108              HR staff
## 20109              HR staff
## 20110              HR staff
## 20154              Laborers
## 20155        Medicine staff
## 20156         Cooking staff
```

```
## 20157           Sales staff
## 20158           Sales staff
## 20159            Core staff
## 20160 Private service staff
## 20161             Laborers
## 20165             Managers
## 20166            Core staff
## 20167             Managers
## 20168            Core staff
## 20177             HR staff
## 20178             HR staff
## 20179             HR staff
## 20196           Sales staff
## 20197            Core staff
## 20198            Core staff
## 20199              Drivers
## 20200         Cooking staff
## 20201         Cooking staff
## 20202        Medicine staff
## 20203        Medicine staff
## 20232        Security staff
## 20233             HR staff
## 20234  Waiters/barmen staff
## 20235             HR staff
## 20236        Cleaning staff
## 20237        Cleaning staff
## 20240           Accountants
## 20241        Cleaning staff
## 20242           Sales staff
## 20243           Sales staff
## 20244            Core staff
## 20245    Low-skill Laborers
## 20246              Drivers
## 20247            Core staff
## 20248 High skill tech staff
## 20249           Secretaries
## 20270         Cooking staff
## 20271 High skill tech staff
## 20272            Core staff
## 20273            Core staff
## 20274             Managers
## 20275           Sales staff
## 20276           Sales staff
## 20277           Sales staff
## 20278             Laborers
## 20279             Laborers
## 20280             Laborers
## 20281            Core staff
## 20282             Laborers
## 20283            Core staff
## 20284           Sales staff
## 20289             HR staff
## 20290             HR staff
## 20291             HR staff
```

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## 20292                 HR staff
## 20326                 HR staff
## 20327                 HR staff
## 20328                 HR staff
## 20329                 HR staff
## 20330                 HR staff
## 20331                 HR staff
## 20332                 HR staff
## 20352                 HR staff
## 20353                 HR staff
## 20354                 HR staff
## 20355           Security staff
## 20356                 HR staff
## 20406           Medicine staff
## 20407           Cleaning staff
## 20408                 Laborers
## 20409               Core staff
## 20410           Cleaning staff
## 20411           Medicine staff
## 20412              Accountants
## 20413 High skill tech staff
## 20414              Sales staff
## 20415 High skill tech staff
## 20416                 Laborers
## 20417              Sales staff
## 20418            Cooking staff
## 20419               Core staff
## 20420            Cooking staff
## 20421           Cleaning staff
## 20453                 HR staff
## 20454                 HR staff
## 20455           Cleaning staff
## 20456              Sales staff
## 20457                  Drivers
## 20458              Sales staff
## 20471   Waiters/barmen staff
## 20472                 HR staff
## 20473                 HR staff
## 20474                 HR staff
## 20475                 HR staff
## 20476                 HR staff
## 20477                 HR staff
## 20478   Waiters/barmen staff
## 20479                 Managers
## 20480               Core staff
## 20481              Sales staff
## 20482            Cooking staff
## 20483                 Laborers
## 20484           Security staff
## 20485               Core staff
## 20486      Low-skill Laborers
## 20487               Core staff
## 20494               Core staff
## 20495                 Laborers
```

```
## 20496               Managers
## 20497          Security staff
## 20510                Drivers
## 20511            Accountants
## 20512         Cleaning staff
## 20513            Sales staff
## 20514               Laborers
## 20515         Cleaning staff
## 20516               Laborers
## 20517            Sales staff
## 20518         Medicine staff
## 20519               Laborers
## 20528               HR staff
## 20529               HR staff
## 20530            Secretaries
## 20531            Sales staff
## 20532               Managers
## 20533                Drivers
## 20534               Managers
## 20535                Drivers
## 20536         Medicine staff
## 20541               HR staff
## 20542  Waiters/barmen staff
## 20543               HR staff
## 20544               HR staff
## 20545  Waiters/barmen staff
## 20546               HR staff
## 20567             Core staff
## 20568         Medicine staff
## 20569            Sales staff
## 20570            Secretaries
## 20571          Security staff
## 20572          Cooking staff
## 20573               Laborers
## 20574               HR staff
## 20595               Laborers
## 20596               Laborers
## 20597               IT staff
## 20657               Laborers
## 20658 Private service staff
## 20735                Drivers
## 20736            Sales staff
## 20737            Sales staff
## 20738               Managers
## 20739            Sales staff
## 20743               HR staff
## 20744               HR staff
## 20755               HR staff
## 20756               HR staff
## 20757               HR staff
## 20758               HR staff
## 20766         Medicine staff
## 20767            Sales staff
## 20768         Medicine staff
```

```
## 20769            Sales staff
## 20770 High skill tech staff
## 20771         Medicine staff
## 20772              Laborers
## 20773            Core staff
## 20774           Sales staff
## 20779              HR staff
## 20780              HR staff
## 20781              HR staff
## 20806              Managers
## 20807              Laborers
## 20862              HR staff
## 20863              HR staff
## 20864              HR staff
## 20865  Waiters/barmen staff
## 20866        Cleaning staff
## 20867              HR staff
## 20868              HR staff
## 20869              HR staff
## 20870              HR staff
## 20871  Waiters/barmen staff
## 20872              HR staff
## 20873              HR staff
## 20874              HR staff
## 20875              HR staff
## 20876              HR staff
## 20877        Security staff
## 20878              HR staff
## 20879              HR staff
## 20880              HR staff
## 20881              HR staff
## 20882  Waiters/barmen staff
## 20883              HR staff
## 20884              HR staff
## 20892              HR staff
## 20893              HR staff
## 20894              HR staff
## 20895              HR staff
## 20898              HR staff
## 20899              HR staff
## 20900              HR staff
## 20901              HR staff
## 20902              HR staff
## 20903              HR staff
## 20904              HR staff
## 20905              HR staff
## 20906              HR staff
## 20907  Waiters/barmen staff
## 20908              HR staff
## 20909              HR staff
## 20910              HR staff
## 20915              HR staff
## 20916              HR staff
## 20917              HR staff
```

```
## 20918         Cleaning staff
## 20919              HR staff
## 20920              HR staff
## 20921              HR staff
## 20922              HR staff
## 20923              HR staff
## 20932              HR staff
## 20933              HR staff
## 20934              HR staff
## 20935         Cleaning staff
## 20936              HR staff
## 20937              HR staff
## 20938              HR staff
## 20939              HR staff
## 20940              HR staff
## 20941   Waiters/barmen staff
## 20942              HR staff
## 20943           Sales staff
## 20951        Medicine staff
## 20952            Core staff
## 20962              Laborers
## 20963              Laborers
## 20964               Drivers
## 20982              HR staff
## 20983              HR staff
## 20984              HR staff
## 20985        Security staff
## 20986        Cleaning staff
## 20987              HR staff
## 20988              HR staff
## 20989              HR staff
## 20990        Cleaning staff
## 20991              HR staff
## 20992              HR staff
## 20993              HR staff
## 20994              HR staff
## 20995   Waiters/barmen staff
## 20996              HR staff
## 20997        Cleaning staff
## 20998        Cleaning staff
## 20999              HR staff
## 21000        Cleaning staff
## 21001              HR staff
## 21002              Laborers
## 21003              Laborers
## 21004              Laborers
## 21005           Sales staff
## 21006           Sales staff
## 21028              HR staff
## 21029              HR staff
## 21057              HR staff
## 21064              HR staff
## 21066               Drivers
## 21068              Managers
```

```
## 21069            HR staff
## 21071            HR staff
## 21072            HR staff
## 21073            HR staff
## 21074            HR staff
## 21075            HR staff
## 21076            HR staff
## 21077            HR staff
## 21078            HR staff
## 21079            HR staff
## 21080            HR staff
## 21081            HR staff
## 21082            HR staff
## 21083      Cleaning staff
## 21084            HR staff
## 21085            HR staff
## 21093            HR staff
## 21097 High skill tech staff
## 21098            HR staff
## 21099          Core staff
## 21101            HR staff
## 21104            HR staff
## 21106  Waiters/barmen staff
## 21111 High skill tech staff
## 21129    Low-skill Laborers
## 21133      Cleaning staff
## 21138            Drivers
## 21166            HR staff
## 21168      Cleaning staff
## 21169            Laborers
## 21176            HR staff
## 21177            HR staff
## 21178  Waiters/barmen staff
## 21179      Cleaning staff
## 21180            HR staff
## 21181      Security staff
## 21184          Core staff
## 21185            HR staff
## 21190            Laborers
## 21191            Drivers
## 21192          Core staff
## 21193            Laborers
## 21194            Laborers
## 21195            Laborers
## 21196            Drivers
## 21197            Drivers
## 21198         Sales staff
## 21199         Accountants
## 21200         Sales staff
## 21201            Laborers
## 21202         Sales staff
## 21203            Drivers
## 21216      Security staff
## 21217      Cleaning staff
```

```
## 21218            HR staff
## 21219            HR staff
## 21223          Core staff
## 21229         Accountants
## 21230  Waiters/barmen staff
## 21231      Medicine staff
## 21237            HR staff
## 21238            Managers
## 21241            HR staff
## 21245            HR staff
## 21246            HR staff
## 21247            HR staff
## 21250         Accountants
## 21260         Sales staff
## 21264            Laborers
## 21265            HR staff
## 21272            HR staff
## 21280            HR staff
## 21282            Laborers
## 21283            Laborers
## 21284             Drivers
## 21288            HR staff
## 21292            HR staff
## 21293            HR staff
## 21294            Laborers
## 21298  Waiters/barmen staff
## 21301      Cleaning staff
## 21302      Medicine staff
## 21303            HR staff
## 21305            HR staff
## 21309            HR staff
## 21313            HR staff
## 21314            HR staff
## 21315       Cooking staff
## 21316            HR staff
## 21317            HR staff
## 21318 High skill tech staff
## 21320            HR staff
## 21321         Sales staff
## 21326         Sales staff
## 21327         Sales staff
## 21338            HR staff
## 21340      Cleaning staff
## 21341         Sales staff
## 21343         Sales staff
## 21345            HR staff
## 21347            HR staff
## 21357      Cleaning staff
## 21358            HR staff
## 21359            Managers
## 21360      Cleaning staff
## 21366            HR staff
## 21371            HR staff
## 21372            HR staff
```

```
## 21373  Waiters/barmen staff
## 21381         Security staff
## 21382 High skill tech staff
## 21383               Drivers
## 21384              HR staff
## 21386              HR staff
## 21387              Laborers
## 21395              Laborers
## 21396              HR staff
## 21399  Waiters/barmen staff
## 21407              HR staff
## 21411               Drivers
## 21420              HR staff
## 21429              Laborers
## 21436              HR staff
## 21437              HR staff
## 21438              HR staff
## 21439  Waiters/barmen staff
## 21441        Cleaning staff
## 21449              HR staff
## 21454              HR staff
## 21459              HR staff
## 21469              HR staff
## 21475            Core staff
## 21477           Sales staff
## 21481              Laborers
## 21482               Drivers
## 21484              HR staff
## 21488              HR staff
## 21490              HR staff
## 21508              HR staff
## 21509            Core staff
## 21512               Drivers
## 21516              HR staff
## 21517              HR staff
## 21521              HR staff
## 21522              IT staff
## 21523              HR staff
## 21525              HR staff
## 21530              HR staff
## 21533              HR staff
## 21536              HR staff
## 21538        Security staff
## 21540           Accountants
## 21542           Sales staff
## 21543              HR staff
## 21545  Waiters/barmen staff
## 21549              HR staff
## 21552              HR staff
## 21553              HR staff
## 21557        Cleaning staff
## 21558               Drivers
## 21569              HR staff
## 21572            Core staff
```

```
## 21573              HR staff
## 21575 High skill tech staff
## 21584              HR staff
## 21587             Laborers
## 21593          Sales staff
## 21594              HR staff
## 21595          Accountants
## 21596              HR staff
## 21597              HR staff
## 21604              HR staff
## 21610              HR staff
## 21611              HR staff
## 21617              HR staff
## 21623       Cleaning staff
## 21629          Sales staff
## 21634              HR staff
## 21636              HR staff
## 21637       Cleaning staff
## 21644              HR staff
## 21645       Cleaning staff
## 21646              HR staff
## 21650              HR staff
## 21653             Managers
## 21654              HR staff
## 21655              HR staff
## 21659             Laborers
## 21660       Medicine staff
## 21661          Sales staff
## 21662          Sales staff
## 21663             Laborers
## 21694              HR staff
## 21704              HR staff
## 21705              HR staff
## 21706              HR staff
## 21707              HR staff
## 21708  Waiters/barmen staff
## 21709       Cleaning staff
## 21715          Sales staff
## 21716               Drivers
## 21717           Core staff
## 21756             Laborers
## 21757          Accountants
## 21758 High skill tech staff
## 21759    Low-skill Laborers
## 21760           Core staff
## 21761              HR staff
## 21762              HR staff
## 21763              HR staff
## 21764              HR staff
## 21765              HR staff
## 21766              HR staff
## 21767              HR staff
## 21768              HR staff
## 21769              HR staff
```

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## 21770              HR staff
## 21771              HR staff
## 21772              HR staff
## 21773  Waiters/barmen staff
## 21774              HR staff
## 21775              HR staff
## 21776              HR staff
## 21791              HR staff
## 21792              HR staff
## 21793              HR staff
## 21797            Core staff
## 21798             Laborers
## 21799        Medicine staff
## 21800             Laborers
## 21801        Medicine staff
## 21802             Laborers
## 21803              Drivers
## 21804              Drivers
## 21805             Laborers
## 21806              Drivers
## 21807             Laborers
## 21808           Sales staff
## 21809            Core staff
## 21810 High skill tech staff
## 21824              HR staff
## 21825        Security staff
## 21826              HR staff
## 21827              HR staff
## 21856              HR staff
## 21857              HR staff
## 21858  Waiters/barmen staff
## 21859  Waiters/barmen staff
## 21860              HR staff
## 21861              HR staff
## 21862              HR staff
## 21863              HR staff
## 21864              HR staff
## 21865              HR staff
## 21866              HR staff
## 21905              HR staff
## 21906        Cleaning staff
## 21907              HR staff
## 21908              HR staff
## 21919        Security staff
## 21920              HR staff
## 21921              HR staff
## 21953              IT staff
## 21954           Accountants
## 21955           Sales staff
## 21976              HR staff
## 21977        Cleaning staff
## 21978              HR staff
## 21979        Cleaning staff
## 21980              HR staff
```

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## 21981               HR staff
## 21982               HR staff
## 21983               HR staff
## 21984         Cleaning staff
## 21985         Cleaning staff
## 21986               HR staff
## 21987         Cleaning staff
## 21988         Security staff
## 21989               HR staff
## 21990               HR staff
## 21991               HR staff
## 21992               HR staff
## 21997               HR staff
## 22003                Drivers
## 22004 High skill tech staff
## 22005               Laborers
## 22006               Laborers
## 22007             Core staff
## 22008               Laborers
## 22011             Core staff
## 22012            Secretaries
## 22013          Cooking staff
## 22014             Core staff
## 22015         Medicine staff
## 22016          Cooking staff
## 22017             Core staff
## 22018          Cooking staff
## 22019            Sales staff
## 22073               HR staff
## 22074               HR staff
## 22075         Cleaning staff
## 22076         Cleaning staff
## 22077               Laborers
## 22078               Managers
## 22079                Drivers
## 22080            Sales staff
## 22081            Sales staff
## 22082                Drivers
## 22083            Accountants
## 22084            Sales staff
## 22086               Laborers
## 22087          Cooking staff
## 22088               Laborers
## 22089               Laborers
## 22090             Core staff
## 22091               Laborers
## 22092             Core staff
## 22093               Managers
## 22094               HR staff
## 22095         Cleaning staff
## 22096               HR staff
## 22097               HR staff
## 22098               HR staff
## 22103               HR staff
```

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## 22104               HR staff
## 22110               HR staff
## 22111               HR staff
## 22112  Waiters/barmen staff
## 22113               HR staff
## 22126         Medicine staff
## 22127            Accountants
## 22144  Waiters/barmen staff
## 22145               HR staff
## 22153               HR staff
## 22154  Waiters/barmen staff
## 22155               HR staff
## 22156         Cleaning staff
## 22157         Security staff
## 22158               HR staff
## 22159         Security staff
## 22160               HR staff
## 22211            Sales staff
## 22212               Laborers
## 22213            Sales staff
## 22214               Laborers
## 22218             Core staff
## 22219               Managers
## 22220               Laborers
## 22221               Managers
## 22222            Sales staff
## 22223             Core staff
## 22224            Sales staff
## 22225               HR staff
## 22236               HR staff
## 22237         Cleaning staff
## 22238               HR staff
## 22239         Cleaning staff
## 22240               HR staff
## 22241         Cleaning staff
## 22242               HR staff
## 22243         Cleaning staff
## 22247               HR staff
## 22248               Managers
## 22249               Managers
## 22250 High skill tech staff
## 22251 Private service staff
## 22252             Core staff
## 22253               Managers
## 22254            Sales staff
## 22255               HR staff
## 22256               Managers
## 22257             Core staff
## 22298             Core staff
## 22343               HR staff
## 22344               HR staff
## 22345         Cleaning staff
## 22346               HR staff
## 22355               HR staff
```

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## 22356           HR staff
## 22357           HR staff
## 22366           HR staff
## 22367           HR staff
## 22368           HR staff
## 22369           HR staff
## 22376           HR staff
## 22377        Accountants
## 22378           Laborers
## 22406            Drivers
## 22407           Managers
## 22408        Sales staff
## 22423            Drivers
## 22424         Core staff
## 22425           Laborers
## 22426        Accountants
## 22427           Laborers
## 22430        Sales staff
## 22434           HR staff
## 22435           HR staff
## 22436           HR staff
## 22437         Core staff
## 22438        Accountants
## 22439           HR staff
## 22447      Cleaning staff
## 22452         Secretaries
## 22453            Drivers
## 22454      Security staff
## 22456        Sales staff
## 22457            Drivers
## 22458           HR staff
## 22459           HR staff
## 22460           HR staff
## 22461           HR staff
## 22462           HR staff
## 22481           HR staff
## 22482           HR staff
## 22506           HR staff
## 22507           HR staff
## 22508           HR staff
## 22509           HR staff
## 22510  Waiters/barmen staff
## 22511           HR staff
## 22512           HR staff
## 22513           HR staff
## 22542      Cleaning staff
## 22543        Sales staff
## 22544           Laborers
## 22545 High skill tech staff
## 22546       Cooking staff
## 22547           Laborers
## 22548           Laborers
## 22549        Sales staff
## 22550        Sales staff
```

```
## 22551            Secretaries
## 22552              Laborers
## 22553              HR staff
## 22554              HR staff
## 22555              HR staff
## 22562              HR staff
## 22563              HR staff
## 22564              HR staff
## 22565              HR staff
## 22566              HR staff
## 22576               Drivers
## 22577               Drivers
## 22578            Core staff
## 22579 Private service staff
## 22580 High skill tech staff
## 22581               Drivers
## 22595              HR staff
## 22596              HR staff
## 22598              HR staff
## 22599              HR staff
## 22600              HR staff
## 22601              HR staff
## 22602              HR staff
## 22603              HR staff
## 22604              HR staff
## 22605              HR staff
## 22606   Waiters/barmen staff
## 22622              Laborers
## 22623              Laborers
## 22624         Cleaning staff
## 22625 High skill tech staff
## 22626              HR staff
## 22627              HR staff
## 22628         Cleaning staff
## 22629              HR staff
## 22632              HR staff
## 22633              HR staff
## 22634              HR staff
## 22635              HR staff
## 22636              HR staff
## 22637              HR staff
## 22638              HR staff
## 22639              HR staff
## 22640              HR staff
## 22651              HR staff
## 22652         Security staff
## 22653         Security staff
## 22680               Drivers
## 22681              Laborers
## 22682              Laborers
## 22683               Drivers
## 22684               Drivers
## 22685              Laborers
## 22686               Drivers
```

147

```
## 22687              Laborers
## 22688               Drivers
## 22689           Sales staff
## 22690 High skill tech staff
## 22691         Cooking staff
## 22692              Laborers
## 22693           Sales staff
## 22694           Sales staff
## 22695           Sales staff
## 22696              HR staff
## 22724              HR staff
## 22725              HR staff
## 22726              HR staff
## 22727              HR staff
## 22728              HR staff
## 22729              HR staff
## 22730              HR staff
## 22731              HR staff
## 22732              HR staff
## 22733              HR staff
## 22734              HR staff
## 22735              HR staff
## 22736              HR staff
## 22737              HR staff
## 22738              HR staff
## 22739              HR staff
## 22740              HR staff
## 22755              Laborers
## 22756           Sales staff
## 22757           Sales staff
## 22758         Cooking staff
## 22759           Secretaries
## 22760  Waiters/barmen staff
## 22761        Cleaning staff
## 22762              HR staff
## 22784              HR staff
## 22785        Cleaning staff
## 22787              HR staff
## 22788              HR staff
## 22789              HR staff
## 22790              HR staff
## 22791        Security staff
## 22792              HR staff
## 22793              HR staff
## 22794        Cleaning staff
## 22795              HR staff
## 22803              HR staff
## 22804        Cleaning staff
## 22805              HR staff
## 22809              HR staff
## 22810              HR staff
## 22811              HR staff
## 22812              HR staff
## 22820               Drivers
```

```
## 22839           Core staff
## 22840       Cleaning staff
## 22841             HR staff
## 22842       Cleaning staff
## 22843             HR staff
## 22844             HR staff
## 22845             HR staff
## 22846             HR staff
## 22847             HR staff
## 22848             HR staff
## 22849             HR staff
## 22850             HR staff
## 22851             HR staff
## 22862             HR staff
## 22863             HR staff
## 22864             HR staff
## 22865             HR staff
## 22866       Security staff
## 22867             HR staff
## 22868       Cleaning staff
## 22882       Cleaning staff
## 22883 Waiters/barmen staff
## 22884             HR staff
## 22885       Cleaning staff
## 22886             HR staff
## 22887       Security staff
## 22888             HR staff
## 22912        Cooking staff
## 22922             Laborers
## 22923        Cooking staff
## 22943          Sales staff
## 22944          Accountants
## 22945             Laborers
## 22946           Core staff
## 22947             Laborers
## 22948          Sales staff
## 22949       Cleaning staff
## 22950             HR staff
## 22951 High skill tech staff
## 22969             HR staff
## 22970       Cleaning staff
## 22971 Waiters/barmen staff
## 22972 Waiters/barmen staff
## 22973             HR staff
## 22974             HR staff
## 22975             HR staff
## 22976       Cleaning staff
## 22977       Cleaning staff
## 22978             HR staff
## 22981             HR staff
## 22982             HR staff
## 22983             HR staff
## 22984             HR staff
## 22985       Cleaning staff
```

```
## 22986  Waiters/barmen staff
## 22987             HR staff
## 22988             HR staff
## 22989             HR staff
## 22990             HR staff
## 22991             HR staff
## 22992             HR staff
## 22993             HR staff
## 23014 Private service staff
## 23015       Cooking staff
## 23016            Laborers
## 23017         Sales staff
## 23018         Accountants
## 23019         Accountants
## 23020         Sales staff
## 23021            Laborers
## 23022         Sales staff
## 23023         Sales staff
## 23024         Sales staff
## 23025             HR staff
## 23026             HR staff
## 23041             HR staff
## 23042       Cleaning staff
## 23043       Cleaning staff
## 23044             HR staff
## 23045             HR staff
## 23046             HR staff
## 23047             HR staff
## 23048             HR staff
## 23049             HR staff
## 23050             HR staff
## 23051       Cleaning staff
## 23052             HR staff
## 23053             HR staff
## 23054             HR staff
## 23055             HR staff
## 23056             HR staff
## 23057             HR staff
## 23058             HR staff
## 23059             Drivers
## 23060            Laborers
## 23080            Laborers
## 23081 Private service staff
## 23082      Medicine staff
## 23083         Accountants
## 23096             HR staff
## 23097             HR staff
## 23098       Cleaning staff
## 23099             HR staff
## 23100             HR staff
## 23101             HR staff
## 23102             HR staff
## 23107         Accountants
## 23108            Managers
```

```
## 23109 High skill tech staff
## 23110              Managers
## 23111           Sales staff
## 23112           Accountants
## 23140              Laborers
## 23141            Core staff
## 23158              Managers
## 23159           Accountants
## 23160              Managers
## 23161            Core staff
## 23162           Accountants
## 23163            Core staff
## 23164           Accountants
## 23165              Laborers
## 23166              Laborers
## 23167            Core staff
## 23168              Laborers
## 23169           Accountants
## 23170 High skill tech staff
## 23171 High skill tech staff
## 23172         Medicine staff
## 23173            Core staff
## 23174           Accountants
## 23175            Core staff
## 23176         Security staff
## 23177 High skill tech staff
## 23211         Medicine staff
## 23212            Core staff
## 23213            Core staff
## 23214            Core staff
## 23215            Core staff
## 23216            Core staff
## 23241              HR staff
## 23242              HR staff
## 23243              HR staff
## 23244              HR staff
## 23245              HR staff
## 23250              HR staff
## 23251              HR staff
## 23252              HR staff
## 23253              HR staff
## 23254              HR staff
## 23255              HR staff
## 23256              HR staff
## 23257              HR staff
## 23258              HR staff
## 23267            Core staff
## 23268 High skill tech staff
## 23288  Waiters/barmen staff
## 23289           Sales staff
## 23299              Managers
## 23300              Managers
## 23301           Accountants
## 23302              HR staff
```

```
## 23303               Managers
## 23304               Managers
## 23352             Core staff
## 23353               Laborers
## 23354                Drivers
## 23355               Laborers
## 23356                Drivers
## 23364               HR staff
## 23365          Cleaning staff
## 23366               HR staff
## 23367               HR staff
## 23386                Drivers
## 23387               Laborers
## 23388               Laborers
## 23389          Security staff
## 23390          Security staff
## 23391               Laborers
## 23392             Sales staff
## 23393               Laborers
## 23394               Laborers
## 23395               Laborers
## 23400             Core staff
## 23426               HR staff
## 23427               HR staff
## 23428               HR staff
## 23429               HR staff
## 23430               HR staff
## 23431               HR staff
## 23432               HR staff
## 23433          Security staff
## 23444               HR staff
## 23445               HR staff
## 23446          Cleaning staff
## 23447               HR staff
## 23448          Cleaning staff
## 23449               HR staff
## 23450               HR staff
## 23451               HR staff
## 23452               HR staff
## 23453               HR staff
## 23454               HR staff
## 23455               HR staff
## 23456               HR staff
## 23476             Sales staff
## 23477      Low-skill Laborers
## 23478               HR staff
## 23479               HR staff
## 23480               HR staff
## 23481               HR staff
## 23491          Medicine staff
## 23492             Sales staff
## 23493             Core staff
## 23494             Sales staff
## 23495            Secretaries
```

```
## 23496            Core staff
## 23497             Laborers
## 23498             Managers
## 23499             Laborers
## 23552             HR staff
## 23553            Core staff
## 23554           Sales staff
## 23555           Sales staff
## 23556         Security staff
## 23557         Cleaning staff
## 23558           Sales staff
## 23572             HR staff
## 23573             HR staff
## 23574             HR staff
## 23575             HR staff
## 23576             HR staff
## 23577             HR staff
## 23578             HR staff
## 23579             HR staff
## 23580             HR staff
## 23581             HR staff
## 23582             HR staff
## 23583             HR staff
## 23584             HR staff
## 23585         Cleaning staff
## 23586             HR staff
## 23587             HR staff
## 23588             HR staff
## 23589             HR staff
## 23590             HR staff
## 23591             HR staff
## 23596            Core staff
## 23597            Core staff
## 23598           Sales staff
## 23599 High skill tech staff
## 23600             IT staff
## 23601            Core staff
## 23672           Sales staff
## 23673            Core staff
## 23674             HR staff
## 23675             HR staff
## 23676             HR staff
## 23677             HR staff
## 23707             HR staff
## 23708             HR staff
## 23709             HR staff
## 23747   Waiters/barmen staff
## 23748             HR staff
## 23749             HR staff
## 23750             HR staff
## 23751             HR staff
## 23752             HR staff
## 23753         Cleaning staff
## 23754             HR staff
```

```
## 23777              Managers
## 23778              Managers
## 23779              Managers
## 23780              Managers
## 23781              Managers
## 23782              HR staff
## 23783              HR staff
## 23784  Waiters/barmen staff
## 23785              HR staff
## 23786              HR staff
## 23804              HR staff
## 23814              HR staff
## 23815  Waiters/barmen staff
## 23816              HR staff
## 23817              HR staff
## 23818              HR staff
## 23819              HR staff
## 23820              HR staff
## 23828             Accountants
## 23829             Core staff
## 23830               Laborers
## 23831             Sales staff
## 23832 Private service staff
## 23833                Drivers
## 23834 High skill tech staff
## 23835             Core staff
## 23836              HR staff
## 23840              Managers
## 23841              Managers
## 23842             Accountants
## 23843             Accountants
## 23847          Cooking staff
## 23848               Laborers
## 23849         Cleaning staff
## 23850             Core staff
## 23851         Cleaning staff
## 23852          Cooking staff
## 23853         Cleaning staff
## 23854         Cleaning staff
## 23866              HR staff
## 23867              HR staff
## 23880              HR staff
## 23881              HR staff
## 23882              HR staff
## 23883              HR staff
## 23884  Waiters/barmen staff
## 23885              HR staff
## 23888              HR staff
## 23889              HR staff
## 23890              HR staff
## 23891              HR staff
## 23892              HR staff
## 23893              HR staff
## 23904         Medicine staff
```

```
## 23914                HR staff
## 23915                HR staff
## 23916                HR staff
## 23917                HR staff
## 23935                Managers
## 23936          Cleaning staff
## 23937                 Drivers
## 23938             Sales staff
## 23939             Sales staff
## 23940             Sales staff
## 23941              Core staff
## 23942                Laborers
## 23943                HR staff
## 23944                Laborers
## 23945                Managers
## 23948 High skill tech staff
## 23949             Sales staff
## 23950                Laborers
## 23951              Core staff
## 23952           Cooking staff
## 23955             Accountants
## 23956             Accountants
## 23957             Secretaries
## 23958                Managers
## 23959             Accountants
## 23960                Managers
## 23961      Low-skill Laborers
## 23962                HR staff
## 23963             Sales staff
## 23964                Managers
## 23965             Accountants
## 23966                Managers
## 23967           Realty agents
## 23968              Core staff
## 23984              Core staff
## 23985              Core staff
## 23986      Low-skill Laborers
## 23987             Sales staff
## 23988              Core staff
## 24006                HR staff
## 24033                HR staff
## 24034                HR staff
## 24035                HR staff
## 24036                HR staff
## 24037                HR staff
## 24038          Security staff
## 24039                HR staff
## 24040          Security staff
## 24041                HR staff
## 24042                HR staff
## 24043          Security staff
## 24044                HR staff
## 24070                Managers
## 24071             Accountants
```

```
## 24072              Managers
## 24073            Core staff
## 24074 High skill tech staff
## 24075           Secretaries
## 24076            Core staff
## 24077           Sales staff
## 24078            Core staff
## 24079               Drivers
## 24091        Medicine staff
## 24092              HR staff
## 24093              HR staff
## 24094              HR staff
## 24095              HR staff
## 24096              HR staff
## 24097              HR staff
## 24098              HR staff
## 24099              HR staff
## 24100              HR staff
## 24101              HR staff
## 24110              HR staff
## 24111              HR staff
## 24112              HR staff
## 24113              HR staff
## 24114              HR staff
## 24115              HR staff
## 24116              HR staff
## 24117              HR staff
## 24141              Managers
## 24142              Managers
## 24143           Accountants
## 24144 High skill tech staff
## 24145              Managers
## 24146         Cooking staff
## 24147            Core staff
## 24154            Core staff
## 24155            Core staff
## 24156              HR staff
## 24157   Waiters/barmen staff
## 24158              HR staff
## 24159              HR staff
## 24160              HR staff
## 24161              HR staff
## 24162              HR staff
## 24163              HR staff
## 24164              HR staff
## 24165              HR staff
## 24166        Security staff
## 24167              HR staff
## 24168        Cleaning staff
## 24169              HR staff
## 24170              HR staff
## 24171              HR staff
## 24172              HR staff
## 24173              HR staff
```

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## 24174             HR staff
## 24175       Cleaning staff
## 24176             HR staff
## 24185             HR staff
## 24186  Waiters/barmen staff
## 24187             HR staff
## 24188             HR staff
## 24189             HR staff
## 24190             HR staff
## 24207             HR staff
## 24208             HR staff
## 24209             HR staff
## 24210  Waiters/barmen staff
## 24211             HR staff
## 24212             HR staff
## 24213             HR staff
## 24214             HR staff
## 24215  Waiters/barmen staff
## 24216             HR staff
## 24217  Waiters/barmen staff
## 24218             HR staff
## 24219             HR staff
## 24247             HR staff
## 24248             Laborers
## 24249             Laborers
## 24251             Managers
## 24252              Drivers
## 24258  Waiters/barmen staff
## 24259             Laborers
## 24260             Laborers
## 24264              Drivers
## 24265          Sales staff
## 24271             HR staff
## 24280              Drivers
## 24286             Laborers
## 24295           Core staff
## 24297             HR staff
## 24300           Core staff
## 24308          Sales staff
## 24309          Sales staff
## 24310             HR staff
## 24312           Core staff
## 24313             Laborers
## 24315              Drivers
## 24319             Laborers
## 24322             HR staff
## 24323           Core staff
## 24355           Core staff
## 24357       Security staff
## 24358             HR staff
## 24359             HR staff
## 24361             HR staff
## 24363              Drivers
## 24364          Sales staff
```

```
## 24367          Medicine staff
## 24368              Core staff
## 24374                HR staff
## 24375                HR staff
## 24376                IT staff
## 24378                HR staff
## 24379     Low-skill Laborers
## 24380          Security staff
## 24381                HR staff
## 24382                 Drivers
## 24387                HR staff
## 24388                HR staff
## 24404                HR staff
## 24405          Cleaning staff
## 24408             Sales staff
## 24409                Laborers
## 24410                Managers
## 24440                HR staff
## 24459                 Drivers
## 24460             Accountants
## 24461                 Drivers
## 24462             Sales staff
## 24463 High skill tech staff
## 24464                Laborers
## 24465                 Drivers
## 24466              Core staff
## 24473                HR staff
## 24474    Waiters/barmen staff
## 24475          Cleaning staff
## 24476                HR staff
## 24477                HR staff
## 24478                HR staff
## 24479          Cleaning staff
## 24480                HR staff
## 24481                HR staff
## 24482          Cleaning staff
## 24483                HR staff
## 24486                HR staff
## 24488                HR staff
## 24489                HR staff
## 24490                HR staff
## 24515          Cleaning staff
## 24516                HR staff
## 24517                HR staff
## 24518                HR staff
## 24519                HR staff
## 24520                HR staff
## 24521                HR staff
## 24522              Core staff
## 24523             Sales staff
## 24524                Managers
## 24525                Managers
## 24526                Managers
## 24527                Managers
```

```
## 24528             Sales staff
## 24549           Medicine staff
## 24550 High skill tech staff
## 24551             Core staff
## 24552             Core staff
## 24553               HR staff
## 24554               HR staff
## 24555          Security staff
## 24556               HR staff
## 24572 High skill tech staff
## 24573          Security staff
## 24574 High skill tech staff
## 24575             Sales staff
## 24580               HR staff
## 24581               HR staff
## 24582               HR staff
## 24583               HR staff
## 24584               HR staff
## 24585               HR staff
## 24586               HR staff
## 24587               HR staff
## 24588               HR staff
## 24611               HR staff
## 24615               Laborers
## 24616               Laborers
## 24617               Laborers
## 24618                Drivers
## 24619             Core staff
## 24620               Managers
## 24621                Drivers
## 24622                Drivers
## 24623               Managers
## 24624                Drivers
## 24625            Accountants
## 24626   Waiters/barmen staff
## 24627             Core staff
## 24628          Cleaning staff
## 24629               Laborers
## 24630 Private service staff
## 24631             Core staff
## 24632             Sales staff
## 24684               HR staff
## 24685               HR staff
## 24724               Managers
## 24725               Managers
## 24735               HR staff
## 24736           Medicine staff
## 24737                Drivers
## 24742     Low-skill Laborers
## 24743             Sales staff
## 24744                Drivers
## 24745          Security staff
## 24746            Accountants
## 24747          Cleaning staff
```

```
## 24748            Accountants
## 24749                Drivers
## 24750            Sales staff
## 24751            Accountants
## 24752            Sales staff
## 24753                Drivers
## 24754             Core staff
## 24755         Medicine staff
## 24756               Laborers
## 24757         Medicine staff
## 24758               Managers
## 24759               Managers
## 24760 High skill tech staff
## 24761          Cleaning staff
## 24762                Drivers
## 24763                Drivers
## 24784            Sales staff
## 24785            Sales staff
## 24787         Security staff
## 24788         Cleaning staff
## 24790  Waiters/barmen staff
## 24791         Security staff
## 24792               HR staff
## 24793               HR staff
## 24794               Managers
## 24804               HR staff
## 24806               Laborers
## 24807               HR staff
## 24808 High skill tech staff
## 24809               HR staff
## 24829               HR staff
## 24830               HR staff
## 24831               HR staff
## 24832               HR staff
## 24833         Security staff
## 24834               HR staff
## 24835               HR staff
## 24836            Accountants
## 24837            Accountants
## 24838          Cooking staff
## 24839            Accountants
## 24842               HR staff
## 24844               Managers
## 24845                Drivers
## 24846                Drivers
## 24847                Drivers
## 24848               Managers
## 24849                Drivers
## 24850               Laborers
## 24851               Managers
## 24852                Drivers
## 24853               HR staff
## 24854         Medicine staff
## 24855            Sales staff
```

```
## 24856              Drivers
## 24857              Managers
## 24858              HR staff
## 24859              HR staff
## 24867           Secretaries
## 24870           Accountants
## 24871            Core staff
## 24876              HR staff
## 24923              HR staff
## 24924        Cleaning staff
## 24932              HR staff
## 24933              HR staff
## 24936              HR staff
## 24937  Waiters/barmen staff
## 24938              HR staff
## 24947        Security staff
## 24948            Core staff
## 24950              Drivers
## 24954              Laborers
## 24956        Security staff
## 24972              HR staff
## 24973              HR staff
## 24974              HR staff
## 24982              HR staff
## 24993           Sales staff
## 24994 Private service staff
## 24996  Waiters/barmen staff
## 25002              HR staff
## 25003              HR staff
## 25004              HR staff
## 25005              HR staff
## 25006              HR staff
## 25007              HR staff
## 25008              HR staff
## 25009              HR staff
## 25010              HR staff
## 25011              HR staff
## 25012              HR staff
## 25013              HR staff
## 25014              HR staff
## 25016              HR staff
## 25017              HR staff
## 25018            Core staff
## 25019              Laborers
## 25026              HR staff
## 25029        Cleaning staff
## 25030              HR staff
## 25031  Waiters/barmen staff
## 25032        Cleaning staff
## 25033        Security staff
## 25034              HR staff
## 25035              HR staff
## 25036              HR staff
## 25037              HR staff
```

```
## 25038         Cleaning staff
## 25039              HR staff
## 25040         Cleaning staff
## 25041              HR staff
## 25042              HR staff
## 25045         Security staff
## 25046              HR staff
## 25047              HR staff
## 25048              HR staff
## 25062         Cleaning staff
## 25063              HR staff
## 25064               Drivers
## 25065         Cleaning staff
## 25066         Security staff
## 25067              Laborers
## 25068    Low-skill Laborers
## 25076   Waiters/barmen staff
## 25078              Laborers
## 25079            Sales staff
## 25082            Sales staff
## 25086              HR staff
## 25087              HR staff
## 25088              HR staff
## 25089              HR staff
## 25090              HR staff
## 25091              HR staff
## 25092              Laborers
## 25093              HR staff
## 25094              HR staff
## 25100            Sales staff
## 25107              HR staff
## 25114              HR staff
## 25122         Cleaning staff
## 25148              HR staff
## 25149              HR staff
## 25150              HR staff
## 25151              HR staff
## 25152              HR staff
## 25153              HR staff
## 25154              HR staff
## 25155              HR staff
## 25156              HR staff
## 25157              HR staff
## 25158              HR staff
## 25159              HR staff
## 25160              HR staff
## 25161              HR staff
## 25186              HR staff
## 25187              HR staff
## 25189              HR staff
## 25192         Medicine staff
## 25199         Cleaning staff
## 25203            Sales staff
## 25213              HR staff
```

```
## 25214             HR staff
## 25217        Security staff
## 25224        Security staff
## 25225              Drivers
## 25227          Accountants
## 25228             HR staff
## 25235           Core staff
## 25236             Laborers
## 25239          Sales staff
## 25241             HR staff
## 25269          Secretaries
## 25270             HR staff
## 25271             HR staff
## 25272        Cleaning staff
## 25273             HR staff
## 25274             HR staff
## 25275             HR staff
## 25276             HR staff
## 25277        Cleaning staff
## 25294           Core staff
## 25295           Core staff
## 25296       Medicine staff
## 25297           Core staff
## 25298       Medicine staff
## 25299           Core staff
## 25300           Core staff
## 25301          Accountants
## 25302           Core staff
## 25312        Security staff
## 25313             HR staff
## 25314        Security staff
## 25315             HR staff
## 25316        Security staff
## 25317          Sales staff
## 25318             Laborers
## 25319  Waiters/barmen staff
## 25320          Sales staff
## 25343             Laborers
## 25344             Laborers
## 25345       Medicine staff
## 25346           Core staff
## 25349             Laborers
## 25350             Managers
## 25351             Managers
## 25352          Secretaries
## 25353             Managers
## 25354           Core staff
## 25355              Drivers
## 25356              Drivers
## 25357              Drivers
## 25358          Sales staff
## 25359             Managers
## 25360             HR staff
## 25361             HR staff
```

```
## 25362               HR staff
## 25363               HR staff
## 25364          Security staff
## 25365               HR staff
## 25366               HR staff
## 25407               HR staff
## 25408               HR staff
## 25409               HR staff
## 25415          Security staff
## 25416                Drivers
## 25417                Laborers
## 25418                Laborers
## 25419                Laborers
## 25420              Core staff
## 25421             Sales staff
## 25422                Laborers
## 25423     Low-skill Laborers
## 25427             Sales staff
## 25428             Sales staff
## 25429                Managers
## 25430                Managers
## 25431             Accountants
## 25432             Sales staff
## 25433             Accountants
## 25434              Core staff
## 25435             Accountants
## 25436                 Drivers
## 25437              Core staff
## 25485               HR staff
## 25503               HR staff
## 25504               HR staff
## 25525               HR staff
## 25543               HR staff
## 25546               HR staff
## 25547   Waiters/barmen staff
## 25548               HR staff
## 25576              Core staff
## 25577                 Drivers
## 25578 High skill tech staff
## 25579                 Drivers
## 25580 High skill tech staff
## 25581                Managers
## 25582                Laborers
## 25583                Managers
## 25596             Sales staff
## 25597                Laborers
## 25598                 Drivers
## 25604               HR staff
## 25616               HR staff
## 25617                 Drivers
## 25618             Sales staff
## 25619                 Drivers
## 25620                Laborers
## 25621          Security staff
```

```
## 25622              Core staff
## 25623                 Drivers
## 25624              Core staff
## 25625                 Drivers
## 25626                Laborers
## 25627                Managers
## 25628             Sales staff
## 25637          Cleaning staff
## 25641                Laborers
## 25642                 Drivers
## 25643             Sales staff
## 25644              Core staff
## 25645             Accountants
## 25646                Managers
## 25661                HR staff
## 25662          Security staff
## 25663                HR staff
## 25664                HR staff
## 25665                HR staff
## 25666          Security staff
## 25670          Security staff
## 25671          Cleaning staff
## 25672           Cooking staff
## 25683             Sales staff
## 25684           Cooking staff
## 25685             Accountants
## 25686 Private service staff
## 25687           Medicine staff
## 25688             Sales staff
## 25689                Managers
## 25690           Cooking staff
## 25691             Sales staff
## 25692                Managers
## 25693                Laborers
## 25694           Medicine staff
## 25695                Laborers
## 25696           Medicine staff
## 25697                Laborers
## 25698                Laborers
## 25699              Core staff
## 25700          Cleaning staff
## 25701                Laborers
## 25702           Cooking staff
## 25703           Cooking staff
## 25704           Medicine staff
## 25705             Accountants
## 25710                Laborers
## 25711                Laborers
## 25712          Security staff
## 25713                Laborers
## 25714                Laborers
## 25715                Laborers
## 25716                Laborers
## 25717                Laborers
```

```
## 25718          Medicine staff
## 25729           Cooking staff
## 25730              Core staff
## 25737          Cleaning staff
## 25738          Security staff
## 25739                HR staff
## 25740          Cleaning staff
## 25741                HR staff
## 25742                HR staff
## 25743                HR staff
## 25744                HR staff
## 25745                HR staff
## 25746     Waiters/barmen staff
## 25747                HR staff
## 25748                HR staff
## 25749                HR staff
## 25750                HR staff
## 25751                HR staff
## 25760                HR staff
## 25765              Core staff
## 25766             Sales staff
## 25767             Sales staff
## 25768             Sales staff
## 25769             Sales staff
## 25773             Accountants
## 25774             Sales staff
## 25775            Realty agents
## 25776 High skill tech staff
## 25777          Medicine staff
## 25778                Laborers
## 25779 High skill tech staff
## 25780          Medicine staff
## 25781                Laborers
## 25782 Private service staff
## 25783                Laborers
## 25784             Sales staff
## 25785              Core staff
## 25786                Laborers
## 25787                 Drivers
## 25788                Laborers
## 25789                Laborers
## 25790                 Drivers
## 25791                Laborers
## 25795                HR staff
## 25818          Security staff
## 25819          Security staff
## 25820          Cleaning staff
## 25821          Security staff
## 25871                HR staff
## 25872                HR staff
## 25876             Sales staff
## 25877                Laborers
## 25878           Cooking staff
## 25879             Secretaries
```

```
## 25880             Core staff
## 25881            Sales staff
## 25882               HR staff
## 25883         Security staff
## 25884         Cleaning staff
## 25885         Security staff
## 25886               HR staff
## 25890         Cleaning staff
## 25891               Laborers
## 25892         Medicine staff
## 25893 High skill tech staff
## 25894             Core staff
## 25895            Accountants
## 25896               Managers
## 25897 Private service staff
## 25898 High skill tech staff
## 25899            Accountants
## 25900 High skill tech staff
## 25901            Accountants
## 25902 High skill tech staff
## 25914  Waiters/barmen staff
## 25915               HR staff
## 25917               HR staff
## 25944               HR staff
## 25945               HR staff
## 25946  Waiters/barmen staff
## 26003            Sales staff
## 26004               Laborers
## 26005                Drivers
## 26006            Sales staff
## 26007            Accountants
## 26008         Cleaning staff
## 26011               HR staff
## 26012               HR staff
## 26013               HR staff
## 26014               HR staff
## 26015               HR staff
## 26016               HR staff
## 26017         Cleaning staff
## 26018  Waiters/barmen staff
## 26019               HR staff
## 26033               HR staff
## 26034               HR staff
## 26035               HR staff
## 26036               HR staff
## 26037               HR staff
## 26038               HR staff
## 26039               HR staff
## 26040               HR staff
## 26047          Cooking staff
## 26048            Sales staff
## 26051               Managers
## 26052               Laborers
## 26053               Laborers
```

```
## 26054              HR staff
## 26055               Drivers
## 26056               Drivers
## 26057              Laborers
## 26058              Managers
## 26059              Managers
## 26060              Managers
## 26061              Managers
## 26062            Core staff
## 26063              HR staff
## 26064         Realty agents
## 26094              HR staff
## 26095        Security staff
## 26162              HR staff
## 26178              HR staff
## 26179              HR staff
## 26180              HR staff
## 26181              HR staff
## 26182              HR staff
## 26183              HR staff
## 26239              HR staff
## 26245              Managers
## 26246            Core staff
## 26247              Laborers
## 26248              Laborers
## 26249         Medicine staff
## 26250              Managers
## 26251           Accountants
## 26252               Drivers
## 26253              Managers
## 26254              Laborers
## 26255               Drivers
## 26267              HR staff
## 26268              HR staff
## 26269  Waiters/barmen staff
## 26304               Drivers
## 26305               Drivers
## 26306              IT staff
## 26307              Laborers
## 26308            Core staff
## 26309              Laborers
## 26318         Medicine staff
## 26319 High skill tech staff
## 26320         Medicine staff
## 26336         Cleaning staff
## 26337              HR staff
## 26338              HR staff
## 26365              Managers
## 26376              HR staff
## 26391           Sales staff
## 26392               Drivers
## 26423               Drivers
## 26424            Core staff
## 26425 High skill tech staff
```

```
## 26426           Cooking staff
## 26427          Medicine staff
## 26428          Medicine staff
## 26429              Core staff
## 26430          Medicine staff
## 26431          Medicine staff
## 26459          Cleaning staff
## 26460                HR staff
## 26461                HR staff
## 26462                HR staff
## 26463                HR staff
## 26464                HR staff
## 26465                HR staff
## 26466                HR staff
## 26467                HR staff
## 26468                HR staff
## 26469                HR staff
## 26470                HR staff
## 26471          Cleaning staff
## 26472                HR staff
## 26481                HR staff
## 26482                HR staff
## 26483                HR staff
## 26484                HR staff
## 26485                HR staff
## 26489                HR staff
## 26516              Core staff
## 26517              Core staff
## 26518             Sales staff
## 26519             Sales staff
## 26520                HR staff
## 26521 High skill tech staff
## 26522                Managers
## 26523             Accountants
## 26524             Sales staff
## 26525             Accountants
## 26526             Accountants
## 26527                Managers
## 26528              Core staff
## 26529             Accountants
## 26530             Accountants
## 26531                HR staff
## 26532                HR staff
## 26533          Cleaning staff
## 26534                HR staff
## 26535                HR staff
## 26536                HR staff
## 26537                HR staff
## 26538                HR staff
## 26539                HR staff
## 26540          Security staff
## 26541  Waiters/barmen staff
## 26542                HR staff
## 26543             Sales staff
```

```
## 26553                HR staff
## 26554                HR staff
## 26555                HR staff
## 26556                HR staff
## 26566                HR staff
## 26567                HR staff
## 26568                HR staff
## 26569                HR staff
## 26570                HR staff
## 26577                HR staff
## 26580                HR staff
## 26583                HR staff
## 26585                HR staff
## 26598          Cleaning staff
## 26601                 Drivers
## 26602                HR staff
## 26603                Laborers
## 26604                IT staff
## 26605                HR staff
## 26607          Cleaning staff
## 26612             Sales staff
## 26614                HR staff
## 26627 High skill tech staff
## 26632                HR staff
## 26641              Core staff
## 26645                HR staff
## 26646                 Drivers
## 26648                HR staff
## 26649                HR staff
## 26650          Cleaning staff
## 26651                HR staff
## 26653          Cleaning staff
## 26655           Cooking staff
## 26660             Sales staff
## 26661                HR staff
## 26662             Accountants
## 26663                HR staff
## 26671                HR staff
## 26677              Core staff
## 26678                HR staff
## 26679                HR staff
## 26686                HR staff
## 26687                HR staff
## 26688                HR staff
## 26690             Accountants
## 26691             Sales staff
## 26697             Secretaries
## 26698 Private service staff
## 26701                HR staff
## 26702 High skill tech staff
## 26704          Cleaning staff
## 26707                HR staff
## 26709                HR staff
## 26716                Laborers
```

```
## 26717            Accountants
## 26718           Sales staff
## 26719              IT staff
## 26721            Accountants
## 26722           Sales staff
## 26724              HR staff
## 26725         Cooking staff
## 26726        Medicine staff
## 26731            Core staff
## 26739  Waiters/barmen staff
## 26743               Drivers
## 26744            Core staff
## 26745            Accountants
## 26746              Managers
## 26747           Sales staff
## 26753              HR staff
## 26759              HR staff
## 26760            Core staff
## 26767            Accountants
## 26768              IT staff
## 26773              HR staff
## 26774            Accountants
## 26778        Medicine staff
## 26781              Managers
## 26782              Managers
## 26783        Cleaning staff
## 26784            Accountants
## 26785           Sales staff
## 26789              HR staff
## 26792 High skill tech staff
## 26815              HR staff
## 26816        Security staff
## 26817              HR staff
## 26818              HR staff
## 26866              HR staff
## 26867              HR staff
## 26868              HR staff
## 26869              HR staff
## 26870              HR staff
## 26871              HR staff
## 26872        Cleaning staff
## 26873              HR staff
## 26874              HR staff
## 26875              HR staff
## 26876              HR staff
## 26877        Cleaning staff
## 26899              Managers
## 26900            Core staff
## 26901           Sales staff
## 26902 High skill tech staff
## 26903           Sales staff
## 26910              HR staff
## 26911              HR staff
## 26912              HR staff
```

```
## 26913                HR staff
## 26914                HR staff
## 26915  Waiters/barmen staff
## 26970                HR staff
## 26971                HR staff
## 26972                HR staff
## 26973                HR staff
## 26974                HR staff
## 26980             Sales staff
## 26981                HR staff
## 26982                HR staff
## 26983                HR staff
## 26984  Waiters/barmen staff
## 27049                HR staff
## 27050                HR staff
## 27064                HR staff
## 27065                HR staff
## 27066  Waiters/barmen staff
## 27067                HR staff
## 27068                HR staff
## 27081             Accountants
## 27110                HR staff
## 27111                HR staff
## 27112                HR staff
## 27113                HR staff
## 27114                HR staff
## 27115  Waiters/barmen staff
## 27125                HR staff
## 27126          Cleaning staff
## 27127                HR staff
## 27128                HR staff
## 27129                HR staff
## 27130          Security staff
## 27131                HR staff
## 27132          Cleaning staff
## 27133          Cleaning staff
## 27146                HR staff
## 27147                HR staff
## 27148          Security staff
## 27178                Laborers
## 27192             Accountants
## 27194              Core staff
## 27195                Laborers
## 27196                 Drivers
## 27197                HR staff
## 27198  Waiters/barmen staff
## 27199  Waiters/barmen staff
## 27200                HR staff
## 27201                HR staff
## 27229           Realty agents
## 27239                HR staff
## 27240          Security staff
## 27287             Accountants
## 27288             Accountants
```

```
## 27289             Sales staff
## 27290              Core staff
## 27291          Cleaning staff
## 27292          Cleaning staff
## 27293          Cleaning staff
## 27294                HR staff
## 27295                HR staff
## 27296                HR staff
## 27297          Cleaning staff
## 27298                Managers
## 27299             Sales staff
## 27300                Laborers
## 27301          Cleaning staff
## 27302             Accountants
## 27303                Laborers
## 27304                Laborers
## 27305                Laborers
## 27306           Cooking staff
## 27307          Security staff
## 27375              Core staff
## 27376             Sales staff
## 27377 High skill tech staff
## 27378                 Drivers
## 27379             Sales staff
## 27380             Accountants
## 27381              Core staff
## 27382                Managers
## 27383             Sales staff
## 27384          Security staff
## 27385 High skill tech staff
## 27386              Core staff
## 27387              Core staff
## 27388                Laborers
## 27389                Managers
## 27390             Accountants
## 27391              Core staff
## 27392             Sales staff
## 27393             Sales staff
## 27394 High skill tech staff
## 27395              Core staff
## 27396              Core staff
## 27397                Managers
## 27398                Laborers
## 27402                 Drivers
## 27403                 Drivers
## 27404                 Drivers
## 27405                Managers
## 27422 Private service staff
## 27423              Core staff
## 27424             Sales staff
## 27425             Secretaries
## 27426             Sales staff
## 27427             Secretaries
## 27428                Laborers
```

```
## 27429 High skill tech staff
## 27430            Core staff
## 27431 High skill tech staff
## 27439              HR staff
## 27448              HR staff
## 27449              HR staff
## 27450              HR staff
## 27451              HR staff
## 27452              HR staff
## 27453              HR staff
## 27454              HR staff
## 27461              HR staff
## 27462              HR staff
## 27463              HR staff
## 27464              HR staff
## 27465              HR staff
## 27466              HR staff
## 27467              HR staff
## 27475              Laborers
## 27476        Security staff
## 27477               Drivers
## 27478               Drivers
## 27479              Laborers
## 27480    Low-skill Laborers
## 27481           Accountants
## 27482            Core staff
## 27484            Core staff
## 27485            Core staff
## 27486               Drivers
## 27487              HR staff
## 27488              HR staff
## 27492              HR staff
## 27493              HR staff
## 27494              HR staff
## 27495              HR staff
## 27496              HR staff
## 27497              HR staff
## 27498              HR staff
## 27499              HR staff
## 27534           Sales staff
## 27535              Laborers
## 27536            Core staff
## 27537           Sales staff
## 27538              Laborers
## 27539               Drivers
## 27540              Laborers
## 27550              HR staff
## 27551              HR staff
## 27552              HR staff
## 27553        Cleaning staff
## 27556           Sales staff
## 27557           Sales staff
## 27558              Laborers
## 27559              Laborers
```

```
## 27560           Core staff
## 27561           Core staff
## 27562             HR staff
## 27563             HR staff
## 27564             HR staff
## 27565             HR staff
## 27566             HR staff
## 27567             HR staff
## 27568             HR staff
## 27569        Cleaning staff
## 27570           Core staff
## 27571           Core staff
## 27572 Private service staff
## 27573 High skill tech staff
## 27574             Laborers
## 27575             Laborers
## 27576             IT staff
## 27577               Drivers
## 27585           Core staff
## 27614             Laborers
## 27615             Laborers
## 27616 High skill tech staff
## 27617               Drivers
## 27618               Drivers
## 27619              Managers
## 27620              Managers
## 27621              Managers
## 27622             Laborers
## 27623           Core staff
## 27637               Drivers
## 27638               Drivers
## 27639              Managers
## 27650             HR staff
## 27651        Cleaning staff
## 27652             HR staff
## 27668 High skill tech staff
## 27669 High skill tech staff
## 27670           Core staff
## 27671               Drivers
## 27672 High skill tech staff
## 27673           Core staff
## 27674           Core staff
## 27680             HR staff
## 27681             HR staff
## 27682             HR staff
## 27683             HR staff
## 27684             HR staff
## 27688             HR staff
## 27689        Security staff
## 27690             HR staff
## 27691        Security staff
## 27692             HR staff
## 27693             HR staff
## 27694             HR staff
```

```
## 27695         Cleaning staff
## 27696  Waiters/barmen staff
## 27697         Cleaning staff
## 27698              HR staff
## 27699              HR staff
## 27700              HR staff
## 27731           Secretaries
## 27732            Core staff
## 27733        Security staff
## 27755 Private service staff
## 27764              HR staff
## 27772               Drivers
## 27773              Managers
## 27774              HR staff
## 27775              HR staff
## 27776              HR staff
## 27777         Cleaning staff
## 27778              HR staff
## 27779              HR staff
## 27780              HR staff
## 27781              HR staff
## 27782              HR staff
## 27783              HR staff
## 27784              HR staff
## 27813              HR staff
## 27814              HR staff
## 27815              HR staff
## 27820           Accountants
## 27823        Medicine staff
## 27824              Laborers
## 27825         Cleaning staff
## 27826               Drivers
## 27827           Sales staff
## 27828              Laborers
## 27843              Managers
## 27844              HR staff
## 27845              HR staff
## 27846              HR staff
## 27862         Cleaning staff
## 27863  Waiters/barmen staff
## 27864              HR staff
## 27865              HR staff
## 27866              HR staff
## 27867  Waiters/barmen staff
## 27868              HR staff
## 27869              HR staff
## 27870              HR staff
## 27871              HR staff
## 27872         Cleaning staff
## 27873              HR staff
## 27874              HR staff
## 27879              HR staff
## 27880              HR staff
## 27881              HR staff
```

```
## 27917             HR staff
## 27918             HR staff
## 27919             HR staff
## 27920             Laborers
## 27921          Sales staff
## 27922        Cooking staff
## 27923       Cleaning staff
## 27931 High skill tech staff
## 27932             Laborers
## 27933             Managers
## 27941             HR staff
## 27942             HR staff
## 27943             HR staff
## 27944             HR staff
## 27945             HR staff
## 27946             HR staff
## 27947             HR staff
## 27948             HR staff
## 27949             HR staff
## 27950             HR staff
## 27951             HR staff
## 27969          Accountants
## 27970 High skill tech staff
## 27979             HR staff
## 27980             HR staff
## 27981             HR staff
## 27982       Cleaning staff
## 27984 High skill tech staff
## 27985             Managers
## 27986             Managers
## 27987          Accountants
## 27988 High skill tech staff
## 27989              Drivers
## 27990 High skill tech staff
## 27991              Drivers
## 27997             HR staff
## 28009       Security staff
## 28010             HR staff
## 28011             HR staff
## 28020             HR staff
## 28028             HR staff
## 28029             HR staff
## 28030             HR staff
## 28031             HR staff
## 28032             HR staff
## 28033             HR staff
## 28034       Security staff
## 28035             HR staff
## 28067             HR staff
## 28068             HR staff
## 28069             HR staff
## 28070             HR staff
## 28071             HR staff
## 28075  Waiters/barmen staff
```

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## 28076         Security staff
## 28077              HR staff
## 28100              HR staff
## 28101              HR staff
## 28102         Cleaning staff
## 28125 Private service staff
## 28126              Drivers
## 28127  Waiters/barmen staff
## 28128            Core staff
## 28129             Laborers
## 28130  Waiters/barmen staff
## 28144              HR staff
## 28145              HR staff
## 28146              HR staff
## 28147              HR staff
## 28148              HR staff
## 28159        Cleaning staff
## 28160        Cleaning staff
## 28161        Cleaning staff
## 28162        Cleaning staff
## 28163        Cleaning staff
## 28179        Cleaning staff
## 28180        Security staff
## 28181              HR staff
## 28182              HR staff
## 28183              HR staff
## 28184        Cleaning staff
## 28188           Sales staff
## 28192              HR staff
## 28193        Cleaning staff
## 28194              HR staff
## 28195        Cleaning staff
## 28196              HR staff
## 28207            Core staff
## 28208           Secretaries
## 28209           Accountants
## 28219         Cooking staff
## 28220            Core staff
## 28238             Laborers
## 28239              Drivers
## 28253            Core staff
## 28254        Medicine staff
## 28255             Managers
## 28256        Cleaning staff
## 28257            Core staff
## 28258        Security staff
## 28259           Accountants
## 28260             Managers
## 28279             Managers
## 28280              Drivers
## 28281              Drivers
## 28295              HR staff
## 28296              HR staff
## 28297              HR staff
```

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## 28298              HR staff
## 28299              HR staff
## 28300              HR staff
## 28301              HR staff
## 28302        Cleaning staff
## 28303        Cleaning staff
## 28304              HR staff
## 28305              HR staff
## 28306              HR staff
## 28307              HR staff
## 28308              HR staff
## 28318  Waiters/barmen staff
## 28329           Sales staff
## 28330           Sales staff
## 28331        Medicine staff
## 28332           Accountants
## 28333           Sales staff
## 28334           Sales staff
## 28335 Private service staff
## 28336           Accountants
## 28337           Accountants
## 28338              Managers
## 28339              Managers
## 28340              Managers
## 28341              Managers
## 28342              HR staff
## 28343            Core staff
## 28344              HR staff
## 28345              HR staff
## 28346              HR staff
## 28347              HR staff
## 28348  Waiters/barmen staff
## 28349              HR staff
## 28350              HR staff
## 28356        Security staff
## 28372              HR staff
## 28373              HR staff
## 28374              HR staff
## 28378           Accountants
## 28379         Cooking staff
## 28380           Accountants
## 28401              Laborers
## 28402              Laborers
## 28403              Laborers
## 28406              HR staff
## 28407              HR staff
## 28408  Waiters/barmen staff
## 28409        Cleaning staff
## 28410              HR staff
## 28411        Cleaning staff
## 28412              HR staff
## 28413        Cleaning staff
## 28414              HR staff
## 28415              HR staff
```

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## 28416              HR staff
## 28417        Cleaning staff
## 28418              HR staff
## 28419              HR staff
## 28420              HR staff
## 28421        Security staff
## 28422  Waiters/barmen staff
## 28423              HR staff
## 28424              HR staff
## 28431              HR staff
## 28432              HR staff
## 28433              HR staff
## 28434        Cleaning staff
## 28435        Cleaning staff
## 28436              HR staff
## 28437        Medicine staff
## 28450              HR staff
## 28451              HR staff
## 28452              HR staff
## 28457  Waiters/barmen staff
## 28458        Security staff
## 28489              HR staff
## 28490              HR staff
## 28491              HR staff
## 28492              HR staff
## 28493              HR staff
## 28494  Waiters/barmen staff
## 28511              HR staff
## 28512              HR staff
## 28513              HR staff
## 28514  Waiters/barmen staff
## 28515  Waiters/barmen staff
## 28531              HR staff
## 28532  Waiters/barmen staff
## 28533              HR staff
## 28559            Core staff
## 28560              Laborers
## 28561        Cooking staff
## 28562            Core staff
## 28563              Laborers
## 28564            Secretaries
## 28565        Medicine staff
## 28566           Sales staff
## 28590           Sales staff
## 28591        Cleaning staff
## 28592              HR staff
## 28617              HR staff
## 28635              HR staff
## 28636        Security staff
## 28637              HR staff
## 28638              HR staff
## 28639              HR staff
## 28640  Waiters/barmen staff
## 28641  Waiters/barmen staff
```

```
## 28642                HR staff
## 28643                HR staff
## 28644                HR staff
## 28645                HR staff
## 28665                HR staff
## 28666                HR staff
## 28692                HR staff
## 28693  Waiters/barmen staff
## 28694                HR staff
## 28695             Sales staff
## 28696             Sales staff
## 28697             Sales staff
## 28698             Sales staff
## 28699             Sales staff
## 28700             Sales staff
## 28702                HR staff
## 28720          Cleaning staff
## 28721             Accountants
## 28722             Sales staff
## 28723 High skill tech staff
## 28724                Managers
## 28725                 Drivers
## 28726                 Drivers
## 28727                Laborers
## 28728                IT staff
## 28729                Laborers
## 28730                Laborers
## 28731                HR staff
## 28732                HR staff
## 28733                HR staff
## 28734                HR staff
## 28735                Laborers
## 28736                 Drivers
## 28737                 Drivers
## 28738                Laborers
## 28739                 Drivers
## 28745                Laborers
## 28746                Laborers
## 28755              Core staff
## 28756              Core staff
## 28757          Medicine staff
## 28758              Core staff
## 28759             Sales staff
## 28760 Private service staff
## 28761                HR staff
## 28762                HR staff
## 28763                HR staff
## 28764          Security staff
## 28765                HR staff
## 28766                HR staff
## 28767          Cleaning staff
## 28768          Medicine staff
## 28769                 Drivers
## 28805                HR staff
```

```
## 28806              HR staff
## 28820            Core staff
## 28821             Laborers
## 28822             Laborers
## 28826              HR staff
## 28827              HR staff
## 28828       Security staff
## 28829              HR staff
## 28830             Laborers
## 28831          Sales staff
## 28832       Cleaning staff
## 28833          Sales staff
## 28834       Cleaning staff
## 28835             Laborers
## 28836 Private service staff
## 28840          Sales staff
## 28841            Core staff
## 28842             Managers
## 28843 High skill tech staff
## 28844          Accountants
## 28845       Security staff
## 28846       Security staff
## 28847       Cleaning staff
## 28848       Cleaning staff
## 28849              HR staff
## 28851          Sales staff
## 28854             Laborers
## 28855             Laborers
## 28856       Security staff
## 28857             Laborers
## 28866              HR staff
## 28867              HR staff
## 28874             Managers
## 28875          Sales staff
## 28876               Drivers
## 28877             Laborers
## 28878             Laborers
## 28879             Laborers
## 28880             Laborers
## 28881             Laborers
## 28882            Core staff
## 28883            Core staff
## 28884             Laborers
## 28885             Laborers
## 28950              HR staff
## 28955 High skill tech staff
## 28956          Accountants
## 28957              HR staff
## 28958 High skill tech staff
## 28959               Drivers
## 28970             Laborers
## 28975          Sales staff
## 28985       Cleaning staff
## 28989              HR staff
```

```
## 28990          Security staff
## 28997             Core staff
## 28998             Core staff
## 28999                Drivers
## 29001               HR staff
## 29012            Sales staff
## 29013               Managers
## 29019            Accountants
## 29020               HR staff
## 29021          Cleaning staff
## 29023               HR staff
## 29031            Accountants
## 29032            Accountants
## 29034               Laborers
## 29039               HR staff
## 29044               HR staff
## 29047            Sales staff
## 29048          Cleaning staff
## 29052               HR staff
## 29056               Laborers
## 29058          Cleaning staff
## 29068               Managers
## 29085               Managers
## 29086               HR staff
## 29087    Waiters/barmen staff
## 29088               HR staff
## 29089               HR staff
## 29090               HR staff
## 29091               HR staff
## 29092               HR staff
## 29093   Private service staff
## 29094               Laborers
## 29095               Laborers
## 29096               Managers
## 29097               Managers
## 29098                Drivers
## 29101          Cleaning staff
## 29123               Laborers
## 29124               Laborers
## 29125   High skill tech staff
## 29127            Sales staff
## 29137               HR staff
## 29138               HR staff
## 29139               HR staff
## 29140               HR staff
## 29145               HR staff
## 29146          Security staff
## 29148   Private service staff
## 29149               Managers
## 29150          Cleaning staff
## 29151               HR staff
## 29152          Cleaning staff
## 29153               HR staff
## 29154               HR staff
```

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## 29155               HR staff
## 29156               HR staff
## 29166             Core staff
## 29167              Laborers
## 29168              Managers
## 29177               Drivers
## 29178             Core staff
## 29179              Laborers
## 29208               HR staff
## 29209               HR staff
## 29210  Waiters/barmen staff
## 29211               HR staff
## 29212               HR staff
## 29244              Laborers
## 29245            Sales staff
## 29246            Accountants
## 29247         Cleaning staff
## 29268             Core staff
## 29269             Core staff
## 29270         Medicine staff
## 29271            Sales staff
## 29272               HR staff
## 29273               HR staff
## 29274               HR staff
## 29275               HR staff
## 29299          Cooking staff
## 29300            Sales staff
## 29314     Low-skill Laborers
## 29315               HR staff
## 29327            Sales staff
## 29328            Sales staff
## 29329         Security staff
## 29387               HR staff
## 29398               HR staff
## 29399               HR staff
## 29402               HR staff
## 29425              Laborers
## 29426 Private service staff
## 29427            Sales staff
## 29428              Laborers
## 29429 High skill tech staff
## 29430               HR staff
## 29431               HR staff
## 29438               HR staff
## 29439               HR staff
## 29440               HR staff
## 29441               HR staff
## 29442               HR staff
## 29447         Cleaning staff
## 29448               HR staff
## 29449               HR staff
## 29450               HR staff
## 29451               HR staff
## 29458         Medicine staff
```

```
## 29459 High skill tech staff
## 29460            Core staff
## 29461            Core staff
## 29496              HR staff
## 29497              HR staff
## 29498              HR staff
## 29499              HR staff
## 29501              HR staff
## 29502              HR staff
## 29503        Security staff
## 29504              HR staff
## 29505              HR staff
## 29506              HR staff
## 29507        Security staff
## 29508              HR staff
## 29516              HR staff
## 29517              HR staff
## 29518              HR staff
## 29519              HR staff
## 29520              HR staff
## 29521        Cleaning staff
## 29522              HR staff
## 29523              HR staff
## 29524              HR staff
## 29525              HR staff
## 29526              HR staff
## 29532        Security staff
## 29543         Cooking staff
## 29544        Medicine staff
## 29545           Accountants
## 29546              HR staff
## 29548              HR staff
## 29549        Security staff
## 29550              HR staff
## 29551              HR staff
## 29552              HR staff
## 29553              HR staff
## 29559        Cleaning staff
## 29560           Sales staff
## 29564            Core staff
## 29565              Laborers
## 29566           Sales staff
## 29567           Sales staff
## 29568           Sales staff
## 29569              HR staff
## 29570              HR staff
## 29571              HR staff
## 29572              HR staff
## 29576              Managers
## 29577           Sales staff
## 29578           Secretaries
## 29579           Sales staff
## 29587              HR staff
## 29588              HR staff
```

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## 29589              HR staff
## 29590              HR staff
## 29595           Accountants
## 29596            Core staff
## 29597           Accountants
## 29598         Realty agents
## 29599 Private service staff
## 29602              HR staff
## 29608              HR staff
## 29610              HR staff
## 29611        Security staff
## 29612              HR staff
## 29613              HR staff
## 29614           Accountants
## 29615           Sales staff
## 29627            Core staff
## 29636           Accountants
## 29637              Managers
## 29638            Core staff
## 29639              Managers
## 29640            Core staff
## 29650              HR staff
## 29651              HR staff
## 29652              HR staff
## 29653              HR staff
## 29654              HR staff
## 29655              HR staff
## 29656   Waiters/barmen staff
## 29657              HR staff
## 29658              HR staff
## 29659               Drivers
## 29660              Laborers
## 29661              HR staff
## 29662              HR staff
## 29663              HR staff
## 29664              HR staff
## 29679              HR staff
## 29680              HR staff
## 29681              HR staff
## 29682              HR staff
## 29683              HR staff
## 29684              HR staff
## 29685              HR staff
## 29686              HR staff
## 29701              Managers
## 29702              Laborers
## 29703              Laborers
## 29704              Laborers
## 29705              Laborers
## 29717        Security staff
## 29718              HR staff
## 29722           Sales staff
## 29723              HR staff
## 29724              Managers
```

```
## 29725            Sales staff
## 29726              Managers
## 29727            Sales staff
## 29728              Managers
## 29729            Sales staff
## 29730 High skill tech staff
## 29731              Managers
## 29732           Accountants
## 29733              Managers
## 29757            Core staff
## 29758         Cooking staff
## 29759              Laborers
## 29760     Low-skill Laborers
## 29770            Core staff
## 29771              Managers
## 29772              Managers
## 29773     Low-skill Laborers
## 29787         Security staff
## 29788              HR staff
## 29789              HR staff
## 29790              HR staff
## 29819              Laborers
## 29820              Laborers
## 29821         Security staff
## 29844  Waiters/barmen staff
## 29845         Cleaning staff
## 29846              HR staff
## 29847         Cleaning staff
## 29848              HR staff
## 29849              HR staff
## 29880              HR staff
## 29881              HR staff
## 29882              HR staff
## 29883              HR staff
## 29884              HR staff
## 29885              HR staff
## 29890            Sales staff
## 29891              Laborers
## 29892            Core staff
## 29922            Core staff
## 29923            Core staff
## 29924            Sales staff
## 29925              Laborers
## 29926 High skill tech staff
## 29927           Accountants
## 29928 Private service staff
## 29935         Medicine staff
## 29936            Core staff
## 29941            Sales staff
## 29942            Sales staff
## 29943              Laborers
## 29944              Laborers
## 29981            Core staff
## 29982            Sales staff
```

```
## 29983             Core staff
## 29984            Accountants
## 29985            Accountants
## 29986               Managers
## 29987               Laborers
## 29988            Sales staff
## 29989               Laborers
## 29990            Sales staff
## 29991             Core staff
## 29992            Accountants
## 30020         Medicine staff
## 30029               Laborers
## 30030 Private service staff
## 30034         Security staff
## 30035               HR staff
## 30036               HR staff
## 30037               HR staff
## 30038               HR staff
## 30039               HR staff
## 30040               HR staff
## 30048         Cleaning staff
## 30049               HR staff
## 30050         Cleaning staff
## 30080             Core staff
## 30081         Cleaning staff
## 30082             Core staff
## 30083         Security staff
## 30084                Drivers
## 30085                Drivers
## 30086     Low-skill Laborers
## 30087               Laborers
## 30098             Core staff
## 30099             Core staff
## 30100               HR staff
## 30136               Managers
## 30137               Managers
## 30138         Medicine staff
## 30139               Managers
## 30140               Managers
## 30141               Managers
## 30146         Security staff
## 30147            Sales staff
## 30148            Sales staff
## 30149         Security staff
## 30150            Sales staff
## 30151             Core staff
## 30152         Cooking staff
## 30153            Sales staff
## 30154         Security staff
## 30177         Cleaning staff
## 30178               HR staff
## 30179               HR staff
## 30180               HR staff
## 30181               HR staff
```

```
## 30182  Waiters/barmen staff
## 30183            HR staff
## 30184            HR staff
## 30194      Security staff
## 30195            Managers
## 30196      Security staff
## 30197         Sales staff
## 30198              Drivers
## 30199              Drivers
## 30200 High skill tech staff
## 30201              Drivers
## 30217            HR staff
## 30218            HR staff
## 30219            HR staff
## 30220            HR staff
## 30221            HR staff
## 30222            HR staff
## 30234            HR staff
## 30235            HR staff
## 30236            HR staff
## 30237            HR staff
## 30238            HR staff
## 30239            HR staff
## 30240            HR staff
## 30241            HR staff
## 30242            HR staff
## 30258            Laborers
## 30259            Laborers
## 30260            Laborers
## 30261         Accountants
## 30262 Private service staff
## 30263 Private service staff
## 30264         Sales staff
## 30265  Waiters/barmen staff
## 30286            Managers
## 30287            Managers
## 30288            Managers
## 30289            Managers
## 30290            Managers
## 30291            Managers
## 30310            Managers
## 30311            Managers
## 30314      Cleaning staff
## 30315            HR staff
## 30316            HR staff
## 30318      Cleaning staff
## 30319            HR staff
## 30320            HR staff
## 30321            HR staff
## 30322            HR staff
## 30331            HR staff
## 30332      Cleaning staff
## 30333      Cleaning staff
## 30334            HR staff
```

```
## 30351         Cleaning staff
## 30352         Cleaning staff
## 30353         Cleaning staff
## 30381 High skill tech staff
## 30382            Core staff
## 30383              Managers
## 30384         Medicine staff
## 30385  Waiters/barmen staff
## 30386            Core staff
## 30387              Laborers
## 30388               Drivers
## 30389              Managers
## 30390            Core staff
## 30391               Drivers
## 30392 High skill tech staff
## 30393           Sales staff
## 30397  Waiters/barmen staff
## 30398         Cleaning staff
## 30399              HR staff
## 30400              HR staff
## 30401              HR staff
## 30402           Sales staff
## 30403           Sales staff
## 30404           Sales staff
## 30405           Sales staff
## 30436         Cleaning staff
## 30437           Sales staff
## 30438              Laborers
## 30439 High skill tech staff
## 30440 High skill tech staff
## 30441              Laborers
## 30442              Managers
## 30448              HR staff
## 30449              HR staff
## 30450              Laborers
## 30508            Core staff
## 30509 High skill tech staff
## 30510           Accountants
## 30511              Laborers
## 30519        Security staff
## 30520              Laborers
## 30521              Laborers
## 30522              HR staff
## 30523        Security staff
## 30536         Cooking staff
## 30537           Sales staff
## 30538           Sales staff
## 30539           Sales staff
## 30540         Cleaning staff
## 30541         Cleaning staff
## 30542              Laborers
## 30543            Core staff
## 30544           Secretaries
## 30545               Drivers
```

```
## 30546            Cleaning staff
## 30547               Sales staff
## 30548            Security staff
## 30549                   Drivers
## 30550               Sales staff
## 30551               Sales staff
## 30552            Medicine staff
## 30553            Cleaning staff
## 30554                Core staff
## 30582               Sales staff
## 30583                  Laborers
## 30603                   Drivers
## 30604                  Laborers
## 30605                   Drivers
## 30606                   Drivers
## 30607                  Laborers
## 30608 High skill tech staff
## 30609                  Laborers
## 30610                  Managers
## 30611                  Laborers
## 30630                  HR staff
## 30631                  HR staff
## 30632                  HR staff
## 30633                  HR staff
## 30634                  HR staff
## 30654                  Managers
## 30667               Sales staff
## 30700 High skill tech staff
## 30701                Core staff
## 30702            Cleaning staff
## 30758               Sales staff
## 30759                  Managers
## 30779            Cleaning staff
## 30780                  HR staff
## 30781                  HR staff
## 30782                  HR staff
## 30783                  HR staff
## 30784                  HR staff
## 30785                  HR staff
## 30786   Waiters/barmen staff
## 30788                  HR staff
## 30789            Cleaning staff
## 30790                  HR staff
## 30791                  HR staff
## 30792                  HR staff
## 30827            Cleaning staff
## 30828                  HR staff
## 30829                  HR staff
## 30838                  HR staff
## 30839                  HR staff
## 30851                  HR staff
## 30852                  HR staff
## 30853                  HR staff
## 30854            Security staff
```

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## 30873              HR staff
## 30874              HR staff
## 30880              HR staff
## 30881              HR staff
## 30882              HR staff
## 30883              HR staff
## 30915              HR staff
## 30916              HR staff
## 30966            Core staff
## 30967             Managers
## 30968            Core staff
## 30969           Sales staff
## 30973             Laborers
## 30974             Laborers
## 30975           Sales staff
## 30976              Drivers
## 30977           Sales staff
## 30978              Drivers
## 30979             Laborers
## 30980          Accountants
## 30981             Laborers
## 30982           Sales staff
## 30983        Security staff
## 30984              HR staff
## 30985        Security staff
## 31009              HR staff
## 31010              HR staff
## 31011              HR staff
## 31012              HR staff
## 31013              HR staff
## 31014              HR staff
## 31015              IT staff
## 31016              HR staff
## 31017              HR staff
## 31018              HR staff
## 31019        Cleaning staff
## 31023              HR staff
## 31024              HR staff
## 31025              HR staff
## 31026              HR staff
## 31027              HR staff
## 31031              HR staff
## 31032              HR staff
## 31033              HR staff
## 31034              HR staff
## 31035              HR staff
## 31036              HR staff
## 31037              HR staff
## 31040             Laborers
## 31055              HR staff
## 31065              HR staff
## 31066              HR staff
## 31067              HR staff
## 31069        Security staff
```

```
## 31070          Medicine staff
## 31071             Sales staff
## 31072                HR staff
## 31073                HR staff
## 31074                HR staff
## 31075                HR staff
## 31083                 Drivers
## 31132             Accountants
## 31133              Core staff
## 31134              Core staff
## 31135             Sales staff
## 31136                HR staff
## 31137                HR staff
## 31149             Sales staff
## 31150                Laborers
## 31159                HR staff
## 31160                HR staff
## 31161          Security staff
## 31162                HR staff
## 31163                HR staff
## 31164                HR staff
## 31165                HR staff
## 31170                HR staff
## 31171                HR staff
## 31172                HR staff
## 31173                HR staff
## 31174                HR staff
## 31175                HR staff
## 31177                HR staff
## 31178                HR staff
## 31179                HR staff
## 31180                HR staff
## 31181                HR staff
## 31182                HR staff
## 31183                HR staff
## 31184                HR staff
## 31186                Laborers
## 31187 Private service staff
## 31188             Sales staff
## 31189             Sales staff
## 31190             Sales staff
## 31191                Laborers
## 31192             Accountants
## 31193  Waiters/barmen staff
## 31194          Medicine staff
## 31195              Core staff
## 31196  Waiters/barmen staff
## 31197           Cooking staff
## 31198                Managers
## 31199              Core staff
## 31200             Sales staff
## 31201              Core staff
## 31217          Cleaning staff
## 31218                 Drivers
```

```
## 31219          Sales staff
## 31220       Cleaning staff
## 31221          Sales staff
## 31222          Sales staff
## 31223             Drivers
## 31224 High skill tech staff
## 31225            HR staff
## 31226            HR staff
## 31227            HR staff
## 31229            HR staff
## 31230            HR staff
## 31231            HR staff
## 31232            HR staff
## 31233            HR staff
## 31234  Waiters/barmen staff
## 31235            HR staff
## 31236            HR staff
## 31237            HR staff
## 31238            HR staff
## 31239  Waiters/barmen staff
## 31262            HR staff
## 31263            HR staff
## 31264            HR staff
## 31265       Cleaning staff
## 31267             Drivers
## 31268          Core staff
## 31269            Managers
## 31270             Drivers
## 31271             Drivers
## 31272            Managers
## 31294       Security staff
## 31295            HR staff
## 31296            HR staff
## 31297       Security staff
## 31298          Core staff
## 31299          Core staff
## 31300 High skill tech staff
## 31301             Drivers
## 31302          Sales staff
## 31303       Medicine staff
## 31304 Private service staff
## 31305          Core staff
## 31306       Medicine staff
## 31307            HR staff
## 31308            Managers
## 31309          Sales staff
## 31310            Managers
## 31311          Sales staff
## 31312            Managers
## 31330            HR staff
## 31331       Cleaning staff
## 31332            HR staff
## 31339          Accountants
## 31340          Sales staff
```

```
## 31341           Core staff
## 31342            Laborers
## 31351             IT staff
## 31363             HR staff
## 31364  Waiters/barmen staff
## 31365             HR staff
## 31378        Cleaning staff
## 31379             HR staff
## 31380        Cleaning staff
## 31381             HR staff
## 31382        Cleaning staff
## 31383        Cleaning staff
## 31384             HR staff
## 31385        Cleaning staff
## 31386             HR staff
## 31387             HR staff
## 31388        Cleaning staff
## 31389            Laborers
## 31390         Cooking staff
## 31394          Sales staff
## 31395          Accountants
## 31398             HR staff
## 31399             HR staff
## 31400             HR staff
## 31401             HR staff
## 31402             HR staff
## 31403  Waiters/barmen staff
## 31404        Security staff
## 31405             HR staff
## 31406              Drivers
## 31407          Accountants
## 31408          Sales staff
## 31409        Medicine staff
## 31421  Waiters/barmen staff
## 31422        Cleaning staff
## 31434             HR staff
## 31435             HR staff
## 31436            Laborers
## 31437          Accountants
## 31438          Sales staff
## 31439          Sales staff
## 31440 High skill tech staff
## 31441           Core staff
## 31442            Laborers
## 31443            Laborers
## 31444            Laborers
## 31445            Laborers
## 31446 High skill tech staff
## 31447         Cooking staff
## 31448           Core staff
## 31449            Laborers
## 31450 High skill tech staff
## 31451           Core staff
## 31452            Laborers
```

```
## 31453               Managers
## 31454             Core staff
## 31455            Sales staff
## 31465               HR staff
## 31466         Cleaning staff
## 31467          Cooking staff
## 31468            Sales staff
## 31469               Laborers
## 31470            Sales staff
## 31471             Core staff
## 31472             Core staff
## 31473            Sales staff
## 31474             Secretaries
## 31475             Core staff
## 31476            Sales staff
## 31482         Security staff
## 31483               Laborers
## 31484                Drivers
## 31485               Laborers
## 31507     Low-skill Laborers
## 31508               Laborers
## 31523   Waiters/barmen staff
## 31524         Cleaning staff
## 31549               HR staff
## 31550               HR staff
## 31551               HR staff
## 31552               HR staff
## 31553               HR staff
## 31559               HR staff
## 31560               HR staff
## 31571               HR staff
## 31572               HR staff
## 31573               HR staff
## 31574               HR staff
## 31575               HR staff
## 31626               HR staff
## 31627               HR staff
## 31642            Sales staff
## 31643             Core staff
## 31644            Sales staff
## 31645            Sales staff
## 31646            Sales staff
## 31647               Laborers
## 31648            Sales staff
## 31649            Sales staff
## 31650             Core staff
## 31651 Private service staff
## 31652               Laborers
## 31653               Laborers
## 31704               HR staff
## 31705             Core staff
## 31706            Accountants
## 31707             Core staff
## 31709               HR staff
```

```
## 31710              HR staff
## 31711        Cleaning staff
## 31712        Security staff
## 31713        Cleaning staff
## 31714              HR staff
## 31740              HR staff
## 31741           Sales staff
## 31742           Sales staff
## 31743        Security staff
## 31744           Sales staff
## 31745           Sales staff
## 31746              Laborers
## 31747           Sales staff
## 31748 High skill tech staff
## 31749              HR staff
## 31750              HR staff
## 31751              HR staff
## 31752              HR staff
## 31753              HR staff
## 31754  Waiters/barmen staff
## 31755              HR staff
## 31756              HR staff
## 31757              Laborers
## 31758 Private service staff
## 31759           Sales staff
## 31760         Cooking staff
## 31761         Cooking staff
## 31771        Cleaning staff
## 31775           Accountants
## 31776              Laborers
## 31787              Laborers
## 31788               Drivers
## 31790              HR staff
## 31791              HR staff
## 31792              HR staff
## 31793  Waiters/barmen staff
## 31802              HR staff
## 31803              HR staff
## 31842           Accountants
## 31843           Secretaries
## 31844              Managers
## 31845 High skill tech staff
## 31846              Laborers
## 31847              Managers
## 31848        Cleaning staff
## 31849              HR staff
## 31872              HR staff
## 31884           Sales staff
## 31913 Private service staff
## 31914           Sales staff
## 31915              Laborers
## 31916        Security staff
## 31917           Sales staff
## 31918           Sales staff
```

```
## 31919            Cleaning staff
## 31920               Managers
## 31938                HR staff
## 31939                HR staff
## 31940                HR staff
## 31941                HR staff
## 31942    Waiters/barmen staff
## 31965                HR staff
## 31966    Waiters/barmen staff
## 31967                HR staff
## 31968                HR staff
## 31974                HR staff
## 31975                HR staff
## 31976                HR staff
## 32005            Cleaning staff
## 32006    Waiters/barmen staff
## 32007    Waiters/barmen staff
## 32008                HR staff
## 32009    Waiters/barmen staff
## 32010              Core staff
## 32035               Managers
## 32036               Laborers
## 32037 High skill tech staff
## 32038               Managers
## 32039              Core staff
## 32040              Core staff
## 32041               Managers
## 32042               Managers
## 32043                 Drivers
## 32044               Laborers
## 32096                HR staff
## 32097                HR staff
## 32098                HR staff
## 32099                HR staff
## 32100                HR staff
## 32101            Cleaning staff
## 32102            Cleaning staff
## 32103                HR staff
## 32104                HR staff
## 32105                HR staff
## 32117               Laborers
## 32124            Cooking staff
## 32125              Sales staff
## 32126            Medicine staff
## 32127              Core staff
## 32128              Sales staff
## 32129              Sales staff
## 32130 High skill tech staff
## 32142                HR staff
## 32143                HR staff
## 32160                HR staff
## 32161                HR staff
## 32168                HR staff
## 32169                HR staff
```

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## 32170                 HR staff
## 32171                 HR staff
## 32172                 HR staff
## 32173                 HR staff
## 32174                 HR staff
## 32175                 HR staff
## 32176                 HR staff
## 32178           Cleaning staff
## 32179                 HR staff
## 32180                 HR staff
## 32181                 HR staff
## 32194                 HR staff
## 32195                 HR staff
## 32196                 HR staff
## 32202                 HR staff
## 32203    Waiters/barmen staff
## 32204           Cleaning staff
## 32205                 HR staff
## 32206                 HR staff
## 32207                 HR staff
## 32208                 HR staff
## 32209              Sales staff
## 32218                 HR staff
## 32219                 HR staff
## 32220                 HR staff
## 32221                 HR staff
## 32230           Cleaning staff
## 32231                 HR staff
## 32232                 HR staff
## 32233           Security staff
## 32234                 HR staff
## 32235                 HR staff
## 32236                 HR staff
## 32237                 HR staff
## 32238                 HR staff
## 32239                 HR staff
## 32240                 HR staff
## 32245                 HR staff
## 32246                 HR staff
## 32263                 HR staff
## 32264                 HR staff
## 32265    Waiters/barmen staff
## 32266                 HR staff
## 32267                 HR staff
## 32268                 HR staff
## 32269                 HR staff
## 32270                 HR staff
## 32271                 HR staff
## 32272                 HR staff
## 32273                 HR staff
## 32274                 HR staff
## 32280                 Laborers
## 32297                 HR staff
## 32298                 HR staff
```

```
## 32299              HR staff
## 32306           Sales staff
## 32307             Laborers
## 32308        Medicine staff
## 32309          Accountants
## 32310              Drivers
## 32311         Cooking staff
## 32312           Sales staff
## 32313             Managers
## 32314              Drivers
## 32315           Sales staff
## 32316             Managers
## 32322              HR staff
## 32359              HR staff
## 32360              HR staff
## 32361              HR staff
## 32375             Laborers
## 32380            Core staff
## 32381              HR staff
## 32382              HR staff
## 32383              HR staff
## 32384              HR staff
## 32385              HR staff
## 32386              HR staff
## 32387              HR staff
## 32388              HR staff
## 32389   Waiters/barmen staff
## 32390              HR staff
## 32391              HR staff
## 32392              HR staff
## 32393              HR staff
## 32394              HR staff
## 32395              HR staff
## 32396              HR staff
## 32397           Sales staff
## 32423            Core staff
## 32424            Core staff
## 32425              HR staff
## 32426              Drivers
## 32427            Core staff
## 32428          Accountants
## 32429         Cooking staff
## 32430            Core staff
## 32431              Drivers
## 32432          Secretaries
## 32438              HR staff
## 32439        Cleaning staff
## 32440              HR staff
## 32441             Managers
## 32442          Accountants
## 32443             Managers
## 32444            Core staff
## 32445            Core staff
## 32446             Managers
```

```
## 32449               HR staff
## 32450               HR staff
## 32451               HR staff
## 32452               HR staff
## 32453               HR staff
## 32454         Security staff
## 32465               Drivers
## 32466            Core staff
## 32467               Drivers
## 32468              Laborers
## 32469               Drivers
## 32470              Managers
## 32471           Accountants
## 32472               Drivers
## 32473              Managers
## 32474               HR staff
## 32475               HR staff
## 32476               HR staff
## 32477 High skill tech staff
## 32478           Sales staff
## 32479           Accountants
## 32480        Medicine staff
## 32481         Cooking staff
## 32482              Laborers
## 32483            Core staff
## 32484            Core staff
## 32485               Drivers
## 32486           Sales staff
## 32487              Laborers
## 32488            Core staff
## 32489           Sales staff
## 32490               HR staff
## 32499           Sales staff
## 32502           Accountants
## 32503           Sales staff
## 32504           Sales staff
## 32505           Sales staff
## 32506         Cooking staff
## 32507           Accountants
## 32508           Sales staff
## 32509        Cleaning staff
## 32510              Laborers
## 32511            Core staff
## 32512              Laborers
## 32513 High skill tech staff
## 32514         Security staff
## 32515              Laborers
## 32516 Private service staff
## 32517               Drivers
## 32518         Security staff
## 32519               Drivers
## 32520               Drivers
## 32535              Managers
## 32568               Drivers
```

```
## 32569              Core staff
## 32576                Drivers
## 32611               Laborers
## 32612               HR staff
## 32613               HR staff
## 32614               HR staff
## 32615               HR staff
## 32616               HR staff
## 32626          Security staff
## 32649               HR staff
## 32650               HR staff
## 32651          Security staff
## 32652          Cleaning staff
## 32653               HR staff
## 32654               HR staff
## 32679               HR staff
## 32680               HR staff
## 32681               HR staff
## 32682               HR staff
## 32683               HR staff
## 32684               HR staff
## 32690               Laborers
## 32691 High skill tech staff
## 32692               Laborers
## 32693               Laborers
## 32694                Drivers
## 32695               Laborers
## 32696               Laborers
## 32697             Sales staff
## 32713               HR staff
## 32714   Waiters/barmen staff
## 32715               HR staff
## 32752                Drivers
## 32762              Core staff
## 32763             Sales staff
## 32793               HR staff
## 32794               HR staff
## 32795               Laborers
## 32796             Sales staff
## 32797               Laborers
## 32798          Medicine staff
## 32799            Accountants
## 32802          Cleaning staff
## 32803               HR staff
## 32804               HR staff
## 32805             Sales staff
## 32806          Cooking staff
## 32807             Sales staff
## 32808               Laborers
## 32817          Security staff
## 32818               HR staff
## 32819               HR staff
## 32821             Sales staff
## 32822               HR staff
```

```
## 32823              HR staff
## 32841              HR staff
## 32842              HR staff
## 32843   Waiters/barmen staff
## 32844              HR staff
## 32845 High skill tech staff
## 32846              Laborers
## 32847 High skill tech staff
## 32848              Laborers
## 32849              Laborers
## 32850              Laborers
## 32851         Realty agents
## 32852 Private service staff
## 32853              Laborers
## 32854               Drivers
## 32855              HR staff
## 32856              HR staff
## 32857        Cleaning staff
## 32865            Core staff
## 32866            Core staff
## 32867 High skill tech staff
## 32868            Core staff
## 32870              HR staff
## 32871              HR staff
## 32872              HR staff
## 32873              HR staff
## 32874              HR staff
## 32875              HR staff
## 32886              HR staff
## 32887              HR staff
## 32888              HR staff
## 32889           Sales staff
## 32890              Managers
## 32891              Laborers
## 32896            Core staff
## 32897            Core staff
## 32898        Security staff
## 32899           Sales staff
## 32909              HR staff
## 32910              HR staff
## 32911              HR staff
## 32912              HR staff
## 32913              HR staff
## 32930 High skill tech staff
## 32931               Drivers
## 32932              Laborers
## 32933           Accountants
## 32934              Laborers
## 32935               Drivers
## 32938              HR staff
## 32961            Core staff
## 32962            Core staff
## 32963           Accountants
## 32964 High skill tech staff
```

```
## 32965            Medicine staff
## 32966              Managers
## 32977              Laborers
## 32978              Laborers
## 32979               Drivers
## 32980               Drivers
## 32981              Laborers
## 32984               Drivers
## 32997              HR staff
## 32998         Cleaning staff
## 33000            Accountants
## 33001              Managers
## 33002            Accountants
## 33003            Sales staff
## 33004            Accountants
## 33039              HR staff
## 33040            Sales staff
## 33041  Waiters/barmen staff
## 33042             Core staff
## 33049              HR staff
## 33057             Core staff
## 33058             Core staff
## 33059        Medicine staff
## 33060             Core staff
## 33061             Core staff
## 33077              Laborers
## 33078         Security staff
## 33083              HR staff
## 33084              HR staff
## 33085              IT staff
## 33086         Cleaning staff
## 33123             Core staff
## 33124              Managers
## 33139            Accountants
## 33158  Waiters/barmen staff
## 33159              HR staff
## 33160              HR staff
## 33161              HR staff
## 33162              HR staff
## 33163         Cleaning staff
## 33164              HR staff
## 33165              HR staff
## 33166              HR staff
## 33167              HR staff
## 33168  Waiters/barmen staff
## 33179              HR staff
## 33180              HR staff
## 33185             Core staff
## 33186         Cleaning staff
## 33187            Sales staff
## 33188         Security staff
## 33189            Sales staff
## 33190               Drivers
## 33191              Laborers
```

```
## 33192           Security staff
## 33193           Cleaning staff
## 33194                 Laborers
## 33195            Cooking staff
## 33196                 Laborers
## 33197              Sales staff
## 33198              Sales staff
## 33199                 Managers
## 33200            Cooking staff
## 33201 High skill tech staff
## 33202                 Laborers
## 33203                 HR staff
## 33204           Cleaning staff
## 33205                 HR staff
## 33206           Cleaning staff
## 33207                 HR staff
## 33263                 HR staff
## 33264                 HR staff
## 33288                 Laborers
## 33289                   Drivers
## 33290              Accountants
## 33291           Cleaning staff
## 33292           Security staff
## 33293              Sales staff
## 33297                 HR staff
## 33298                 HR staff
## 33299                 HR staff
## 33300                 HR staff
## 33301                 HR staff
## 33302                 HR staff
## 33303                 HR staff
## 33304                 HR staff
## 33305                 HR staff
## 33306                 HR staff
## 33307                 HR staff
## 33308                 HR staff
## 33309                 Laborers
## 33310                   Drivers
## 33340                 HR staff
## 33343               Core staff
## 33344                   Drivers
## 33345  Waiters/barmen staff
## 33346              Accountants
## 33347            Cooking staff
## 33380                 Laborers
## 33381                 HR staff
## 33386           Cleaning staff
## 33387           Cleaning staff
## 33391               Core staff
## 33392                 Laborers
## 33393                 Laborers
## 33396                 Laborers
## 33397           Security staff
## 33401               Core staff
```

```
## 33405              Laborers
## 33406              Laborers
## 33407               Drivers
## 33433        Cleaning staff
## 33434              HR staff
## 33435              HR staff
## 33436              HR staff
## 33437        Cleaning staff
## 33438               Drivers
## 33452               Drivers
## 33453 High skill tech staff
## 33454              Managers
## 33457            Core staff
## 33458           Secretaries
## 33459              Laborers
## 33460              Managers
## 33461              HR staff
## 33462              HR staff
## 33463  Waiters/barmen staff
## 33464              HR staff
## 33465              HR staff
## 33493           Sales staff
## 33494              Laborers
## 33495         Cooking staff
## 33496         Cooking staff
## 33497           Sales staff
## 33499 High skill tech staff
## 33500              Managers
## 33501              Managers
## 33502               Drivers
## 33503               Drivers
## 33504               Drivers
## 33515              HR staff
## 33516  Waiters/barmen staff
## 33517              HR staff
## 33518              HR staff
## 33519              HR staff
## 33520              HR staff
## 33521        Cleaning staff
## 33522              HR staff
## 33523              HR staff
## 33536              HR staff
## 33537              HR staff
## 33538        Cleaning staff
## 33539              HR staff
## 33540              HR staff
## 33549              Managers
## 33550  Waiters/barmen staff
## 33551               Drivers
## 33552               Drivers
## 33553        Security staff
## 33610              HR staff
## 33611              HR staff
## 33657        Security staff
```

```
## 33658              Managers
## 33659              Laborers
## 33660           Sales staff
## 33661        Security staff
## 33662           Sales staff
## 33663         Cooking staff
## 33664           Sales staff
## 33665         Cooking staff
## 33666              Laborers
## 33667            Core staff
## 33668         Cooking staff
## 33669           Sales staff
## 33670         Cooking staff
## 33676              HR staff
## 33677              HR staff
## 33678              HR staff
## 33679              HR staff
## 33680              HR staff
## 33681              HR staff
## 33682              HR staff
## 33683              HR staff
## 33684              HR staff
## 33685              HR staff
## 33686              HR staff
## 33689              HR staff
## 33690              HR staff
## 33691              HR staff
## 33708              HR staff
## 33709              HR staff
## 33710              HR staff
## 33711              HR staff
## 33712  Waiters/barmen staff
## 33713              HR staff
## 33714              HR staff
## 33735              HR staff
## 33736        Cleaning staff
## 33737              HR staff
## 33738  Waiters/barmen staff
## 33739              HR staff
## 33740              HR staff
## 33741              HR staff
## 33742              HR staff
## 33743              HR staff
## 33744              HR staff
## 33745              HR staff
## 33746              HR staff
## 33747              HR staff
## 33748              HR staff
## 33749              HR staff
## 33750              HR staff
## 33751              HR staff
## 33752              HR staff
## 33753              HR staff
## 33754              HR staff
```

```
## 33755                HR staff
## 33759          Security staff
## 33760                HR staff
## 33793                HR staff
## 33794                HR staff
## 33795                HR staff
## 33796                HR staff
## 33797                HR staff
## 33798                HR staff
## 33799                HR staff
## 33800                HR staff
## 33801          Security staff
## 33802                HR staff
## 33868              Core staff
## 33869               Laborers
## 33870          Medicine staff
## 33871               Laborers
## 33873              Core staff
## 33874                Drivers
## 33875               Managers
## 33876 High skill tech staff
## 33877              Core staff
## 33878               Laborers
## 33882                HR staff
## 33890   Waiters/barmen staff
## 33891                HR staff
## 33892                HR staff
## 33893                HR staff
## 33894                HR staff
## 33895             Sales staff
## 33896               Managers
## 33897          Medicine staff
## 33898             Secretaries
## 33899             Sales staff
## 33915                Drivers
## 33916           Realty agents
## 33917             Accountants
## 33918                Drivers
## 33919               Managers
## 33920                Drivers
## 33955               Managers
## 33956               Laborers
## 33957             Sales staff
## 33958                Drivers
## 33959                Drivers
## 33960                Drivers
## 33961             Sales staff
## 33975          Cleaning staff
## 33976          Cleaning staff
## 33977          Cleaning staff
## 33978          Cleaning staff
## 33979                HR staff
## 33980          Cleaning staff
## 33981          Cleaning staff
```

```
## 33982               HR staff
## 33983         Cleaning staff
## 33984         Cleaning staff
## 33985         Cleaning staff
## 34006  Waiters/barmen staff
## 34007  Waiters/barmen staff
## 34008               HR staff
## 34009               HR staff
## 34010               HR staff
## 34011               HR staff
## 34012               HR staff
## 34013               HR staff
## 34014               HR staff
## 34015               HR staff
## 34016               HR staff
## 34017         Cleaning staff
## 34018               HR staff
## 34019               HR staff
## 34020               HR staff
## 34021               HR staff
## 34022               HR staff
## 34023               HR staff
## 34024         Cleaning staff
## 34033               HR staff
## 34034         Security staff
## 34035               HR staff
## 34036         Security staff
## 34037         Cleaning staff
## 34038               HR staff
## 34039         Cleaning staff
## 34040               HR staff
## 34041               HR staff
## 34050         Security staff
## 34051               HR staff
## 34052               HR staff
## 34053               HR staff
## 34054               HR staff
## 34055               HR staff
## 34056               HR staff
## 34059               HR staff
## 34060         Cleaning staff
## 34061               HR staff
## 34062               HR staff
## 34098               HR staff
## 34099               HR staff
## 34100               HR staff
## 34101               HR staff
## 34102               HR staff
## 34103               HR staff
## 34104     Low-skill Laborers
## 34105               Laborers
## 34106               Laborers
## 34107            Sales staff
## 34108               IT staff
```

```
## 34109            Core staff
## 34110              Laborers
## 34111           Sales staff
## 34112              Laborers
## 34129              HR staff
## 34130         Cleaning staff
## 34131              HR staff
## 34132              HR staff
## 34133              HR staff
## 34149         Cleaning staff
## 34150              HR staff
## 34151         Cleaning staff
## 34152              HR staff
## 34153              HR staff
## 34154  Waiters/barmen staff
## 34155              HR staff
## 34156              HR staff
## 34157              HR staff
## 34158         Cleaning staff
## 34159              HR staff
## 34160              HR staff
## 34161              HR staff
## 34162              HR staff
## 34163              HR staff
## 34164              HR staff
## 34165         Cleaning staff
## 34166              HR staff
## 34167         Cleaning staff
## 34168              HR staff
## 34169              HR staff
## 34184              HR staff
## 34185              HR staff
## 34186              HR staff
## 34187  Waiters/barmen staff
## 34188              HR staff
## 34189         Cleaning staff
## 34190  Waiters/barmen staff
## 34191         Security staff
## 34192  Waiters/barmen staff
## 34193         Cleaning staff
## 34194         Cleaning staff
## 34195              HR staff
## 34196              HR staff
## 34219  Waiters/barmen staff
## 34220  Waiters/barmen staff
## 34221              HR staff
## 34222              HR staff
## 34223              HR staff
## 34224              HR staff
## 34225         Cleaning staff
## 34226              HR staff
## 34227              HR staff
## 34228              HR staff
## 34232              HR staff
```

```
## 34271                HR staff
## 34272                HR staff
## 34273                HR staff
## 34274                HR staff
## 34275                HR staff
## 34276                HR staff
## 34286                 Drivers
## 34287          Security staff
## 34288                 Drivers
## 34289                HR staff
## 34295  Waiters/barmen staff
## 34296                HR staff
## 34297                HR staff
## 34298                HR staff
## 34303                Laborers
## 34304                Laborers
## 34315                HR staff
## 34316              Core staff
## 34317              Core staff
## 34318                 Drivers
## 34319             Accountants
## 34320             Sales staff
## 34321             Accountants
## 34322              Core staff
## 34323                 Drivers
## 34324                HR staff
## 34339                HR staff
## 34354                HR staff
## 34355  Waiters/barmen staff
## 34369              Core staff
## 34371          Security staff
## 34374  Waiters/barmen staff
## 34378          Security staff
## 34382                HR staff
## 34383          Cleaning staff
## 34384                HR staff
## 34390                HR staff
## 34402          Cleaning staff
## 34412                HR staff
## 34413                HR staff
## 34414          Cleaning staff
## 34415                HR staff
## 34416                HR staff
## 34417  Waiters/barmen staff
## 34418                HR staff
## 34419                HR staff
## 34420                HR staff
## 34421          Cleaning staff
## 34422                Managers
## 34423 High skill tech staff
## 34424                 Drivers
## 34425              Core staff
## 34426                Managers
## 34427                IT staff
```

```
## 34428 Private service staff
## 34429                Drivers
## 34430                Drivers
## 34431             Core staff
## 34432                Drivers
## 34433         Security staff
## 34445         Cleaning staff
## 34446               HR staff
## 34447               HR staff
## 34448               HR staff
## 34449               HR staff
## 34457               Laborers
## 34458               Laborers
## 34459 Private service staff
## 34460  Waiters/barmen staff
## 34461         Security staff
## 34462               HR staff
## 34463               HR staff
## 34464               HR staff
## 34465               HR staff
## 34466               HR staff
## 34467               HR staff
## 34468               HR staff
## 34475            Sales staff
## 34476               HR staff
## 34477               HR staff
## 34478         Cleaning staff
## 34479               HR staff
## 34480               HR staff
## 34481         Security staff
## 34503             Core staff
## 34504             Core staff
## 34505             Core staff
## 34506             Core staff
## 34507          Cooking staff
## 34516               HR staff
## 34517               HR staff
## 34518         Cleaning staff
## 34519               HR staff
## 34520               HR staff
## 34521               HR staff
## 34529               HR staff
## 34530            Accountants
## 34531 High skill tech staff
## 34532             Core staff
## 34533 High skill tech staff
## 34534               HR staff
## 34535               HR staff
## 34536               HR staff
## 34537               HR staff
## 34548               Managers
## 34549               Managers
## 34551         Cleaning staff
## 34552         Cleaning staff
```

```
## 34553                HR staff
## 34555  Waiters/barmen staff
## 34556                HR staff
## 34557          Security staff
## 34580                HR staff
## 34581                HR staff
## 34582                HR staff
## 34583                HR staff
## 34584          Cleaning staff
## 34585                HR staff
## 34586                HR staff
## 34587          Cleaning staff
## 34589          Cleaning staff
## 34597          Cleaning staff
## 34598                HR staff
## 34609                Laborers
## 34610                Laborers
## 34611                Laborers
## 34612             Sales staff
## 34613                Laborers
## 34614                HR staff
## 34615          Cleaning staff
## 34616                HR staff
## 34617          Security staff
## 34618                HR staff
## 34619                HR staff
## 34620          Cleaning staff
## 34636             Sales staff
## 34637              Core staff
## 34638              Core staff
## 34641             Sales staff
## 34642 Private service staff
## 34644                HR staff
## 34645                HR staff
## 34646                HR staff
## 34647          Cleaning staff
## 34648                HR staff
## 34702          Security staff
## 34703                HR staff
## 34704          Security staff
## 34705          Security staff
## 34706          Security staff
## 34707                HR staff
## 34708                HR staff
## 34716              Core staff
## 34717          Security staff
## 34718                Managers
## 34719 High skill tech staff
## 34735                HR staff
## 34736                HR staff
## 34737          Security staff
## 34748                HR staff
## 34749                HR staff
## 34750          Cleaning staff
```

```
## 34751         Cleaning staff
## 34752              HR staff
## 34753              Laborers
## 34754              Managers
## 34755              Laborers
## 34761         Medicine staff
## 34762           Accountants
## 34763              Laborers
## 34764              Managers
## 34765           Accountants
## 34766              HR staff
## 34767              HR staff
## 34768              HR staff
## 34771              HR staff
## 34772              HR staff
## 34773              HR staff
## 34775           Sales staff
## 34776               Drivers
## 34777              Laborers
## 34778            Core staff
## 34779              HR staff
## 34780         Cleaning staff
## 34781              HR staff
## 34782              Laborers
## 34783         Cooking staff
## 34784              Managers
## 34785           Sales staff
## 34786           Secretaries
## 34787              Laborers
## 34788           Sales staff
## 34789           Sales staff
## 34790              HR staff
## 34791              HR staff
## 34792              HR staff
## 34793         Cleaning staff
## 34794              HR staff
## 34795              HR staff
## 34796               Drivers
## 34797            Core staff
## 34798              Laborers
## 34799               Drivers
## 34800              Laborers
## 34801              HR staff
## 34802              HR staff
## 34803              HR staff
## 34804         Cleaning staff
## 34805         Security staff
## 34806         Security staff
## 34807              HR staff
## 34808              HR staff
## 34809              HR staff
## 34810              HR staff
## 34811              HR staff
## 34819              HR staff
```

```
## 34820             HR staff
## 34824           Core staff
## 34825 High skill tech staff
## 34826        Realty agents
## 34839            Laborers
## 34840            Managers
## 34841             HR staff
## 34845             HR staff
## 34849             HR staff
## 34851             HR staff
## 34852             HR staff
## 34853             HR staff
## 34854  Waiters/barmen staff
## 34855             HR staff
## 34856             HR staff
## 34857       Security staff
## 34858            Managers
## 34859             Drivers
## 34860            Managers
## 34861       Cleaning staff
## 34862          Core staff
## 34863       Security staff
## 34864          Core staff
## 34865          Core staff
## 34866         Sales staff
## 34867         Sales staff
## 34881            Laborers
## 34882            Laborers
## 34889            Laborers
## 34890            Laborers
## 34891         Sales staff
## 34892         Sales staff
## 34899            Laborers
## 34900            Managers
## 34901            Managers
## 34902            Laborers
## 34903            Laborers
## 34904            Laborers
## 34914       Cleaning staff
## 34915  Waiters/barmen staff
## 34916  Waiters/barmen staff
## 34918         Accountants
## 34919 Private service staff
## 34920 High skill tech staff
## 34921         Sales staff
## 34922            Laborers
## 34923          Core staff
## 34940  Waiters/barmen staff
## 34945         Sales staff
## 34946          Core staff
## 34947          Core staff
## 34955          Core staff
## 34956          Core staff
## 34957            Managers
```

```
## 34968             Sales staff
## 34969             Sales staff
## 34973               Laborers
## 34974               Laborers
## 34983               Managers
## 34984             Secretaries
## 34985          Security staff
## 34986               Laborers
## 34987               Managers
## 34991               HR staff
## 34992               HR staff
## 34993               HR staff
## 34994               HR staff
## 34995               HR staff
## 34996               HR staff
## 34997               HR staff
## 35022   Waiters/barmen staff
## 35023          Security staff
## 35043          Security staff
## 35044               HR staff
## 35045               HR staff
## 35046               HR staff
## 35047               HR staff
## 35048               HR staff
## 35064               HR staff
## 35065               HR staff
## 35066               HR staff
## 35067               HR staff
## 35068  High skill tech staff
## 35069  Private service staff
## 35070   Waiters/barmen staff
## 35071           Cooking staff
## 35072             Sales staff
## 35073  Private service staff
## 35077                 Drivers
## 35078           Realty agents
## 35079                 Drivers
## 35080               Laborers
## 35081          Security staff
## 35082                 Drivers
## 35083             Sales staff
## 35084                 Drivers
## 35085                 Drivers
## 35086             Sales staff
## 35147          Medicine staff
## 35148                 Drivers
## 35149             Accountants
## 35150               Laborers
## 35151             Sales staff
## 35152             Sales staff
## 35153               Laborers
## 35154             Sales staff
## 35155               Laborers
## 35156             Sales staff
```

```
## 35157            Sales staff
## 35158               Drivers
## 35159         Medicine staff
## 35160              Laborers
## 35163               HR staff
## 35164               HR staff
## 35165               HR staff
## 35166               HR staff
## 35167               HR staff
## 35187         Security staff
## 35188               HR staff
## 35189         Security staff
## 35190              Laborers
## 35191 High skill tech staff
## 35192               Drivers
## 35193               Drivers
## 35194              Laborers
## 35195               Drivers
## 35211         Medicine staff
## 35212         Medicine staff
## 35213             Core staff
## 35214 High skill tech staff
## 35215            Secretaries
## 35216               HR staff
## 35217               HR staff
## 35218               HR staff
## 35238               HR staff
## 35240               HR staff
## 35241               HR staff
## 35261             Core staff
## 35262             Core staff
## 35263             Core staff
## 35264         Medicine staff
## 35297            Secretaries
## 35298              Laborers
## 35299              Managers
## 35300 Private service staff
## 35301 Private service staff
## 35302            Secretaries
## 35303             Core staff
## 35304             Core staff
## 35305            Sales staff
## 35353            Accountants
## 35354            Accountants
## 35355             Core staff
## 35356            Accountants
## 35357            Sales staff
## 35358              Managers
## 35359            Accountants
## 35360             Core staff
## 35361 High skill tech staff
## 35363               HR staff
## 35364               HR staff
## 35365               HR staff
```

```
## 35397                HR staff
## 35398                HR staff
## 35399                HR staff
## 35407                Managers
## 35408                Managers
## 35409                Managers
## 35410          Security staff
## 35411          Cleaning staff
## 35412                HR staff
## 35413                HR staff
## 35414                HR staff
## 35415                HR staff
## 35416          Security staff
## 35417          Cleaning staff
## 35426                 Drivers
## 35427 High skill tech staff
## 35428             Accountants
## 35429              Core staff
## 35463                Laborers
## 35464              Core staff
## 35465                Laborers
## 35466                Laborers
## 35467             Sales staff
## 35471             Accountants
## 35493             Sales staff
## 35494             Accountants
## 35495                Laborers
## 35496                Managers
## 35497                Managers
## 35498             Accountants
## 35499          Medicine staff
## 35500 High skill tech staff
## 35501 High skill tech staff
## 35502             Accountants
## 35503                Laborers
## 35504              Core staff
## 35505                Laborers
## 35506              Core staff
## 35507                Managers
## 35508              Core staff
## 35529                HR staff
## 35530                HR staff
## 35537                HR staff
## 35538                HR staff
## 35539                HR staff
## 35540                HR staff
## 35600              Core staff
## 35601           Cooking staff
## 35602             Sales staff
## 35603          Medicine staff
## 35604              Core staff
## 35605             Sales staff
## 35635                HR staff
## 35636                HR staff
```

```
## 35637               HR staff
## 35638               HR staff
## 35639  Waiters/barmen staff
## 35640               HR staff
## 35641  Waiters/barmen staff
## 35642               HR staff
## 35643               HR staff
## 35644               HR staff
## 35645               HR staff
## 35646               HR staff
## 35647               HR staff
## 35648         Cleaning staff
## 35649               HR staff
## 35695            Sales staff
## 35696            Sales staff
## 35697             Core staff
## 35698          Realty agents
## 35699             Core staff
## 35700                Drivers
## 35701            Sales staff
## 35702  Waiters/barmen staff
## 35703         Security staff
## 35704            Sales staff
## 35705               Laborers
## 35706        Medicine staff
## 35707            Accountants
## 35708         Cleaning staff
## 35709               Laborers
## 35710               Laborers
## 35740            Secretaries
## 35759             Core staff
## 35760             Core staff
## 35761             Core staff
## 35762             Core staff
## 35763            Sales staff
## 35764             Core staff
## 35765             Core staff
## 35766             Core staff
## 35767                Drivers
## 35768             Core staff
## 35769             Core staff
## 35770        Medicine staff
## 35792               HR staff
## 35793               HR staff
## 35794               HR staff
## 35795               HR staff
## 35797         Cleaning staff
## 35800               Laborers
## 35801                Drivers
## 35802                Drivers
## 35803               Laborers
## 35815               HR staff
## 35816               HR staff
## 35817               HR staff
```

```
## 35818             HR staff
## 35911          Accountants
## 35912          Accountants
## 35913          Sales staff
## 35914              Drivers
## 35915          Sales staff
## 35916          Sales staff
## 35927              Drivers
## 35928       Security staff
## 35929              Drivers
## 35930              Drivers
## 35931 High skill tech staff
## 35932    Low-skill Laborers
## 35933          Sales staff
## 35934             Managers
## 35935             Laborers
## 35936          Sales staff
## 35937              Drivers
## 35938             Laborers
## 35939             Laborers
## 35940             Laborers
## 35941             Laborers
## 35942             Laborers
## 35943          Sales staff
## 35944             Laborers
## 35945             Laborers
## 35946             HR staff
## 35989          Accountants
## 35996              Drivers
## 35997       Cleaning staff
## 35998          Sales staff
## 35999             Laborers
## 36000          Sales staff
## 36009             HR staff
## 36010             HR staff
## 36011             HR staff
## 36012             HR staff
## 36013             HR staff
## 36014       Cleaning staff
## 36015             HR staff
## 36016  Waiters/barmen staff
## 36017             HR staff
## 36018             HR staff
## 36019  Waiters/barmen staff
## 36020             HR staff
## 36021  Waiters/barmen staff
## 36022             HR staff
## 36023             HR staff
## 36038          Accountants
## 36039             HR staff
## 36040             HR staff
## 36041             HR staff
## 36042             HR staff
## 36043       Cleaning staff
```

```
## 36044        Security staff
## 36045        Cleaning staff
## 36046              HR staff
## 36047  Waiters/barmen staff
## 36081              HR staff
## 36082              HR staff
## 36083        Cleaning staff
## 36084              HR staff
## 36085              HR staff
## 36086              HR staff
## 36087              HR staff
## 36088              HR staff
## 36089              HR staff
## 36090              HR staff
## 36091              HR staff
## 36092              HR staff
## 36093              HR staff
## 36105            Core staff
## 36106              HR staff
## 36107            Core staff
## 36109           Accountants
## 36110              Managers
## 36111           Sales staff
## 36112              Managers
## 36113           Accountants
## 36114              HR staff
## 36118    Low-skill Laborers
## 36119              HR staff
## 36120              HR staff
## 36124               Drivers
## 36128              HR staff
## 36129               Drivers
## 36130              Laborers
## 36132              Laborers
## 36149              HR staff
## 36150              HR staff
## 36151              HR staff
## 36152              HR staff
## 36153              HR staff
## 36155              HR staff
## 36160              HR staff
## 36161              HR staff
## 36163              HR staff
## 36164        Cleaning staff
## 36168 High skill tech staff
## 36170              Managers
## 36173              Laborers
## 36179        Security staff
## 36185        Security staff
## 36190              HR staff
## 36191        Security staff
## 36194 High skill tech staff
## 36197              Laborers
## 36205              HR staff
```

```
## 36206              HR staff
## 36207              HR staff
## 36208        Cleaning staff
## 36209              HR staff
## 36214 High skill tech staff
## 36232 High skill tech staff
## 36237              HR staff
## 36238 High skill tech staff
## 36242              HR staff
## 36243              HR staff
## 36244              HR staff
## 36245              HR staff
## 36246              HR staff
## 36257              HR staff
## 36259            Sales staff
## 36268              Managers
## 36270              HR staff
## 36271              HR staff
## 36280            Core staff
## 36281              Drivers
## 36282         Security staff
## 36283              Laborers
## 36286              Managers
## 36288            Core staff
## 36290 High skill tech staff
## 36291              HR staff
## 36292              Laborers
## 36293              Drivers
## 36298              HR staff
## 36317              HR staff
## 36321  Waiters/barmen staff
## 36322            Core staff
## 36323              HR staff
## 36326              HR staff
## 36328              HR staff
## 36329            Accountants
## 36338  Waiters/barmen staff
## 36343            Sales staff
## 36346              HR staff
## 36349              HR staff
## 36354              HR staff
## 36355              HR staff
## 36356              HR staff
## 36359              Drivers
## 36360              Drivers
## 36362            Core staff
## 36366 High skill tech staff
## 36368              IT staff
## 36369              HR staff
## 36370              HR staff
## 36371              HR staff
## 36372              HR staff
## 36374              HR staff
## 36382              HR staff
```

```
## 36386              HR staff
## 36387              HR staff
## 36388        Security staff
## 36389        Security staff
## 36390              HR staff
## 36406              HR staff
## 36407              HR staff
## 36408              HR staff
## 36409              HR staff
## 36419              HR staff
## 36422           Sales staff
## 36433              HR staff
## 36434              Managers
## 36435              HR staff
## 36440              HR staff
## 36441              Laborers
## 36446 Private service staff
## 36447 High skill tech staff
## 36451               Drivers
```

In order to get a whole dataset, we can complete the data frame with the imputed ones.

```
# complete the whole dataset with the imputed variable
completeData <- complete(tempData)
```

3.2.3 Multiple imputation with missForest package

In MICE, parametric regression models are needed and assumptions about the distribution of data are considered as prior knowledge. In the applica- tion of MICE it is necessary to specify the appropriate approach for each imputed variable in advance. If the assumptions are not correct then biased imputation results are likely to be produced. For example, it is assumed that a continuous variable fits the normal distribution; in fact this variable cannot perfectly fit normal distribution, which would lead to the estimation of problematic parameters. In addition, if there are complicated interactions, nonlinear relation structures, or high correlation between the regression model variables in the data sets, then predictions made using MICE tend to be less accurate. Consequently, the quality of the imputation would be decreased. missForest is a nonparametric method, which implies that it does not need to make assumptions about structural aspects of the data. Therefore, biased imputation results would not be caused by improper assumptions when applying missForest.

Regarding the prime parameter selection, there are three parameters that need to be taken into consideration. Firstly, the dataset with missing values **xmins**. Then, **maxiter**, which helps decide the number of iterations that need to be done during the imputation. The last parameter is **ntree** which implies the number of random trees to grow in each forest.

```
library(missForest)

# Missing value imputation with missForest
imputed_Data <- missForest(to_imp_data)

##   missForest iteration 1 in progress...done!
##   missForest iteration 2 in progress...done!
##   missForest iteration 3 in progress...done!
# save data and check imputation with OCCUPATION_TYPE
completeData <- imputed_Data$ximp
completeData$OCCUPATION_TYPE
```

223

```
##   [1] Managers               Managers               Security staff
##   [4] Sales staff            Sales staff            Sales staff
##   [7] Sales staff            Managers               Managers
##  [10] Managers               Accountants            Accountants
##  [13] Laborers               Laborers               Laborers
##  [16] Laborers               Laborers               Laborers
##  [19] Accountants            Accountants            Laborers
##  [22] Laborers               Laborers               Private service staff
##  [25] Private service staff Laborers               Laborers
##  [28] Managers               Managers               Managers
##  [31] Managers               Managers               Managers
##  [34] Drivers                Drivers                Drivers
##  [37] Drivers                Drivers                Drivers
##  [40] Drivers                Drivers                Laborers
##  [43] Laborers               Laborers               Laborers
##  [46] Laborers               Laborers               Laborers
##  [49] Laborers               Laborers               Laborers
##  [52] Laborers               Laborers               Laborers
##  [55] Laborers               Laborers               Core staff
##  [58] Core staff             Security staff         Managers
##  [61] Managers               Managers               Managers
##  [64] Managers               Managers               Managers
##  [67] Managers               Managers               Managers
##  [70] Cleaning staff         Core staff             Core staff
##  [73] Core staff             Core staff             Laborers
##  [76] Laborers               Laborers               Laborers
##  [79] Laborers               Laborers               Laborers
##  [82] Laborers               Laborers               Laborers
##  [85] Laborers               Laborers               Laborers
##  [88] Laborers               Laborers               Laborers
##  [91] Laborers               Laborers               Laborers
##  [94] Laborers               Laborers               Laborers
##  [97] Laborers               Laborers               Laborers
## [100] Laborers               Laborers               Laborers
## [103] Laborers               Laborers               Laborers
## [106] Laborers               Laborers               Laborers
## [109] Laborers               Laborers               Laborers
## [112] Laborers               Laborers               Laborers
## [115] Laborers               Laborers               Laborers
## [118] Laborers               Laborers               Laborers
## [121] Laborers               Laborers               Laborers
## [124] Laborers               Laborers               High skill tech staff
## [127] High skill tech staff High skill tech staff High skill tech staff
## [130] High skill tech staff Drivers                Drivers
## [133] Drivers                Drivers                Laborers
## [136] Laborers               Laborers               Laborers
## [139] Laborers               Laborers               Laborers
## [142] Laborers               Laborers               Laborers
## [145] Laborers               Laborers               Laborers
## [148] Laborers               Laborers               Laborers
## [151] Cooking staff          Cooking staff          Cooking staff
## [154] Medicine staff         Cooking staff          Cooking staff
## [157] Cooking staff          Drivers                Drivers
## [160] Drivers                Drivers                Drivers
```

```
##   [163] Drivers               Cleaning staff        Cleaning staff
##   [166] Cleaning staff        Cleaning staff        Cleaning staff
##   [169] Cleaning staff        Managers              Managers
##   [172] Drivers               Laborers              Laborers
##   [175] Laborers              Laborers              Laborers
##   [178] Laborers              Laborers              Laborers
##   [181] Laborers              Laborers              Core staff
##   [184] Core staff            Core staff            Core staff
##   [187] Core staff            Core staff            Core staff
##   [190] Core staff            Laborers              Laborers
##   [193] Laborers              Laborers              Accountants
##   [196] Accountants           Accountants           Accountants
##   [199] Sales staff           Accountants           Accountants
##   [202] Sales staff           Core staff            Core staff
##   [205] Core staff            Core staff            Core staff
##   [208] Core staff            Core staff            Core staff
##   [211] Core staff            Core staff            Core staff
##   [214] Core staff            Core staff            Drivers
##   [217] Drivers               Private service staff Core staff
##   [220] Sales staff           Sales staff           Sales staff
##   [223] Sales staff           Sales staff           Sales staff
##   [226] Sales staff           Sales staff           Sales staff
##   [229] High skill tech staff High skill tech staff Core staff
##   [232] Core staff            Drivers               Laborers
##   [235] Laborers              Laborers              Drivers
##   [238] Drivers               Laborers              Laborers
##   [241] Drivers               Managers              Managers
##   [244] Managers              Accountants           Accountants
##   [247] Accountants           Managers              Managers
##   [250] Drivers               Drivers               Drivers
##   [253] Drivers               Drivers               Security staff
##   [256] Security staff        High skill tech staff Core staff
##   [259] Core staff            Core staff            Core staff
##   [262] Core staff            Core staff            Core staff
##   [265] Core staff            Core staff            Core staff
##   [268] Core staff            Core staff            Core staff
##   [271] Core staff            Security staff        Security staff
##   [274] Security staff        Security staff        Security staff
##   [277] Security staff        Security staff        Security staff
##   [280] Managers              Managers              Drivers
##   [283] Drivers               Managers              Managers
##   [286] Managers              Managers              Managers
##   [289] Sales staff           Sales staff           Sales staff
##   [292] Sales staff           Sales staff           Sales staff
##   [295] Sales staff           Sales staff           Sales staff
##   [298] Sales staff           Sales staff           Sales staff
##   [301] Sales staff           Sales staff           Sales staff
##   [304] Sales staff           Sales staff           High skill tech staff
##   [307] Laborers              Laborers              Laborers
##   [310] Laborers              Laborers              Laborers
##   [313] Laborers              Managers              Managers
##   [316] Managers              Managers              Managers
##   [319] Managers              Managers              Managers
##   [322] Accountants           Accountants           Accountants
```

```
## [325] Accountants          Accountants          Accountants
## [328] Accountants          Accountants          Accountants
## [331] Accountants          Accountants          Accountants
## [334] Accountants          Accountants          Accountants
## [337] Accountants          Accountants          Managers
## [340] Managers             Managers             Managers
## [343] Managers             Managers             Managers
## [346] Managers             Managers             Managers
## [349] Managers             Drivers              Drivers
## [352] Drivers              Drivers              Core staff
## [355] Core staff           Core staff           Managers
## [358] Managers             Sales staff          Drivers
## [361] Drivers              Drivers              Drivers
## [364] Drivers              Cleaning staff       Cleaning staff
## [367] Cleaning staff       Core staff           Core staff
## [370] Core staff           Core staff           Cleaning staff
## [373] Managers             Managers             Managers
## [376] Managers             Managers             Laborers
## [379] Laborers             Laborers             Laborers
## [382] Laborers             Laborers             Laborers
## [385] Cleaning staff       Cleaning staff       Cleaning staff
## [388] Cleaning staff       Cleaning staff       Cleaning staff
## [391] Cleaning staff       Cleaning staff       Cleaning staff
## [394] Cleaning staff       Cleaning staff       Cleaning staff
## [397] Cleaning staff       Cleaning staff       Medicine staff
## [400] Cleaning staff       Laborers             Laborers
## [403] Laborers             Laborers             Cleaning staff
## [406] Cleaning staff       Cleaning staff       Cleaning staff
## [409] High skill tech staff Sales staff         Sales staff
## [412] Sales staff          Sales staff          Sales staff
## [415] Sales staff          Sales staff          Sales staff
## [418] Sales staff          Sales staff          Sales staff
## [421] Sales staff          Sales staff          Laborers
## [424] Laborers             Laborers             Laborers
## [427] Laborers             Laborers             Laborers
## [430] Laborers             Managers             Managers
## [433] Managers             Security staff       Security staff
## [436] High skill tech staff High skill tech staff High skill tech staff
## [439] High skill tech staff High skill tech staff High skill tech staff
## [442] High skill tech staff Drivers             Drivers
## [445] Laborers             Laborers             Managers
## [448] Managers             Drivers              Drivers
## [451] Drivers              Drivers              Drivers
## [454] Drivers              Drivers              Low-skill Laborers
## [457] Security staff       Security staff       Security staff
## [460] Low-skill Laborers   Security staff       Core staff
## [463] Sales staff          Sales staff          Sales staff
## [466] Sales staff          Managers             Managers
## [469] Managers             Managers             Core staff
## [472] Core staff           Core staff           Core staff
## [475] Core staff           Core staff           Accountants
## [478] Accountants          Accountants          Accountants
## [481] Accountants          Accountants          Security staff
## [484] Security staff       Core staff           Drivers
```

```
##   [487] Drivers               Drivers              Drivers
##   [490] Drivers               Core staff           Core staff
##   [493] Core staff            Core staff           Core staff
##   [496] Core staff            Core staff           Security staff
##   [499] Cooking staff         Cooking staff        Laborers
##   [502] Laborers              Laborers             Laborers
##   [505] Drivers               Sales staff          Sales staff
##   [508] Sales staff           Sales staff          Sales staff
##   [511] Medicine staff        Cleaning staff       Medicine staff
##   [514] Medicine staff        Medicine staff       Medicine staff
##   [517] Managers              Drivers              Drivers
##   [520] Laborers              Laborers             Laborers
##   [523] Laborers              Laborers             Laborers
##   [526] Laborers              Laborers             Laborers
##   [529] Cooking staff         Laborers             Laborers
##   [532] Laborers              Laborers             Laborers
##   [535] Laborers              Laborers             Laborers
##   [538] High skill tech staff High skill tech staff High skill tech staff
##   [541] Cooking staff         Cooking staff        Sales staff
##   [544] Sales staff           Sales staff          Laborers
##   [547] Laborers              Drivers              Drivers
##   [550] Drivers               Drivers              Drivers
##   [553] Drivers               Drivers              Drivers
##   [556] Drivers               Drivers              Core staff
##   [559] Core staff            Core staff           Core staff
##   [562] Core staff            Core staff           Core staff
##   [565] Core staff            Core staff           Laborers
##   [568] Laborers              Laborers             Laborers
##   [571] Laborers              Sales staff          Sales staff
##   [574] Sales staff           Sales staff          Sales staff
##   [577] Sales staff           Sales staff          Sales staff
##   [580] Laborers              Sales staff          Sales staff
##   [583] Sales staff           Laborers             Laborers
##   [586] Laborers              Laborers             Laborers
##   [589] Laborers              Laborers             Laborers
##   [592] Laborers              Laborers             Laborers
##   [595] Laborers              Laborers             Laborers
##   [598] Cleaning staff        Cleaning staff       Cleaning staff
##   [601] Laborers              Laborers             Laborers
##   [604] Laborers              Laborers             Laborers
##   [607] Laborers              Laborers             Laborers
##   [610] Laborers              Accountants          Accountants
##   [613] Medicine staff        Cooking staff        Medicine staff
##   [616] Medicine staff        Medicine staff       Sales staff
##   [619] Sales staff           Sales staff          Sales staff
##   [622] Sales staff           Sales staff          High skill tech staff
##   [625] Cleaning staff        Cleaning staff       Core staff
##   [628] Core staff            Core staff           Core staff
##   [631] Core staff            Core staff           Sales staff
##   [634] Sales staff           Sales staff          Sales staff
##   [637] High skill tech staff High skill tech staff High skill tech staff
##   [640] High skill tech staff High skill tech staff High skill tech staff
##   [643] High skill tech staff High skill tech staff Drivers
##   [646] Drivers               Drivers              Drivers
```

```
##    [649] Drivers              Drivers               Laborers
##    [652] Laborers             Laborers              Laborers
##    [655] Laborers             Laborers              Drivers
##    [658] Drivers              Sales staff           Sales staff
##    [661] Sales staff          Sales staff           Laborers
##    [664] Laborers             Low-skill Laborers    Low-skill Laborers
##    [667] Low-skill Laborers   Low-skill Laborers    Medicine staff
##    [670] Medicine staff       Medicine staff        Medicine staff
##    [673] Medicine staff       Medicine staff        Medicine staff
##    [676] Laborers             Laborers              Laborers
##    [679] Laborers             Laborers              Laborers
##    [682] Laborers             Laborers              Laborers
##    [685] Core staff           Core staff            Cleaning staff
##    [688] Cleaning staff       Cleaning staff        Cleaning staff
##    [691] Cleaning staff       Cleaning staff        Cleaning staff
##    [694] Cleaning staff       Cleaning staff        Cleaning staff
##    [697] Cleaning staff       Cleaning staff        Cleaning staff
##    [700] Cleaning staff       Cleaning staff        Cleaning staff
##    [703] Cleaning staff       Cleaning staff        Cleaning staff
##    [706] Managers             Managers              Managers
##    [709] Managers             Managers              Managers
##    [712] Cooking staff        Cooking staff         Cooking staff
##    [715] Cooking staff        Cooking staff         Managers
##    [718] Managers             Managers              Sales staff
##    [721] Sales staff          Laborers              Laborers
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##    [727] Laborers             Laborers              Laborers
##    [730] Sales staff          Sales staff           Sales staff
##    [733] Sales staff          Laborers              Laborers
##    [736] Laborers             Managers              Managers
##    [739] Managers             Core staff            Core staff
##    [742] Core staff           Core staff            Core staff
##    [745] Core staff           Sales staff           Sales staff
##    [748] Managers             Managers              Managers
##    [751] Managers             Managers              Managers
##    [754] Managers             Laborers              Laborers
##    [757] Laborers             Laborers              Laborers
##    [760] Laborers             Laborers              Laborers
##    [763] Laborers             Laborers              Laborers
##    [766] Laborers             Laborers              Laborers
##    [769] Laborers             Laborers              Core staff
##    [772] Core staff           Cleaning staff        Cleaning staff
##    [775] Cleaning staff       Cleaning staff        Cleaning staff
##    [778] Cleaning staff       Cleaning staff        Cleaning staff
##    [781] Cleaning staff       Cleaning staff        Managers
##    [784] Managers             Managers              Managers
##    [787] Managers             Managers              Managers
##    [790] Sales staff          Sales staff           Sales staff
##    [793] Sales staff          Sales staff           Sales staff
##    [796] Sales staff          Sales staff           Sales staff
##    [799] Sales staff          Sales staff           Sales staff
##    [802] Sales staff          Sales staff           Cooking staff
##    [805] Cooking staff        Cooking staff         Cooking staff
##    [808] Cooking staff        Cooking staff         Cooking staff
```

```
##   [811] Sales staff           Sales staff          Sales staff
##   [814] Sales staff           Sales staff          Core staff
##   [817] Core staff            Core staff           Core staff
##   [820] Core staff            Core staff           Medicine staff
##   [823] Medicine staff        Laborers             Laborers
##   [826] Sales staff           Security staff       Security staff
##   [829] Managers              Sales staff          Sales staff
##   [832] Sales staff           Drivers              Drivers
##   [835] Drivers               Drivers              Drivers
##   [838] Drivers               Drivers              Drivers
##   [841] Drivers               Drivers              Managers
##   [844] Managers              Managers             Managers
##   [847] Managers              Managers             Managers
##   [850] Managers              Managers             Core staff
##   [853] Core staff            Laborers             Laborers
##   [856] Laborers              Laborers             Sales staff
##   [859] Sales staff           Laborers             Cleaning staff
##   [862] Laborers              Laborers             Managers
##   [865] Managers              Private service staff Core staff
##   [868] Core staff            Core staff           Drivers
##   [871] Drivers               Drivers              Drivers
##   [874] Drivers               Drivers              Drivers
##   [877] Drivers               Accountants          Accountants
##   [880] Accountants           Accountants          Accountants
##   [883] Accountants           Laborers             Laborers
##   [886] Laborers              Laborers             Laborers
##   [889] Laborers              Laborers             Laborers
##   [892] Laborers              Laborers             Sales staff
##   [895] Sales staff           Sales staff          Sales staff
##   [898] Sales staff           Sales staff          Sales staff
##   [901] Sales staff           Laborers             Sales staff
##   [904] Cooking staff         Cooking staff        Cooking staff
##   [907] Cooking staff         Security staff       Laborers
##   [910] Laborers              Laborers             Sales staff
##   [913] Sales staff           Sales staff          Sales staff
##   [916] Medicine staff        Medicine staff       Medicine staff
##   [919] Medicine staff        Medicine staff       Medicine staff
##   [922] Medicine staff        Medicine staff       Medicine staff
##   [925] Medicine staff        Medicine staff       Medicine staff
##   [928] Medicine staff        Medicine staff       Medicine staff
##   [931] Managers              Managers             Managers
##   [934] Drivers               Drivers              Managers
##   [937] Managers              Managers             Managers
##   [940] Managers              Managers             Accountants
##   [943] Accountants           Core staff           Core staff
##   [946] Core staff            Core staff           Security staff
##   [949] Security staff        Secretaries          Secretaries
##   [952] Secretaries           Secretaries          Secretaries
##   [955] Core staff            Core staff           Core staff
##   [958] Core staff            Sales staff          Core staff
##   [961] Core staff            Laborers             Laborers
##   [964] Laborers              Laborers             Laborers
##   [967] Laborers              Security staff       Sales staff
##   [970] Sales staff           Sales staff          Sales staff
```

229

```
##    [973] Sales staff        Core staff         Core staff
##    [976] Core staff         Core staff         Core staff
##    [979] Core staff         Core staff         Core staff
##    [982] Core staff         Cleaning staff     Cleaning staff
##    [985] Cleaning staff      Cleaning staff     Laborers
##    [988] Laborers            Sales staff        Accountants
##    [991] Accountants         Sales staff        Accountants
##    [994] Sales staff         Sales staff        Core staff
##    [997] Core staff          Managers           Core staff
##   [1000] Core staff          Core staff         Core staff
##   [1003] Cleaning staff      Cleaning staff     Cleaning staff
##   [1006] Security staff      Security staff     Security staff
##   [1009] Security staff      Security staff     Security staff
##   [1012] Security staff      Sales staff        Laborers
##   [1015] Laborers            Laborers           Laborers
##   [1018] Laborers            Laborers           Core staff
##   [1021] Core staff          Core staff         Medicine staff
##   [1024] Medicine staff      Medicine staff     Cooking staff
##   [1027] Cooking staff       Cooking staff      Cooking staff
##   [1030] Cooking staff       Accountants        Accountants
##   [1033] Accountants         Accountants        Core staff
##   [1036] Laborers            Managers           Managers
##   [1039] Managers            Managers           Managers
##   [1042] Laborers            Managers           Managers
##   [1045] Managers            Managers           Managers
##   [1048] Managers            Managers           Managers
##   [1051] Security staff      Security staff     Security staff
##   [1054] Security staff      Laborers           Security staff
##   [1057] Security staff      Security staff     Managers
##   [1060] Managers            Managers           Managers
##   [1063] Managers            Managers           Managers
##   [1066] Managers            Drivers            Laborers
##   [1069] Security staff      Security staff     Security staff
##   [1072] Security staff      Security staff     Medicine staff
##   [1075] Medicine staff      Medicine staff     Laborers
##   [1078] Laborers            Laborers           Laborers
##   [1081] Laborers            Laborers           Laborers
##   [1084] Laborers            Laborers           Laborers
##   [1087] Laborers            Laborers           Laborers
##   [1090] Laborers            Sales staff        Sales staff
##   [1093] Laborers            Laborers           Drivers
##   [1096] Core staff          Core staff         Laborers
##   [1099] Laborers            Laborers           Laborers
##   [1102] Laborers            Laborers           Laborers
##   [1105] Laborers            Laborers           Laborers
##   [1108] Core staff          Core staff         Drivers
##   [1111] Drivers             Drivers            Drivers
##   [1114] Medicine staff      Medicine staff     Medicine staff
##   [1117] Medicine staff      Medicine staff     Medicine staff
##   [1120] Medicine staff      Medicine staff     Medicine staff
##   [1123] Secretaries         Secretaries        Secretaries
##   [1126] Drivers             Drivers            Drivers
##   [1129] Drivers             Drivers            Drivers
##   [1132] Laborers            Laborers           Laborers
```

```
## [1135] Laborers              Laborers              Laborers
## [1138] Laborers              Laborers              Laborers
## [1141] Laborers              Managers              Managers
## [1144] Cooking staff         Cooking staff         Managers
## [1147] Managers              Managers              Managers
## [1150] Managers              Managers              Managers
## [1153] Managers              Managers              Managers
## [1156] Managers              Managers              Managers
## [1159] Managers              Managers              Managers
## [1162] Managers              Managers              Managers
## [1165] Managers              Managers              Managers
## [1168] Managers              Cooking staff         Cooking staff
## [1171] Cooking staff         Cooking staff         Cooking staff
## [1174] Cooking staff         Cooking staff         Cooking staff
## [1177] Cooking staff         Cooking staff         Sales staff
## [1180] Sales staff           Sales staff           Sales staff
## [1183] Sales staff           Sales staff           Sales staff
## [1186] Sales staff           Medicine staff        Medicine staff
## [1189] Medicine staff        Medicine staff        Medicine staff
## [1192] Medicine staff        Core staff            Core staff
## [1195] Core staff            Core staff            Core staff
## [1198] Core staff            Core staff            Core staff
## [1201] Cooking staff         Cooking staff         Cooking staff
## [1204] Cooking staff         Cooking staff         Cleaning staff
## [1207] Cleaning staff        Cleaning staff        Cleaning staff
## [1210] Cleaning staff        Cleaning staff        Cleaning staff
## [1213] Cleaning staff        Cleaning staff        Cleaning staff
## [1216] Cleaning staff        Cleaning staff        Cleaning staff
## [1219] Cleaning staff        Cleaning staff        Cleaning staff
## [1222] Cleaning staff        Cleaning staff        Cleaning staff
## [1225] Cleaning staff        Cleaning staff        Cleaning staff
## [1228] Cleaning staff        Cleaning staff        Managers
## [1231] Managers              Sales staff           Drivers
## [1234] Drivers               Accountants           Laborers
## [1237] Laborers              Medicine staff        Drivers
## [1240] Drivers               Drivers               Drivers
## [1243] Medicine staff        Medicine staff        Medicine staff
## [1246] Medicine staff        Medicine staff        Medicine staff
## [1249] Sales staff           Sales staff           Medicine staff
## [1252] Medicine staff        Medicine staff        Medicine staff
## [1255] Medicine staff        Medicine staff        Medicine staff
## [1258] Sales staff           Medicine staff        Medicine staff
## [1261] Medicine staff        Managers              Managers
## [1264] Managers              Managers              Managers
## [1267] Managers              Managers              High skill tech staff
## [1270] High skill tech staff High skill tech staff High skill tech staff
## [1273] Cleaning staff        Cleaning staff        Cleaning staff
## [1276] Cleaning staff        Cleaning staff        Cleaning staff
## [1279] Cleaning staff        Cleaning staff        Cleaning staff
## [1282] Cleaning staff        Drivers               Drivers
## [1285] Drivers               Drivers               Drivers
## [1288] Medicine staff        Medicine staff        Medicine staff
## [1291] Medicine staff        Medicine staff        Medicine staff
## [1294] Medicine staff        Medicine staff        Medicine staff
```

```
##   [1297] Medicine staff      Sales staff        Sales staff
##   [1300] Medicine staff      Medicine staff     Medicine staff
##   [1303] Medicine staff      Medicine staff     Medicine staff
##   [1306] Medicine staff      Medicine staff     Cleaning staff
##   [1309] Cleaning staff      Cleaning staff     Cleaning staff
##   [1312] Cleaning staff      Cleaning staff     Core staff
##   [1315] Core staff          Core staff         Core staff
##   [1318] Core staff          Core staff         Core staff
##   [1321] Core staff          Core staff         Core staff
##   [1324] Core staff          Sales staff        Sales staff
##   [1327] Sales staff         High skill tech staff High skill tech staff
##   [1330] High skill tech staff High skill tech staff Managers
##   [1333] Managers            Managers           Managers
##   [1336] Managers            Managers           Core staff
##   [1339] Laborers            Laborers           Laborers
##   [1342] Laborers            Laborers           Laborers
##   [1345] Secretaries         Secretaries        Secretaries
##   [1348] Secretaries         Drivers            Drivers
##   [1351] Drivers             Drivers            Drivers
##   [1354] Sales staff         Sales staff        Sales staff
##   [1357] Laborers            Laborers           Laborers
##   [1360] Laborers            Laborers           Laborers
##   [1363] Sales staff         Sales staff        Sales staff
##   [1366] Managers            Managers           Managers
##   [1369] Managers            Managers           Managers
##   [1372] Managers            Managers           Managers
##   [1375] Managers            Managers           Managers
##   [1378] Managers            Cleaning staff     Cooking staff
##   [1381] Cooking staff       Security staff     Laborers
##   [1384] Laborers            Laborers           Laborers
##   [1387] Laborers            Laborers           Laborers
##   [1390] Laborers            Laborers           Laborers
##   [1393] Laborers            Laborers           Laborers
##   [1396] Laborers            Laborers           High skill tech staff
##   [1399] High skill tech staff High skill tech staff High skill tech staff
##   [1402] High skill tech staff Sales staff      Sales staff
##   [1405] Sales staff         Sales staff        Sales staff
##   [1408] Sales staff         Sales staff        Sales staff
##   [1411] Sales staff         Sales staff        Drivers
##   [1414] Drivers             Drivers            Drivers
##   [1417] Accountants         Drivers            Drivers
##   [1420] Managers            Managers           Managers
##   [1423] Managers            Managers           Managers
##   [1426] Cooking staff       Cooking staff      Cooking staff
##   [1429] Cooking staff       Cooking staff      Medicine staff
##   [1432] Accountants         Accountants        Drivers
##   [1435] Drivers             Drivers            Drivers
##   [1438] Drivers             Drivers            Drivers
##   [1441] Cleaning staff      Cleaning staff     Cleaning staff
##   [1444] Cleaning staff      Cleaning staff     Cleaning staff
##   [1447] Cleaning staff      Cleaning staff     Cleaning staff
##   [1450] Core staff          Core staff         Core staff
##   [1453] Core staff          Core staff         Laborers
##   [1456] Laborers            Laborers           Laborers
```

```
##   [1459] Laborers             Sales staff            Sales staff
##   [1462] Sales staff          Sales staff            Sales staff
##   [1465] Sales staff          Sales staff            Sales staff
##   [1468] Sales staff          Laborers               Sales staff
##   [1471] Laborers             Core staff             Core staff
##   [1474] Laborers             Laborers               Laborers
##   [1477] Laborers             Laborers               Laborers
##   [1480] Laborers             Laborers               Laborers
##   [1483] Laborers             Laborers               Laborers
##   [1486] Laborers             Laborers               Laborers
##   [1489] Laborers             Laborers               Laborers
##   [1492] Sales staff          Sales staff            Sales staff
##   [1495] Sales staff          Sales staff            Sales staff
##   [1498] Sales staff          Medicine staff         Medicine staff
##   [1501] Medicine staff       Sales staff            Security staff
##   [1504] Security staff       Managers               Managers
##   [1507] Managers             Managers               Managers
##   [1510] Managers             Managers               Managers
##   [1513] Managers             Laborers               Laborers
##   [1516] Laborers             Laborers               Drivers
##   [1519] Laborers             Sales staff            Sales staff
##   [1522] Sales staff          Sales staff            Sales staff
##   [1525] Sales staff          Sales staff            Drivers
##   [1528] Drivers              Drivers                Laborers
##   [1531] Laborers             Laborers               Laborers
##   [1534] High skill tech staff High skill tech staff High skill tech staff
##   [1537] High skill tech staff High skill tech staff High skill tech staff
##   [1540] High skill tech staff High skill tech staff High skill tech staff
##   [1543] High skill tech staff High skill tech staff High skill tech staff
##   [1546] Waiters/barmen staff  Waiters/barmen staff   Waiters/barmen staff
##   [1549] Waiters/barmen staff  Waiters/barmen staff   Waiters/barmen staff
##   [1552] Waiters/barmen staff  Core staff             Core staff
##   [1555] Core staff           Core staff             High skill tech staff
##   [1558] High skill tech staff High skill tech staff High skill tech staff
##   [1561] High skill tech staff Medicine staff         Medicine staff
##   [1564] Cooking staff        Cooking staff          Cooking staff
##   [1567] Cooking staff        Laborers               Laborers
##   [1570] Laborers             Laborers               Laborers
##   [1573] Laborers             Laborers               Laborers
##   [1576] Sales staff          Sales staff            Sales staff
##   [1579] Sales staff          Core staff             Core staff
##   [1582] Core staff           Private service staff  Managers
##   [1585] Managers             Managers               Laborers
##   [1588] Laborers             Laborers               Laborers
##   [1591] Laborers             Laborers               Medicine staff
##   [1594] Medicine staff       Security staff         Security staff
##   [1597] Security staff       Security staff         Security staff
##   [1600] Security staff       Security staff         Accountants
##   [1603] Accountants          Accountants            Accountants
##   [1606] Accountants          Accountants            Accountants
##   [1609] Accountants          Accountants            Sales staff
##   [1612] Sales staff          Sales staff            Sales staff
##   [1615] Sales staff          High skill tech staff  High skill tech staff
##   [1618] High skill tech staff High skill tech staff High skill tech staff
```

233

```
##   [1621] High skill tech staff High skill tech staff High skill tech staff
##   [1624] High skill tech staff High skill tech staff High skill tech staff
##   [1627] High skill tech staff High skill tech staff High skill tech staff
##   [1630] Drivers               Laborers               Laborers
##   [1633] Cleaning staff        Sales staff            High skill tech staff
##   [1636] Sales staff           Sales staff            Sales staff
##   [1639] Medicine staff        Medicine staff         Laborers
##   [1642] Laborers              Laborers               Security staff
##   [1645] Security staff        Security staff         Security staff
##   [1648] Security staff        Security staff         Sales staff
##   [1651] Core staff            Core staff             Core staff
##   [1654] Core staff            Core staff             Core staff
##   [1657] Core staff            Core staff             Core staff
##   [1660] Cleaning staff        Cleaning staff         Cleaning staff
##   [1663] Cleaning staff        Sales staff            Sales staff
##   [1666] Cleaning staff        Medicine staff         Managers
##   [1669] Cooking staff         Cooking staff          Cooking staff
##   [1672] Cooking staff         Cooking staff          Cooking staff
##   [1675] Cooking staff         Low-skill Laborers     Low-skill Laborers
##   [1678] Low-skill Laborers    Low-skill Laborers     Managers
##   [1681] Managers              Managers               Managers
##   [1684] Sales staff           Sales staff            Sales staff
##   [1687] Laborers              Laborers               Laborers
##   [1690] Laborers              Sales staff            Sales staff
##   [1693] Core staff            Core staff             Core staff
##   [1696] Core staff            Core staff             Core staff
##   [1699] Core staff            Core staff             Core staff
##   [1702] Cleaning staff        Cleaning staff         Cleaning staff
##   [1705] Cleaning staff        Cleaning staff         Cleaning staff
##   [1708] Cleaning staff        Cleaning staff         Cleaning staff
##   [1711] Cleaning staff        Medicine staff         Managers
##   [1714] Managers              Managers               Managers
##   [1717] Managers              Managers               Managers
##   [1720] Managers              Managers               Sales staff
##   [1723] Sales staff           Sales staff            Sales staff
##   [1726] Sales staff           Sales staff            Laborers
##   [1729] Laborers              HR staff               HR staff
##   [1732] HR staff              HR staff               HR staff
##   [1735] HR staff              Waiters/barmen staff   Sales staff
##   [1738] Sales staff           Sales staff            Sales staff
##   [1741] Sales staff           Drivers                Drivers
##   [1744] Managers              Managers               Security staff
##   [1747] Security staff        Sales staff            Sales staff
##   [1750] Sales staff           Medicine staff         Medicine staff
##   [1753] Medicine staff        Medicine staff         Medicine staff
##   [1756] Medicine staff        Medicine staff         Medicine staff
##   [1759] Medicine staff        Medicine staff         Medicine staff
##   [1762] Sales staff           Sales staff            Sales staff
##   [1765] Sales staff           Sales staff            Sales staff
##   [1768] Sales staff           Sales staff            Sales staff
##   [1771] Sales staff           Sales staff            Sales staff
##   [1774] Sales staff           Sales staff            Sales staff
##   [1777] Drivers               Drivers                Drivers
##   [1780] Drivers               Drivers                Drivers
```

234

```
## [1783] Sales staff            Sales staff            Laborers
## [1786] Laborers               Laborers               Laborers
## [1789] Sales staff            Sales staff            Sales staff
## [1792] Sales staff            Sales staff            Sales staff
## [1795] Sales staff            Laborers               Cooking staff
## [1798] Medicine staff         Sales staff            Sales staff
## [1801] Sales staff            Sales staff            Sales staff
## [1804] Laborers               Laborers               Laborers
## [1807] Laborers               Laborers               Laborers
## [1810] Laborers               Drivers                Drivers
## [1813] Drivers                Drivers                Core staff
## [1816] Core staff             Core staff             Cleaning staff
## [1819] Sales staff            Sales staff            Sales staff
## [1822] Sales staff            Sales staff            Sales staff
## [1825] Sales staff            Sales staff            Cleaning staff
## [1828] Cleaning staff         Cleaning staff         Cleaning staff
## [1831] Cleaning staff         Cleaning staff         Accountants
## [1834] Accountants            Accountants            Accountants
## [1837] Accountants            Accountants            Accountants
## [1840] Accountants            Accountants            Accountants
## [1843] Core staff             Core staff             Core staff
## [1846] Laborers               Medicine staff         Medicine staff
## [1849] Medicine staff         Medicine staff         Cooking staff
## [1852] Medicine staff         Medicine staff         Medicine staff
## [1855] Managers               Managers               Managers
## [1858] Cleaning staff         Cooking staff          Cooking staff
## [1861] Cooking staff          Cooking staff          Cooking staff
## [1864] Medicine staff         Medicine staff         Medicine staff
## [1867] Cooking staff          Cooking staff          Cooking staff
## [1870] Cooking staff          Sales staff            Core staff
## [1873] Laborers               Laborers               Laborers
## [1876] Laborers               Sales staff            Sales staff
## [1879] Sales staff            Sales staff            Sales staff
## [1882] Sales staff            Sales staff            Drivers
## [1885] Drivers                Drivers                Drivers
## [1888] Drivers                Core staff             Core staff
## [1891] Core staff             Core staff             Core staff
## [1894] Core staff             Laborers               Laborers
## [1897] Laborers               Laborers               Laborers
## [1900] Laborers               Laborers               Laborers
## [1903] Laborers               Laborers               Sales staff
## [1906] Sales staff            Sales staff            Sales staff
## [1909] Laborers               Laborers               Laborers
## [1912] High skill tech staff Sales staff            Sales staff
## [1915] High skill tech staff High skill tech staff Sales staff
## [1918] Sales staff            Accountants            Sales staff
## [1921] Sales staff            Accountants            Sales staff
## [1924] Sales staff            Sales staff            Sales staff
## [1927] Accountants            Managers               Managers
## [1930] Managers               Managers               Managers
## [1933] Managers               Sales staff            Accountants
## [1936] Accountants            Laborers               Laborers
## [1939] Laborers               Laborers               Laborers
## [1942] Laborers               Laborers               Laborers
```

```
##   [1945] Laborers              Laborers              Laborers
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##   [1951] Cooking staff         Cooking staff         Cooking staff
##   [1954] Cooking staff         Core staff            Core staff
##   [1957] Core staff            Core staff            Core staff
##   [1960] Core staff            Core staff            Core staff
##   [1963] Core staff            IT staff              Laborers
##   [1966] Laborers              Laborers              Laborers
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##   [1972] Laborers              Laborers              Laborers
##   [1975] Laborers              Laborers              Laborers
##   [1978] Laborers              Laborers              Laborers
##   [1981] Laborers              Laborers              Cooking staff
##   [1984] Cooking staff         Cooking staff         Cooking staff
##   [1987] Cooking staff         Cooking staff         Cooking staff
##   [1990] Cooking staff         Cooking staff         Cooking staff
##   [1993] Drivers               Drivers               Drivers
##   [1996] Drivers               Drivers               Laborers
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##   [2008] Laborers              Laborers              Laborers
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##   [2014] Core staff            Drivers               Drivers
##   [2017] Drivers               Drivers               Managers
##   [2020] Managers              Managers              Managers
##   [2023] Managers              Managers              Managers
##   [2026] Managers              Managers              Managers
##   [2029] Sales staff           Sales staff           Sales staff
##   [2032] Sales staff           Sales staff           Sales staff
##   [2035] Sales staff           Sales staff           Sales staff
##   [2038] Sales staff           Sales staff           Cleaning staff
##   [2041] Cleaning staff        Cleaning staff        Cleaning staff
##   [2044] Cleaning staff        Cleaning staff        Cleaning staff
##   [2047] Cleaning staff        Cleaning staff        Cleaning staff
##   [2050] Cleaning staff        Private service staff Private service staff
##   [2053] Private service staff Private service staff Private service staff
##   [2056] Private service staff Private service staff Private service staff
##   [2059] Private service staff Sales staff           Sales staff
##   [2062] Sales staff           Sales staff           Laborers
##   [2065] Laborers              Laborers              Drivers
##   [2068] Drivers               Drivers               Drivers
##   [2071] Drivers               Drivers               Drivers
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##   [2083] Sales staff           Sales staff           Sales staff
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##   [2092] Core staff            Core staff            Core staff
##   [2095] Core staff            Core staff            Core staff
##   [2098] Core staff            Sales staff           Sales staff
##   [2101] Laborers              Laborers              Cooking staff
##   [2104] Cooking staff         Cooking staff         Cooking staff
```

```
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##   [2110] Cooking staff        Cooking staff        Cooking staff
##   [2113] Cooking staff        Laborers             Laborers
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##   [2125] Laborers             Laborers             Medicine staff
##   [2128] Cleaning staff       Cleaning staff       Medicine staff
##   [2131] High skill tech staff High skill tech staff High skill tech staff
##   [2134] High skill tech staff High skill tech staff High skill tech staff
##   [2137] High skill tech staff High skill tech staff High skill tech staff
##   [2140] High skill tech staff High skill tech staff Core staff
##   [2143] Core staff           Core staff           Core staff
##   [2146] Core staff           Core staff           Cleaning staff
##   [2149] Cleaning staff       Laborers             Laborers
##   [2152] Laborers             Laborers             Laborers
##   [2155] Core staff           Managers             Managers
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##   [2161] Managers             Medicine staff       Medicine staff
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##   [2182] Laborers             High skill tech staff High skill tech staff
##   [2185] High skill tech staff High skill tech staff Core staff
##   [2188] Core staff           Core staff           Core staff
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##   [2194] Core staff           Core staff           Core staff
##   [2197] Cooking staff        Cooking staff        Cooking staff
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##   [2215] Accountants          Core staff           Core staff
##   [2218] Core staff           Core staff           Core staff
##   [2221] Core staff           Core staff           Core staff
##   [2224] Sales staff          Accountants          Cooking staff
##   [2227] Managers             Managers             Managers
##   [2230] Managers             Cleaning staff       Cleaning staff
##   [2233] Cleaning staff       Laborers             Laborers
##   [2236] Laborers             Laborers             Laborers
##   [2239] Laborers             Medicine staff       Medicine staff
##   [2242] Medicine staff       Medicine staff       Sales staff
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##   [2248] Managers             Managers             Managers
##   [2251] Managers             Managers             Low-skill Laborers
##   [2254] Low-skill Laborers   Low-skill Laborers   Low-skill Laborers
##   [2257] Low-skill Laborers   Low-skill Laborers   Low-skill Laborers
##   [2260] Low-skill Laborers   Low-skill Laborers   Low-skill Laborers
##   [2263] Laborers             Laborers             Laborers
##   [2266] Laborers             Laborers             Laborers
```

237

```
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##   [2281] Managers              Managers              Managers
##   [2284] Laborers              Laborers              Laborers
##   [2287] Core staff            Core staff            Core staff
##   [2290] Core staff            Core staff            Core staff
##   [2293] Sales staff           Sales staff           Sales staff
##   [2296] Sales staff           Sales staff           Sales staff
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##   [2305] Core staff            Sales staff           Sales staff
##   [2308] Sales staff           Sales staff           Sales staff
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##   [2314] Sales staff           Sales staff           Sales staff
##   [2317] Sales staff           Sales staff           Cleaning staff
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##   [2350] Sales staff           High skill tech staff Laborers
##   [2353] Laborers              Laborers              Laborers
##   [2356] Laborers              Laborers              Laborers
##   [2359] Laborers              Laborers              Laborers
##   [2362] Laborers              High skill tech staff High skill tech staff
##   [2365] High skill tech staff High skill tech staff High skill tech staff
##   [2368] Core staff            Core staff            Core staff
##   [2371] Core staff            Core staff            Core staff
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##   [2377] Core staff            Laborers              Laborers
##   [2380] Cooking staff         Cooking staff         Cooking staff
##   [2383] Cooking staff         Cooking staff         Cooking staff
##   [2386] Cooking staff         Cooking staff         Cooking staff
##   [2389] Cooking staff         Medicine staff        High skill tech staff
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##   [2395] Laborers              Laborers              Accountants
##   [2398] Accountants           Accountants           Accountants
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##   [2410] Medicine staff        Medicine staff        Sales staff
##   [2413] Sales staff           Sales staff           Sales staff
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##   [2419] Sales staff           Sales staff           Sales staff
##   [2422] Laborers              Managers              Managers
##   [2425] Managers              Managers              Managers
##   [2428] Managers              Managers              Managers
```

```
## [2431] Managers             Managers             Managers
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## [2437] Laborers             Laborers             Laborers
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## [2449] Managers             Managers             Managers
## [2452] Managers             Managers             Managers
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## [2476] Core staff           Core staff           Sales staff
## [2479] Core staff           Core staff           Core staff
## [2482] Core staff           Accountants          Core staff
## [2485] Core staff           Core staff           Accountants
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## [2491] Managers             Managers             Managers
## [2494] Managers             Managers             Managers
## [2497] Managers             Managers             Managers
## [2500] High skill tech staff High skill tech staff High skill tech staff
## [2503] High skill tech staff Managers             Managers
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## [2521] Sales staff          Medicine staff        Medicine staff
## [2524] Laborers             Laborers             Laborers
## [2527] Laborers             Laborers             Laborers
## [2530] Sales staff          Sales staff          Sales staff
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## [2545] Laborers             Medicine staff        Medicine staff
## [2548] Medicine staff        Medicine staff        Medicine staff
## [2551] Medicine staff        Medicine staff        Medicine staff
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## [2581] Core staff           Core staff           Core staff
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## [2587] High skill tech staff High skill tech staff Laborers
## [2590] High skill tech staff Laborers             Laborers
```

```
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## [2599] Sales staff           Core staff            Sales staff
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## [2614] Sales staff           Sales staff           Sales staff
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## [2623] Cleaning staff        Cleaning staff        Cleaning staff
## [2626] Cleaning staff        Cleaning staff        Cleaning staff
## [2629] Cleaning staff        Security staff        Security staff
## [2632] High skill tech staff High skill tech staff High skill tech staff
## [2635] High skill tech staff High skill tech staff High skill tech staff
## [2638] Core staff            Core staff            Core staff
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## [2647] Laborers              Laborers              Laborers
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## [2653] Core staff            Managers              Sales staff
## [2656] Sales staff           Sales staff           Sales staff
## [2659] Sales staff           Cooking staff         Cooking staff
## [2662] Cooking staff         Cooking staff         Sales staff
## [2665] Sales staff           Sales staff           Sales staff
## [2668] Sales staff           Sales staff           Sales staff
## [2671] Accountants           Accountants           Accountants
## [2674] Accountants           Accountants           Sales staff
## [2677] Sales staff           Accountants           Accountants
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## [2683] Cleaning staff        Sales staff           Sales staff
## [2686] Sales staff           Low-skill Laborers    Cooking staff
## [2689] Cooking staff         Cooking staff         High skill tech staff
## [2692] High skill tech staff High skill tech staff High skill tech staff
## [2695] High skill tech staff High skill tech staff High skill tech staff
## [2698] High skill tech staff High skill tech staff High skill tech staff
## [2701] High skill tech staff High skill tech staff High skill tech staff
## [2704] High skill tech staff Managers              Managers
## [2707] Managers              Managers              Laborers
## [2710] Laborers              Laborers              Laborers
## [2713] Drivers               Drivers               Drivers
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## [2722] Managers              Managers              Security staff
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## [2731] Laborers              Laborers              Cooking staff
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## [2737] Sales staff           Sales staff           Sales staff
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## [2746] Laborers              High skill tech staff High skill tech staff
## [2749] High skill tech staff High skill tech staff High skill tech staff
## [2752] High skill tech staff High skill tech staff High skill tech staff
```

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##    [2755] High skill tech staff High skill tech staff High skill tech staff
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##    [2764] Sales staff           Sales staff           Security staff
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##    [2782] Managers              Managers              Cooking staff
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##    [2794] Cooking staff         Cooking staff         Drivers
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##    [2824] Laborers              Security staff        Core staff
##    [2827] Core staff            Cleaning staff        Core staff
##    [2830] Core staff            Core staff            Core staff
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##    [2842] Laborers              Laborers              Laborers
##    [2845] Laborers              Laborers              Laborers
##    [2848] Sales staff           Sales staff           Laborers
##    [2851] Laborers              Laborers              Laborers
##    [2854] Laborers              Laborers              Sales staff
##    [2857] Sales staff           High skill tech staff High skill tech staff
##    [2860] High skill tech staff High skill tech staff High skill tech staff
##    [2863] High skill tech staff Sales staff           High skill tech staff
##    [2866] High skill tech staff High skill tech staff High skill tech staff
##    [2869] Sales staff           Sales staff           Sales staff
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##    [2875] High skill tech staff High skill tech staff High skill tech staff
##    [2878] High skill tech staff High skill tech staff Cooking staff
##    [2881] Cooking staff         Cooking staff         Cooking staff
##    [2884] Laborers              Medicine staff        Medicine staff
##    [2887] Medicine staff        Medicine staff        Medicine staff
##    [2890] Medicine staff        Cooking staff         Sales staff
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##    [2908] Drivers               Drivers               Drivers
##    [2911] Drivers               Drivers               Drivers
##    [2914] Security staff        Security staff        Core staff
```

```
##    [2917] Core staff            Core staff            Core staff
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##    [2923] Core staff            Core staff            Laborers
##    [2926] Laborers              Laborers              Laborers
##    [2929] Laborers              Laborers              Cooking staff
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##    [2941] Medicine staff        Medicine staff        Medicine staff
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##    [2947] Medicine staff        Medicine staff        Medicine staff
##    [2950] Managers              Managers              Managers
##    [2953] Cleaning staff        Cleaning staff        Cleaning staff
##    [2956] Cleaning staff        Cleaning staff        Cleaning staff
##    [2959] Drivers               Drivers               Cleaning staff
##    [2962] Cleaning staff        Cleaning staff        Cleaning staff
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##    [2968] Cooking staff         Cooking staff         Cooking staff
##    [2971] Laborers              Laborers              Laborers
##    [2974] High skill tech staff High skill tech staff Laborers
##    [2977] Laborers              Core staff            Core staff
##    [2980] Core staff            Core staff            Core staff
##    [2983] Core staff            Core staff            Core staff
##    [2986] Core staff            Core staff            Sales staff
##    [2989] Sales staff           Sales staff           Sales staff
##    [2992] Sales staff           Sales staff           Sales staff
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##    [3001] Sales staff           Sales staff           Sales staff
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##    [3013] Core staff            Core staff            Core staff
##    [3016] Core staff            Core staff            Core staff
##    [3019] Core staff            Core staff            Core staff
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##    [3025] Secretaries           Secretaries           Secretaries
##    [3028] Secretaries           Secretaries           Managers
##    [3031] Managers              Managers              Managers
##    [3034] Managers              Core staff            Core staff
##    [3037] Laborers              Laborers              Laborers
##    [3040] Laborers              Laborers              Laborers
##    [3043] Laborers              Laborers              Laborers
##    [3046] Laborers              Core staff            Core staff
##    [3049] Core staff            Core staff            Core staff
##    [3052] Core staff            Core staff            Core staff
##    [3055] Cleaning staff        Cleaning staff        Cleaning staff
##    [3058] Cleaning staff        Cleaning staff        Cleaning staff
##    [3061] Medicine staff        Medicine staff        Medicine staff
##    [3064] Medicine staff        Managers              Managers
##    [3067] Managers              Managers              Managers
##    [3070] Managers              Sales staff           Sales staff
##    [3073] Cleaning staff        Cleaning staff        Cleaning staff
##    [3076] Private service staff Private service staff Private service staff
```

```
## [3079] Cleaning staff         Laborers              Laborers
## [3082] Laborers               Laborers              Laborers
## [3085] Laborers               Laborers              Laborers
## [3088] Laborers               Laborers              Laborers
## [3091] Accountants            Accountants           Security staff
## [3094] Security staff         Managers              Managers
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## [3100] Sales staff            Sales staff           Sales staff
## [3103] Sales staff            Laborers              Laborers
## [3106] Cooking staff          Cooking staff         Drivers
## [3109] Drivers                Drivers               Drivers
## [3112] Drivers                Drivers               Drivers
## [3115] Drivers                Security staff        Security staff
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## [3124] Drivers                Drivers               Drivers
## [3127] Managers               Managers              Medicine staff
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## [3148] Sales staff            Sales staff           Sales staff
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## [3157] Core staff             Medicine staff        Medicine staff
## [3160] Medicine staff         Medicine staff        Medicine staff
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## [3172] Managers               Core staff            Core staff
## [3175] Managers               Managers              Managers
## [3178] Managers               Managers              Managers
## [3181] Managers               Managers              Managers
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## [3190] Sales staff            Sales staff           Laborers
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## [3220] Laborers               Laborers              Laborers
## [3223] Laborers               Laborers              Managers
## [3226] Managers               Managers              Managers
## [3229] Managers               Managers              Core staff
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## [3235] Private service staff Private service staff Private service staff
## [3238] Private service staff Private service staff Private service staff
```

```
##   [3241] Private service staff Private service staff Private service staff
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##   [3247] Private service staff Private service staff Managers
##   [3250] Managers              Managers              Managers
##   [3253] Managers              Managers              Managers
##   [3256] Managers              Managers              Managers
##   [3259] Managers              Managers              Laborers
##   [3262] Laborers              Laborers              Core staff
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##   [3274] Core staff            Core staff            Core staff
##   [3277] Core staff            Core staff            Managers
##   [3280] Managers              Managers              Managers
##   [3283] Managers              Managers              Managers
##   [3286] Managers              Managers              Managers
##   [3289] Managers              Managers              Managers
##   [3292] Managers              Managers              Managers
##   [3295] Managers              Laborers              Laborers
##   [3298] Laborers              Laborers              Laborers
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##   [3304] Accountants           Accountants           Accountants
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##   [3316] Drivers               Drivers               Drivers
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##   [3343] Sales staff           Sales staff           Cleaning staff
##   [3346] Medicine staff        Cleaning staff        Medicine staff
##   [3349] Cleaning staff        Private service staff Core staff
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##   [3358] Cleaning staff        Sales staff           Sales staff
##   [3361] Cleaning staff        Cleaning staff        Private service staff
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##   [3385] Cleaning staff        Cleaning staff        Cleaning staff
##   [3388] Cleaning staff        Cleaning staff        Cleaning staff
##   [3391] Laborers              Laborers              Laborers
##   [3394] Medicine staff        Medicine staff        Sales staff
##   [3397] Sales staff           Sales staff           Sales staff
##   [3400] Laborers              Laborers              Laborers
```

```
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##   [3412] Core staff           Core staff           Cooking staff
##   [3415] Cooking staff        Cooking staff        Cooking staff
##   [3418] Cooking staff        Cooking staff        Cooking staff
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##   [3424] High skill tech staff Laborers             Laborers
##   [3427] Laborers             Laborers             Laborers
##   [3430] Laborers             Laborers             Laborers
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##   [3436] Medicine staff       Medicine staff       Medicine staff
##   [3439] Medicine staff       Security staff       Core staff
##   [3442] Core staff           Core staff           Core staff
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##   [3448] Laborers             Laborers             Laborers
##   [3451] Medicine staff       High skill tech staff High skill tech staff
##   [3454] High skill tech staff Realty agents        Realty agents
##   [3457] Realty agents        Realty agents        Realty agents
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##   [3490] Medicine staff       Medicine staff       Laborers
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##   [3499] Core staff           Core staff           Core staff
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##   [3514] Drivers              Drivers              Drivers
##   [3517] Drivers              Drivers              Core staff
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##   [3523] Sales staff          Sales staff          Sales staff
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##   [3529] Drivers              Drivers              Drivers
##   [3532] Cooking staff        Cleaning staff       Cleaning staff
##   [3535] Laborers             Core staff           Core staff
##   [3538] Core staff           Core staff           Core staff
##   [3541] Core staff           Core staff           Laborers
##   [3544] Laborers             Laborers             Laborers
##   [3547] Laborers             Laborers             Laborers
##   [3550] Laborers             Laborers             Laborers
##   [3553] Sales staff          Sales staff          Sales staff
##   [3556] Drivers              Drivers              Drivers
##   [3559] Drivers              Drivers              Drivers
##   [3562] Drivers              Drivers              Drivers
```

```
## [3565] Drivers                 Drivers                 Drivers
## [3568] Core staff              Accountants             Accountants
## [3571] Accountants             Managers                Managers
## [3574] Cleaning staff          Cleaning staff          Cleaning staff
## [3577] Medicine staff          Sales staff             Sales staff
## [3580] Sales staff             Laborers                Laborers
## [3583] Core staff              Cleaning staff          Cleaning staff
## [3586] Cleaning staff          Cleaning staff          Cleaning staff
## [3589] Medicine staff          Medicine staff          Accountants
## [3592] Accountants             Accountants             Accountants
## [3595] Accountants             Laborers                Laborers
## [3598] Laborers                Laborers                Laborers
## [3601] Laborers                Laborers                Laborers
## [3604] Laborers                Laborers                Laborers
## [3607] Laborers                Laborers                Laborers
## [3610] Managers                Laborers                Laborers
## [3613] Laborers                Laborers                Laborers
## [3616] Laborers                Laborers                Laborers
## [3619] Laborers                Laborers                Laborers
## [3622] Laborers                Laborers                Laborers
## [3625] Sales staff             Sales staff             Sales staff
## [3628] Managers                Managers                Managers
## [3631] Managers                Managers                Laborers
## [3634] Laborers                Laborers                Laborers
## [3637] Laborers                Laborers                Laborers
## [3640] Laborers                Laborers                Laborers
## [3643] Laborers                Laborers                Laborers
## [3646] Laborers                Laborers                Medicine staff
## [3649] Medicine staff          Drivers                 Drivers
## [3652] Private service staff Private service staff Medicine staff
## [3655] Medicine staff          Cooking staff           Medicine staff
## [3658] Cooking staff           Medicine staff          Laborers
## [3661] Core staff              Core staff              Security staff
## [3664] Security staff          Security staff          Security staff
## [3667] Security staff          Security staff          Security staff
## [3670] Security staff          Security staff          Cooking staff
## [3673] Cooking staff           Cooking staff           Medicine staff
## [3676] Medicine staff          Cooking staff           Managers
## [3679] Managers                Managers                Managers
## [3682] Managers                Managers                Managers
## [3685] Managers                Laborers                Laborers
## [3688] Laborers                Laborers                Laborers
## [3691] Cooking staff           Cooking staff           Cooking staff
## [3694] Cooking staff           Sales staff             Sales staff
## [3697] Sales staff             Sales staff             Sales staff
## [3700] Sales staff             Sales staff             Sales staff
## [3703] Sales staff             Sales staff             Sales staff
## [3706] Sales staff             Sales staff             Sales staff
## [3709] Sales staff             Sales staff             Sales staff
## [3712] Sales staff             Sales staff             Cleaning staff
## [3715] Cleaning staff          Cleaning staff          Cleaning staff
## [3718] Cleaning staff          Cleaning staff          Cleaning staff
## [3721] Cleaning staff          Cleaning staff          Cleaning staff
## [3724] Cleaning staff          Cleaning staff          Cleaning staff
```

```
##   [3727] Secretaries        Secretaries             Core staff
##   [3730] Core staff         Core staff              Core staff
##   [3733] Core staff         Core staff              Medicine staff
##   [3736] Laborers           Laborers                Laborers
##   [3739] Laborers           Core staff              Core staff
##   [3742] Core staff         Core staff              Cleaning staff
##   [3745] Cleaning staff     Cleaning staff          Cleaning staff
##   [3748] Cleaning staff     Medicine staff          Medicine staff
##   [3751] Medicine staff     Drivers                 Drivers
##   [3754] Drivers            Drivers                 Drivers
##   [3757] Drivers            Drivers                 Drivers
##   [3760] Drivers            Drivers                 Drivers
##   [3763] Laborers           Laborers                Laborers
##   [3766] High skill tech staff High skill tech staff High skill tech staff
##   [3769] High skill tech staff High skill tech staff Core staff
##   [3772] Core staff         Core staff              Core staff
##   [3775] Core staff         Medicine staff          Core staff
##   [3778] Core staff         Core staff              Core staff
##   [3781] Core staff         Core staff              Laborers
##   [3784] Laborers           Laborers                Laborers
##   [3787] Laborers           Managers                Managers
##   [3790] Managers           Core staff              Core staff
##   [3793] Core staff         Core staff              Core staff
##   [3796] Core staff         Core staff              Core staff
##   [3799] Core staff         Laborers                Laborers
##   [3802] Cleaning staff     Cleaning staff          Cleaning staff
##   [3805] Cleaning staff     Cleaning staff          Cleaning staff
##   [3808] Cleaning staff     Cleaning staff          Cleaning staff
##   [3811] Laborers           Laborers                Laborers
##   [3814] Laborers           Laborers                Laborers
##   [3817] Laborers           Laborers                Laborers
##   [3820] Security staff     Security staff          Security staff
##   [3823] Laborers           Laborers                Laborers
##   [3826] Cleaning staff     Cleaning staff          Cleaning staff
##   [3829] Cleaning staff     Drivers                 Cooking staff
##   [3832] Cooking staff      Drivers                 Drivers
##   [3835] Drivers            Drivers                 Drivers
##   [3838] Drivers            Managers                Managers
##   [3841] Managers           Managers                Managers
##   [3844] Sales staff        Sales staff             Sales staff
##   [3847] Core staff         Core staff              Core staff
##   [3850] Core staff         Core staff              Core staff
##   [3853] Laborers           Laborers                Laborers
##   [3856] Drivers            Drivers                 Drivers
##   [3859] Drivers            Drivers                 Drivers
##   [3862] Accountants        Accountants             Accountants
##   [3865] Accountants        Accountants             Accountants
##   [3868] Laborers           Laborers                Laborers
##   [3871] Laborers           Laborers                Laborers
##   [3874] Cooking staff      Cooking staff           Cooking staff
##   [3877] Cooking staff      Cooking staff           Cooking staff
##   [3880] Cooking staff      Cooking staff           Cooking staff
##   [3883] Managers           Sales staff             Sales staff
##   [3886] Sales staff        Laborers                Laborers
```

247

```
##   [3889] Laborers             Sales staff          Sales staff
##   [3892] Sales staff          Sales staff          Laborers
##   [3895] Sales staff          Private service staff Private service staff
##   [3898] Private service staff Laborers            Laborers
##   [3901] Laborers             Laborers             Laborers
##   [3904] Laborers             Laborers             Laborers
##   [3907] Laborers             Laborers             High skill tech staff
##   [3910] High skill tech staff High skill tech staff High skill tech staff
##   [3913] Security staff        Security staff       Security staff
##   [3916] Laborers             Laborers             Laborers
##   [3919] Laborers             Laborers             Laborers
##   [3922] Laborers             Sales staff          Accountants
##   [3925] Core staff           Core staff           Core staff
##   [3928] Core staff           Core staff           Core staff
##   [3931] Core staff           Drivers              Drivers
##   [3934] Drivers              Drivers              Drivers
##   [3937] Drivers              Cleaning staff       Cleaning staff
##   [3940] Cleaning staff       Cleaning staff       Cleaning staff
##   [3943] Cleaning staff       Cleaning staff       Cleaning staff
##   [3946] Medicine staff       Medicine staff       Medicine staff
##   [3949] Medicine staff       Cleaning staff       Cleaning staff
##   [3952] Cleaning staff       Medicine staff       Laborers
##   [3955] Security staff       Laborers             Laborers
##   [3958] Laborers             Laborers             Accountants
##   [3961] IT staff             Laborers             Accountants
##   [3964] Drivers              Managers             Core staff
##   [3967] Medicine staff       Sales staff          Sales staff
##   [3970] Core staff           Core staff           Medicine staff
##   [3973] Laborers             Managers             High skill tech staff
##   [3976] Accountants          High skill tech staff Core staff
##   [3979] Drivers              High skill tech staff Medicine staff
##   [3982] Sales staff          Laborers             Laborers
##   [3985] Laborers             Security staff       Core staff
##   [3988] Sales staff          Core staff           Core staff
##   [3991] Core staff           Core staff           Sales staff
##   [3994] Sales staff          Sales staff          Sales staff
##   [3997] Sales staff          Sales staff          Managers
##   [4000] Managers             Managers             Managers
##   [4003] Managers             Accountants          Accountants
##   [4006] Accountants          Accountants          Accountants
##   [4009] Cooking staff        Cooking staff        Cooking staff
##   [4012] Laborers             Accountants          Accountants
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##   [4018] Laborers             Laborers             Managers
##   [4021] Managers             Managers             Managers
##   [4024] Cooking staff        Cooking staff        Cooking staff
##   [4027] Cooking staff        Cooking staff        Cleaning staff
##   [4030] Cooking staff        Cooking staff        Sales staff
##   [4033] Managers             Managers             Managers
##   [4036] Managers             Managers             Managers
##   [4039] Managers             Drivers              Drivers
##   [4042] Drivers              Drivers              Drivers
##   [4045] Drivers              Cooking staff        Cooking staff
##   [4048] Core staff           Core staff           Core staff
```

```
## [4051] Core staff          Core staff          Core staff
## [4054] Core staff          Core staff          Cooking staff
## [4057] Cooking staff       Cooking staff       Cooking staff
## [4060] Cooking staff       Laborers            Laborers
## [4063] Laborers            Laborers            Laborers
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## [4069] Laborers            Laborers            Laborers
## [4072] Managers            Managers            Managers
## [4075] Managers            Managers            Cleaning staff
## [4078] Cleaning staff      Cleaning staff      Security staff
## [4081] Security staff      Security staff      Security staff
## [4084] Security staff      Security staff      Cleaning staff
## [4087] Cleaning staff      Cleaning staff      Drivers
## [4090] Drivers             Drivers             Drivers
## [4093] Drivers             Drivers             Drivers
## [4096] Drivers             Drivers             Laborers
## [4099] Laborers            Laborers            Laborers
## [4102] Laborers            Sales staff         Sales staff
## [4105] Security staff      Laborers            Laborers
## [4108] Laborers            Laborers            Laborers
## [4111] Laborers            Laborers            Laborers
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## [4120] Drivers             Accountants         Accountants
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## [4126] Cooking staff       Cooking staff       Core staff
## [4129] Core staff          Core staff          Core staff
## [4132] Sales staff         Sales staff         Sales staff
## [4135] Sales staff         Laborers            Accountants
## [4138] Accountants         Accountants         Accountants
## [4141] Accountants         Accountants         Sales staff
## [4144] Sales staff         Sales staff         Sales staff
## [4147] Sales staff         Sales staff         Sales staff
## [4150] Sales staff         Sales staff         Sales staff
## [4153] Sales staff         Core staff          Core staff
## [4156] Managers            Laborers            Laborers
## [4159] Laborers            Laborers            Laborers
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## [4171] Laborers            Laborers            Laborers
## [4174] Laborers            Core staff          Core staff
## [4177] Core staff          Core staff          Core staff
## [4180] Core staff          Core staff          Core staff
## [4183] Core staff          Laborers            Laborers
## [4186] Security staff      Security staff      Security staff
## [4189] Accountants         Accountants         Accountants
## [4192] Accountants         Accountants         Accountants
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## [4198] Sales staff         Sales staff         Sales staff
## [4201] Sales staff         Sales staff         Sales staff
## [4204] Sales staff         Core staff          Core staff
## [4207] Core staff          Core staff          Core staff
## [4210] Core staff          Core staff          Core staff
```

```
## [4213] Core staff               Accountants            Accountants
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## [4222] Sales staff              Sales staff            Sales staff
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## [4228] Sales staff              Laborers               Laborers
## [4231] Laborers                 Laborers               Laborers
## [4234] Cooking staff            Cooking staff          Private service staff
## [4237] Cleaning staff           Cleaning staff         Cleaning staff
## [4240] Cleaning staff           Cleaning staff         Cleaning staff
## [4243] Cleaning staff           Cooking staff          Cleaning staff
## [4246] Cleaning staff           Sales staff            Sales staff
## [4249] Sales staff              Sales staff            Sales staff
## [4252] Laborers                 Managers               Managers
## [4255] Managers                 Managers               Managers
## [4258] Managers                 Laborers               Laborers
## [4261] Laborers                 Laborers               Laborers
## [4264] Laborers                 Laborers               Laborers
## [4267] Laborers                 Laborers               Laborers
## [4270] Managers                 Managers               Managers
## [4273] Managers                 Managers               Managers
## [4276] Managers                 Managers               Managers
## [4279] Managers                 Managers               Sales staff
## [4282] Sales staff              Cleaning staff         Medicine staff
## [4285] Cleaning staff           Cleaning staff         Medicine staff
## [4288] Medicine staff           Medicine staff         Sales staff
## [4291] Sales staff              Sales staff            Cooking staff
## [4294] Cooking staff            Laborers               Laborers
## [4297] Laborers                 Sales staff            Sales staff
## [4300] Managers                 Sales staff            Laborers
## [4303] Security staff           Security staff         Security staff
## [4306] Laborers                 Accountants            Accountants
## [4309] Cooking staff            Core staff             Core staff
## [4312] Core staff               Core staff             Core staff
## [4315] Drivers                  Drivers                Drivers
## [4318] Drivers                  Managers               Managers
## [4321] Managers                 Managers               Medicine staff
## [4324] Medicine staff           Core staff             High skill tech staff
## [4327] High skill tech staff High skill tech staff High skill tech staff
## [4330] Laborers                 Laborers               Laborers
## [4333] Laborers                 Laborers               Drivers
## [4336] Drivers                  Laborers               Laborers
## [4339] Laborers                 Laborers               Cleaning staff
## [4342] Cooking staff            Cooking staff          Cooking staff
## [4345] Cooking staff            Cooking staff          Cooking staff
## [4348] Cooking staff            Cooking staff          Cooking staff
## [4351] Realty agents            Realty agents          Realty agents
## [4354] Realty agents            Realty agents          Sales staff
## [4357] Sales staff              Laborers               IT staff
## [4360] IT staff                 IT staff               Drivers
## [4363] Drivers                  Drivers                Drivers
## [4366] Drivers                  Drivers                Drivers
## [4369] Drivers                  Drivers                Drivers
## [4372] Drivers                  Drivers                Drivers
```

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## [4375] Sales staff            Sales staff            Drivers
## [4378] Laborers               Laborers               Laborers
## [4381] Laborers               Laborers               Laborers
## [4384] Sales staff            High skill tech staff  Cleaning staff
## [4387] Sales staff            Sales staff            Core staff
## [4390] Core staff             Core staff             Core staff
## [4393] Core staff             Core staff             Sales staff
## [4396] Sales staff            Sales staff            Sales staff
## [4399] Sales staff            Sales staff            Sales staff
## [4402] Sales staff            Sales staff            Sales staff
## [4405] Sales staff            Laborers               Laborers
## [4408] Private service staff  Medicine staff         Medicine staff
## [4411] Medicine staff         Sales staff            Sales staff
## [4414] Sales staff            Sales staff            Sales staff
## [4417] Sales staff            Managers               Sales staff
## [4420] Managers               Managers               Cooking staff
## [4423] Cooking staff          Cooking staff          Laborers
## [4426] Laborers               Laborers               Laborers
## [4429] Laborers               High skill tech staff  High skill tech staff
## [4432] High skill tech staff  High skill tech staff  High skill tech staff
## [4435] High skill tech staff  High skill tech staff  High skill tech staff
## [4438] Laborers               Sales staff            Sales staff
## [4441] Sales staff            Sales staff            Sales staff
## [4444] Managers               Managers               Managers
## [4447] Managers               Managers               Medicine staff
## [4450] Medicine staff         Medicine staff         Cooking staff
## [4453] Cooking staff          Cooking staff          Medicine staff
## [4456] Medicine staff         Medicine staff         Medicine staff
## [4459] Medicine staff         Medicine staff         High skill tech staff
## [4462] High skill tech staff  High skill tech staff  High skill tech staff
## [4465] Cooking staff          Cooking staff          Cooking staff
## [4468] Cooking staff          Cooking staff          Managers
## [4471] Managers               Managers               Medicine staff
## [4474] Medicine staff         Drivers                Drivers
## [4477] Laborers               Laborers               Laborers
## [4480] Laborers               Laborers               Laborers
## [4483] Laborers               Managers               Laborers
## [4486] Private service staff  Private service staff  Private service staff
## [4489] Private service staff  Private service staff  Private service staff
## [4492] Medicine staff         Medicine staff         Medicine staff
## [4495] Medicine staff         Medicine staff         Medicine staff
## [4498] Medicine staff         Medicine staff         Medicine staff
## [4501] Medicine staff         Medicine staff         Managers
## [4504] Managers               Managers               Managers
## [4507] Managers               Cleaning staff         Cleaning staff
## [4510] Cleaning staff         Medicine staff         Medicine staff
## [4513] Medicine staff         Cleaning staff         Cleaning staff
## [4516] Cleaning staff         Cleaning staff         Cleaning staff
## [4519] Cleaning staff         Cleaning staff         Laborers
## [4522] Laborers               Laborers               Laborers
## [4525] Laborers               Laborers               Laborers
## [4528] Laborers               Laborers               Laborers
## [4531] Laborers               Laborers               Laborers
## [4534] Laborers               Laborers               Sales staff
```

```
## [4537] Sales staff            Sales staff            Laborers
## [4540] High skill tech staff High skill tech staff High skill tech staff
## [4543] High skill tech staff High skill tech staff High skill tech staff
## [4546] High skill tech staff High skill tech staff High skill tech staff
## [4549] High skill tech staff High skill tech staff Laborers
## [4552] Laborers              Laborers              Laborers
## [4555] Laborers              Laborers              Laborers
## [4558] Laborers              Laborers              Laborers
## [4561] Laborers              Managers              Managers
## [4564] Managers              Managers              Managers
## [4567] Managers              Drivers               Drivers
## [4570] Drivers               Drivers               Drivers
## [4573] Drivers               Drivers               Drivers
## [4576] Drivers               Secretaries           Managers
## [4579] Cleaning staff        Cleaning staff        Cleaning staff
## [4582] Cleaning staff        Cleaning staff        Cleaning staff
## [4585] Private service staff Private service staff Private service staff
## [4588] Private service staff Laborers              Laborers
## [4591] Laborers              Laborers              Laborers
## [4594] Laborers              Laborers              Laborers
## [4597] Laborers              Laborers              Laborers
## [4600] Laborers              Laborers              Laborers
## [4603] Laborers              Laborers              Laborers
## [4606] Laborers              Laborers              Laborers
## [4609] Cleaning staff        Cleaning staff        Cleaning staff
## [4612] Cleaning staff        Cleaning staff        Cleaning staff
## [4615] Cleaning staff        Managers              Managers
## [4618] Managers              Managers              Managers
## [4621] Managers              Managers              Managers
## [4624] Managers              Managers              Laborers
## [4627] Drivers               Drivers               Drivers
## [4630] Drivers               Core staff            Core staff
## [4633] Core staff            Accountants           Accountants
## [4636] Accountants           Accountants           Accountants
## [4639] Laborers              Laborers              Laborers
## [4642] Laborers              Laborers              Laborers
## [4645] Laborers              HR staff              HR staff
## [4648] HR staff              HR staff              HR staff
## [4651] HR staff              HR staff              HR staff
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## [4657] Medicine staff        Laborers              Laborers
## [4660] Laborers              Laborers              Laborers
## [4663] Laborers              Laborers              Laborers
## [4666] Laborers              Laborers              Laborers
## [4669] Laborers              Laborers              Laborers
## [4672] Laborers              Laborers              Accountants
## [4675] Accountants           Accountants           Accountants
## [4678] Accountants           Laborers              Laborers
## [4681] Laborers              Laborers              Core staff
## [4684] Core staff            Core staff            Cleaning staff
## [4687] Cleaning staff        High skill tech staff Cleaning staff
## [4690] Cleaning staff        Cleaning staff        Cleaning staff
## [4693] Laborers              Laborers              Managers
## [4696] Managers              Managers              Managers
```

```
## [4699] Drivers             Managers             Managers
## [4702] Managers            Managers             Laborers
## [4705] Laborers            Cooking staff        Laborers
## [4708] Security staff      Laborers             Laborers
## [4711] Laborers            Medicine staff       Medicine staff
## [4714] Medicine staff      Medicine staff       Medicine staff
## [4717] Medicine staff      Medicine staff       Medicine staff
## [4720] Medicine staff      Medicine staff       Medicine staff
## [4723] High skill tech staff High skill tech staff High skill tech staff
## [4726] High skill tech staff High skill tech staff High skill tech staff
## [4729] High skill tech staff Cooking staff      Cooking staff
## [4732] Sales staff         Sales staff          Sales staff
## [4735] Accountants         Accountants          Accountants
## [4738] Accountants         Accountants          Private service staff
## [4741] Private service staff Private service staff Private service staff
## [4744] Private service staff Private service staff Private service staff
## [4747] Private service staff Private service staff Private service staff
## [4750] Private service staff Private service staff Private service staff
## [4753] Private service staff Private service staff Private service staff
## [4756] High skill tech staff High skill tech staff Managers
## [4759] Managers            Managers             Laborers
## [4762] Laborers            Laborers             Laborers
## [4765] Laborers            Laborers             Laborers
## [4768] Laborers            Accountants          Sales staff
## [4771] Accountants         Accountants          Accountants
## [4774] Accountants         Sales staff          Sales staff
## [4777] Sales staff         Sales staff          Sales staff
## [4780] Sales staff         Sales staff          Sales staff
## [4783] Sales staff         Sales staff          Sales staff
## [4786] Laborers            Laborers             Laborers
## [4789] Laborers            Laborers             Laborers
## [4792] Laborers            Accountants          Accountants
## [4795] Accountants         Accountants          Accountants
## [4798] Accountants         Accountants          Accountants
## [4801] High skill tech staff High skill tech staff High skill tech staff
## [4804] High skill tech staff High skill tech staff High skill tech staff
## [4807] High skill tech staff Core staff         Core staff
## [4810] Core staff          Core staff           High skill tech staff
## [4813] High skill tech staff High skill tech staff High skill tech staff
## [4816] Cooking staff       Laborers             Drivers
## [4819] Security staff      Managers             Cleaning staff
## [4822] Cleaning staff      Core staff           Sales staff
## [4825] Laborers            Drivers              Medicine staff
## [4828] Sales staff         Sales staff          Sales staff
## [4831] Sales staff         Sales staff          Sales staff
## [4834] High skill tech staff Laborers           Laborers
## [4837] Accountants         Accountants          Laborers
## [4840] Laborers            Laborers             Sales staff
## [4843] Medicine staff      Sales staff          Accountants
## [4846] Sales staff         Sales staff          Core staff
## [4849] Security staff      Security staff       Laborers
## [4852] Core staff          Core staff           Sales staff
## [4855] Sales staff         Cooking staff        Cooking staff
## [4858] Managers            Laborers             Drivers
```

253

```
## [4861] Sales staff           Security staff        High skill tech staff
## [4864] Laborers              Laborers              Drivers
## [4867] Laborers              Laborers              Cleaning staff
## [4870] Core staff            Laborers              Laborers
## [4873] Laborers              Security staff        Laborers
## [4876] Laborers              Core staff            Sales staff
## [4879] Security staff        Laborers              Core staff
## [4882] Sales staff           Security staff        Sales staff
## [4885] Laborers              Core staff            Laborers
## [4888] Medicine staff        Drivers               Managers
## [4891] Medicine staff        Sales staff           Laborers
## [4894] Laborers              Laborers              Accountants
## [4897] Laborers              Drivers               Drivers
## [4900] Core staff            Security staff        Security staff
## [4903] Drivers               Drivers               Laborers
## [4906] Core staff            Core staff            High skill tech staff
## [4909] Sales staff           Drivers               Core staff
## [4912] Core staff            Core staff            Managers
## [4915] Laborers              Laborers              Laborers
## [4918] Laborers              Laborers              Sales staff
## [4921] Laborers              Laborers              Laborers
## [4924] Laborers              Core staff            Medicine staff
## [4927] Medicine staff        Cleaning staff        Sales staff
## [4930] Sales staff           Cleaning staff        Cooking staff
## [4933] Cooking staff         Cooking staff         Laborers
## [4936] Laborers              Laborers              Sales staff
## [4939] Laborers              Laborers              Laborers
## [4942] Laborers              Medicine staff        Sales staff
## [4945] Private service staff Sales staff           High skill tech staff
## [4948] Drivers               High skill tech staff Laborers
## [4951] Medicine staff        Cooking staff         Laborers
## [4954] High skill tech staff High skill tech staff High skill tech staff
## [4957] High skill tech staff High skill tech staff Laborers
## [4960] Core staff            Managers              Core staff
## [4963] Core staff            Medicine staff        Managers
## [4966] Cleaning staff        Core staff            Laborers
## [4969] Core staff            Medicine staff        Medicine staff
## [4972] Medicine staff        Cleaning staff        Sales staff
## [4975] Laborers              Medicine staff        Cleaning staff
## [4978] Drivers               Medicine staff        Medicine staff
## [4981] Sales staff           Cooking staff         Laborers
## [4984] Sales staff           High skill tech staff Sales staff
## [4987] Medicine staff        Managers              Managers
## [4990] Medicine staff        Drivers               Laborers
## [4993] Medicine staff        Laborers              Cooking staff
## [4996] Managers              Laborers              Core staff
## [4999] Core staff            Core staff            Cleaning staff
## [5002] High skill tech staff Cleaning staff        High skill tech staff
## [5005] High skill tech staff Managers              Managers
## [5008] Managers              Drivers               Sales staff
## [5011] Laborers              Sales staff           Sales staff
## [5014] Sales staff           Sales staff           Managers
## [5017] Medicine staff        Core staff            Core staff
## [5020] Sales staff           Security staff        Managers
```

```
##   [5023] Laborers              High skill tech staff Laborers
##   [5026] Laborers              Managers              Core staff
##   [5029] Medicine staff        Accountants           Medicine staff
##   [5032] Laborers              Medicine staff        Laborers
##   [5035] Drivers               Laborers              Laborers
##   [5038] Managers              Laborers              Core staff
##   [5041] Sales staff           Managers              Sales staff
##   [5044] Drivers               Medicine staff        IT staff
##   [5047] Laborers              Drivers               Cooking staff
##   [5050] Laborers              Laborers              Laborers
##   [5053] Laborers              High skill tech staff Cleaning staff
##   [5056] Sales staff           Laborers              Drivers
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##   [5083] Core staff            Core staff            Core staff
##   [5086] Medicine staff        Medicine staff        Medicine staff
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##   [5092] High skill tech staff Sales staff           Sales staff
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##   [5101] Secretaries           Cooking staff         Medicine staff
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##   [5113] Managers              Managers              Core staff
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##   [5179] Core staff            Core staff            Core staff
##   [5182] Core staff            Core staff            Core staff
```

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##   [5242] Laborers              Laborers              Managers
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##   [5248] Managers              Managers              Sales staff
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##   [5305] Security staff        Security staff        Security staff
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```

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## [5356] Medicine staff        Core staff        Core staff
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## [5500] Drivers               Drivers           Drivers
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## [5506] Core staff            Core staff        Core staff
```

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## [5569] Managers             Security staff       Security staff
## [5572] Security staff       Security staff       Security staff
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## [5578] High skill tech staff High skill tech staff High skill tech staff
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## [5605] Managers             Private service staff Private service staff
## [5608] Private service staff Private service staff Private service staff
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## [5656] High skill tech staff High skill tech staff Medicine staff
## [5659] Medicine staff       Medicine staff       Medicine staff
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## [5665] Managers             Core staff           Core staff
## [5668] Sales staff          Sales staff          Sales staff
```

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##  [5677] Managers             Managers           Managers
##  [5680] Laborers             Laborers           Laborers
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##  [5689] Medicine staff       Medicine staff     Medicine staff
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##  [5716] Managers             Medicine staff     Core staff
##  [5719] Core staff           Core staff         Sales staff
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##  [5803] High skill tech staff High skill tech staff Sales staff
##  [5806] Sales staff          Sales staff        Sales staff
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##  [5824] Drivers              Drivers            Drivers
##  [5827] Managers             Managers           Managers
##  [5830] Managers             Managers           Managers
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259

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## [5992] Laborers            Laborers               Laborers
```

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## [6136] High skill tech staff High skill tech staff High skill tech staff
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```

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```

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## [6442] Core staff           Core staff        Core staff
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```

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## [6574] Core staff              Core staff              Core staff
## [6577] Managers                Managers                Laborers
## [6580] Laborers                Security staff          Security staff
## [6583] Cooking staff           Cooking staff           Cooking staff
## [6586] Cooking staff           Cooking staff           Drivers
## [6589] Drivers                 Drivers                 Drivers
## [6592] Core staff              Core staff              Core staff
## [6595] Core staff              Core staff              Core staff
## [6598] Core staff              Waiters/barmen staff    Waiters/barmen staff
## [6601] Waiters/barmen staff    Waiters/barmen staff    Waiters/barmen staff
## [6604] Waiters/barmen staff    Waiters/barmen staff    Waiters/barmen staff
## [6607] Cleaning staff          Cleaning staff          Sales staff
## [6610] Sales staff             Sales staff             Sales staff
## [6613] Sales staff             Laborers                Private service staff
## [6616] Private service staff Private service staff Sales staff
## [6619] Sales staff             Sales staff             Sales staff
## [6622] Accountants             Managers                Managers
## [6625] Managers                Managers                Managers
## [6628] Waiters/barmen staff    Laborers                Laborers
## [6631] Core staff              Sales staff             Sales staff
## [6634] Accountants             Accountants             Accountants
## [6637] Accountants             Accountants             Accountants
## [6640] Accountants             Accountants             Accountants
```

```
## [6643] Accountants          Laborers            Laborers
## [6646] Laborers             Laborers            Laborers
## [6649] Laborers             Laborers            Laborers
## [6652] Laborers             Laborers            Drivers
## [6655] Drivers              Drivers             Drivers
## [6658] Low-skill Laborers   Laborers            Laborers
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## [6667] Accountants          Accountants         Accountants
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## [6676] Laborers             Laborers            Laborers
## [6679] Laborers             Core staff          Accountants
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## [6688] Core staff           Core staff          Core staff
## [6691] Core staff           Core staff          Laborers
## [6694] Laborers             Cooking staff       Cooking staff
## [6697] Cooking staff        Cooking staff       Cooking staff
## [6700] Cooking staff        Cooking staff       Cooking staff
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## [6709] Drivers              Drivers             Drivers
## [6712] Drivers              Managers            Drivers
## [6715] Drivers              Drivers             Medicine staff
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## [6736] Medicine staff       Medicine staff      Sales staff
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## [6757] Medicine staff       Medicine staff      Medicine staff
## [6760] Medicine staff       Medicine staff      Medicine staff
## [6763] High skill tech staff High skill tech staff Managers
## [6766] Core staff           Laborers            Medicine staff
## [6769] Medicine staff       Managers            Drivers
## [6772] Managers             Private service staff Drivers
## [6775] Cooking staff        Laborers            Medicine staff
## [6778] Waiters/barmen staff Waiters/barmen staff Laborers
## [6781] Laborers             Laborers            Laborers
## [6784] Laborers             Laborers            Laborers
## [6787] Cooking staff        Cooking staff       Sales staff
## [6790] Core staff           Core staff          Security staff
## [6793] Security staff       Core staff          Drivers
## [6796] Laborers             Laborers            Laborers
## [6799] Laborers             Sales staff         Core staff
## [6802] Managers             Managers            Managers
```

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## [6814] Laborers              Laborers              Managers
## [6817] Managers              Drivers               Core staff
## [6820] Managers              Drivers               Laborers
## [6823] Managers              Laborers              Sales staff
## [6826] Laborers              Laborers              Laborers
## [6829] Sales staff           Secretaries           Drivers
## [6832] Laborers              Sales staff           Drivers
## [6835] Sales staff           Laborers              Cleaning staff
## [6838] Medicine staff        Medicine staff        Sales staff
## [6841] Accountants           Drivers               Cleaning staff
## [6844] Security staff        Managers              Managers
## [6847] Managers              Core staff            Drivers
## [6850] Cleaning staff        Medicine staff        Medicine staff
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## [6862] Laborers              Laborers              Drivers
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## [6877] Sales staff           High skill tech staff High skill tech staff
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## [6892] Drivers               Managers              Medicine staff
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## [6901] Drivers               Private service staff Cooking staff
## [6904] Sales staff           Medicine staff        Laborers
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## [6910] High skill tech staff High skill tech staff Laborers
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## [6916] Laborers              Laborers              Laborers
## [6919] Sales staff           Laborers              Sales staff
## [6922] Core staff            Managers              High skill tech staff
## [6925] Managers              Cleaning staff        Cleaning staff
## [6928] Laborers              Laborers              Drivers
## [6931] Core staff            Core staff            Managers
## [6934] Managers              Managers              Accountants
## [6937] Accountants           Accountants           Laborers
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## [6943] Laborers              Accountants           Core staff
## [6946] Sales staff           Drivers               Drivers
## [6949] Secretaries           Secretaries           Cleaning staff
## [6952] Cooking staff         Laborers              Laborers
## [6955] Cooking staff         Cooking staff         Sales staff
## [6958] Managers              Private service staff Private service staff
## [6961] Sales staff           Sales staff           Cleaning staff
## [6964] Laborers              Sales staff           Drivers
```

266

```
## [6967] Cleaning staff          Managers             Managers
## [6970] Medicine staff          Medicine staff       Cleaning staff
## [6973] Core staff              Drivers              Sales staff
## [6976] Security staff          Laborers             Laborers
## [6979] Accountants             Security staff       Managers
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## [6994] Laborers                Security staff       Security staff
## [6997] Accountants             Sales staff          Cleaning staff
## [7000] High skill tech staff Laborers              High skill tech staff
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## [7009] Cleaning staff          Drivers              Drivers
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## [7018] Cleaning staff          Accountants          Managers
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## [7027] Security staff          Medicine staff       Cleaning staff
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## [7051] Cooking staff           Sales staff          Sales staff
## [7054] Drivers                 Cooking staff        Private service staff
## [7057] Private service staff Laborers              Laborers
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## [7063] Core staff              Core staff           Core staff
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## [7069] Accountants             Managers             Core staff
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## [7081] Laborers                Laborers             Core staff
## [7084] Managers                Secretaries          Managers
## [7087] Cleaning staff          Laborers             Cleaning staff
## [7090] Medicine staff          Laborers             Laborers
## [7093] Laborers                Laborers             Laborers
## [7096] Laborers                Laborers             Laborers
## [7099] Laborers                Drivers              Drivers
## [7102] Drivers                 Drivers              Drivers
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## [7111] Drivers                 Drivers              Drivers
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## [7117] Security staff          Sales staff          Waiters/barmen staff
## [7120] High skill tech staff High skill tech staff High skill tech staff
## [7123] High skill tech staff Laborers              Accountants
## [7126] Laborers                Managers             Managers
```

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## [7138] Core staff            Core staff            Core staff
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## [7147] Drivers               Drivers               Sales staff
## [7150] Sales staff           Sales staff           Sales staff
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## [7156] Sales staff           Sales staff           Sales staff
## [7159] Sales staff           Sales staff           Sales staff
## [7162] Sales staff           Sales staff           Sales staff
## [7165] Sales staff           Managers              Managers
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## [7171] Sales staff           Sales staff           Sales staff
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## [7189] Sales staff           Core staff            Core staff
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## [7228] Drivers               Drivers               Drivers
## [7231] Drivers               Cleaning staff        Cleaning staff
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## [7285] Laborers              Laborers              Core staff
## [7288] Laborers              Core staff            Cleaning staff
```

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## [7297] Laborers              Laborers              Sales staff
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## [7312] Laborers              Accountants           Accountants
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## [7330] Laborers              Core staff            Core staff
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## [7375] Cooking staff         Cooking staff         Cooking staff
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## [7384] Core staff            Core staff            Sales staff
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## [7390] Sales staff           Sales staff           Sales staff
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## [7429] Medicine staff        Medicine staff        Cleaning staff
## [7432] Cleaning staff        Cleaning staff        Cleaning staff
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## [7441] Laborers              Laborers              Laborers
## [7444] Core staff            Core staff            Core staff
## [7447] Sales staff           Laborers              Laborers
## [7450] Laborers              Core staff            Core staff
```

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## [7462] Cleaning staff          Cleaning staff          Cleaning staff
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## [7471] Sales staff             Sales staff             Drivers
## [7474] Drivers                 Drivers                 Drivers
## [7477] Drivers                 Drivers                 Drivers
## [7480] Drivers                 Drivers                 Drivers
## [7483] Drivers                 Drivers                 Drivers
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## [7489] Medicine staff          Medicine staff          Medicine staff
## [7492] Laborers                Laborers                Laborers
## [7495] Laborers                Laborers                Accountants
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## [7501] Accountants             Accountants             Cooking staff
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## [7516] Laborers                Laborers                High skill tech staff
## [7519] Managers                Managers                Sales staff
## [7522] Managers                Managers                Sales staff
## [7525] Sales staff             Managers                Secretaries
## [7528] Sales staff             Sales staff             Sales staff
## [7531] Sales staff             Medicine staff          Medicine staff
## [7534] Cleaning staff          Cleaning staff          Cleaning staff
## [7537] Drivers                 Drivers                 Drivers
## [7540] Drivers                 HR staff                HR staff
## [7543] HR staff                HR staff                HR staff
## [7546] Laborers                Laborers                Laborers
## [7549] Laborers                Laborers                Laborers
## [7552] Laborers                Laborers                Laborers
## [7555] Laborers                Core staff              Accountants
## [7558] Accountants             Accountants             Laborers
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## [7564] Laborers                Laborers                High skill tech staff
## [7567] High skill tech staff Managers                Sales staff
## [7570] Sales staff             Sales staff             Sales staff
## [7573] Sales staff             Waiters/barmen staff  Waiters/barmen staff
## [7576] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
## [7579] Waiters/barmen staff  Security staff          Security staff
## [7582] Security staff          Security staff          Laborers
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## [7588] Laborers                Laborers                Laborers
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## [7597] Managers                Managers                Managers
## [7600] Managers                Managers                Managers
## [7603] Cooking staff           Cleaning staff          Cleaning staff
## [7606] Drivers                 Drivers                 Drivers
## [7609] Security staff          High skill tech staff High skill tech staff
## [7612] High skill tech staff High skill tech staff High skill tech staff
```

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##   [7615] High skill tech staff High skill tech staff Sales staff
##   [7618] Sales staff          Sales staff          Sales staff
##   [7621] Sales staff          Sales staff          Sales staff
##   [7624] Sales staff          Sales staff          Sales staff
##   [7627] Sales staff          Sales staff          Core staff
##   [7630] Sales staff          Sales staff          Sales staff
##   [7633] Sales staff          Sales staff          Sales staff
##   [7636] Security staff       Security staff       Laborers
##   [7639] Laborers             Laborers             Laborers
##   [7642] Laborers             Laborers             Laborers
##   [7645] Laborers             Laborers             Laborers
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##   [7654] Cooking staff        Cooking staff        Cooking staff
##   [7657] Cooking staff        Cooking staff        Cooking staff
##   [7660] Cooking staff        Cooking staff        Cooking staff
##   [7663] Private service staff Laborers            Laborers
##   [7666] Laborers             Laborers             Core staff
##   [7669] Core staff           Laborers             Laborers
##   [7672] Laborers             Laborers             Laborers
##   [7675] Sales staff          Sales staff          Medicine staff
##   [7678] Security staff       Security staff       Security staff
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##   [7684] Security staff       Security staff       Security staff
##   [7687] Sales staff          Sales staff          Sales staff
##   [7690] Sales staff          Sales staff          Sales staff
##   [7693] High skill tech staff High skill tech staff High skill tech staff
##   [7696] Sales staff          Sales staff          Sales staff
##   [7699] Sales staff          Security staff       Security staff
##   [7702] Security staff       Cooking staff        Cooking staff
##   [7705] Cooking staff        Cooking staff        Cooking staff
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##   [7714] Cooking staff        Cooking staff        Sales staff
##   [7717] Cooking staff        Cooking staff        Waiters/barmen staff
##   [7720] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
##   [7723] Core staff           Core staff           Core staff
##   [7726] Laborers             Laborers             Laborers
##   [7729] Laborers             Laborers             High skill tech staff
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##   [7741] IT staff             Core staff           Sales staff
##   [7744] High skill tech staff Cleaning staff      Laborers
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##   [7750] Core staff           Managers             Drivers
##   [7753] Managers             Managers             Accountants
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##   [7759] Managers             Accountants          Managers
##   [7762] Managers             Accountants          Security staff
##   [7765] Managers             Laborers             Laborers
##   [7768] Laborers             Managers             Core staff
##   [7771] Cleaning staff       Managers             Laborers
##   [7774] Sales staff          Sales staff          Laborers
```

```
## [7777] High skill tech staff Core staff            Core staff
## [7780] Private service staff Drivers               Sales staff
## [7783] Core staff           High skill tech staff Core staff
## [7786] Security staff       Drivers               Drivers
## [7789] High skill tech staff Medicine staff        Laborers
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## [7795] Sales staff         Sales staff           Laborers
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## [7807] Core staff          Sales staff           Managers
## [7810] High skill tech staff Drivers               Core staff
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## [7816] Medicine staff      Medicine staff        Medicine staff
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## [7828] Private service staff Drivers               Medicine staff
## [7831] Laborers            Sales staff           Security staff
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## [7837] Sales staff         Laborers              Drivers
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## [7852] Laborers            Laborers              High skill tech staff
## [7855] High skill tech staff High skill tech staff Drivers
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## [7861] Managers            Managers              Managers
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## [7897] Core staff          Medicine staff        Managers
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## [7903] High skill tech staff Sales staff           Sales staff
## [7906] Sales staff         Core staff            Laborers
## [7909] High skill tech staff Drivers               Core staff
## [7912] Accountants         Laborers              Laborers
## [7915] Laborers            Laborers              Laborers
## [7918] Laborers            Laborers              High skill tech staff
## [7921] High skill tech staff Core staff            Core staff
## [7924] Core staff          High skill tech staff High skill tech staff
## [7927] Core staff          High skill tech staff High skill tech staff
## [7930] Core staff          Laborers              Private service staff
## [7933] Private service staff Private service staff Private service staff
## [7936] Private service staff Private service staff Sales staff
```

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## [7939] Laborers              Laborers              Laborers
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## [7948] Core staff            Core staff            Medicine staff
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## [7954] Drivers               Drivers               Drivers
## [7957] Laborers              Laborers              Laborers
## [7960] Managers              High skill tech staff Laborers
## [7963] Sales staff           Managers              Managers
## [7966] Laborers              Laborers              Laborers
## [7969] Laborers              Laborers              Laborers
## [7972] Core staff            Core staff            Core staff
## [7975] Core staff            Core staff            Core staff
## [7978] Private service staff Cleaning staff        Laborers
## [7981] Laborers              Managers              Managers
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## [7990] Managers              Managers              Managers
## [7993] Managers              High skill tech staff Cleaning staff
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## [8002] Cooking staff         Laborers              Laborers
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## [8068] Managers              Private service staff Private service staff
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## [8080] Managers              Medicine staff        Drivers
## [8083] Drivers               Laborers              Cooking staff
## [8086] Cooking staff         Cooking staff         Managers
## [8089] Managers              Managers              Managers
## [8092] Managers              Managers              Managers
## [8095] Managers              Core staff            Core staff
## [8098] Core staff            Core staff            Core staff
```

```
##   [8101] Core staff            Core staff           Core staff
##   [8104] Core staff            Laborers             Laborers
##   [8107] Cleaning staff        High skill tech staff High skill tech staff
##   [8110] High skill tech staff High skill tech staff High skill tech staff
##   [8113] High skill tech staff High skill tech staff Medicine staff
##   [8116] Low-skill Laborers    Medicine staff       Medicine staff
##   [8119] Medicine staff        Medicine staff       Core staff
##   [8122] Core staff            Core staff           Core staff
##   [8125] Managers              Medicine staff       Laborers
##   [8128] Cleaning staff        Cleaning staff       Sales staff
##   [8131] High skill tech staff High skill tech staff High skill tech staff
##   [8134] High skill tech staff High skill tech staff Sales staff
##   [8137] Sales staff           Sales staff          Sales staff
##   [8140] Sales staff           Sales staff          Sales staff
##   [8143] High skill tech staff Laborers             Laborers
##   [8146] Laborers              Laborers             Laborers
##   [8149] Managers              Core staff           Managers
##   [8152] Managers              Sales staff          Managers
##   [8155] Cooking staff         Medicine staff       Medicine staff
##   [8158] Cooking staff         Medicine staff       Medicine staff
##   [8161] Medicine staff        Medicine staff       Laborers
##   [8164] Sales staff           Sales staff          Sales staff
##   [8167] Core staff            Core staff           Core staff
##   [8170] Core staff            Core staff           Core staff
##   [8173] Core staff            Core staff           Core staff
##   [8176] Core staff            Core staff           Core staff
##   [8179] Laborers              Laborers             Laborers
##   [8182] Managers              Core staff           Core staff
##   [8185] Cleaning staff        Accountants          Core staff
##   [8188] Core staff            Laborers             Laborers
##   [8191] Laborers              Core staff           Core staff
##   [8194] Core staff            Managers             Cleaning staff
##   [8197] Cleaning staff        Cleaning staff       Cleaning staff
##   [8200] Cleaning staff        Cleaning staff       Cleaning staff
##   [8203] Cleaning staff        Cleaning staff       Cleaning staff
##   [8206] Cleaning staff        Laborers             Laborers
##   [8209] Laborers              Laborers             Laborers
##   [8212] Core staff            Managers             Managers
##   [8215] Drivers               Drivers              Laborers
##   [8218] Laborers              Laborers             Laborers
##   [8221] Laborers              Managers             Managers
##   [8224] Core staff            Core staff           Laborers
##   [8227] Sales staff           Core staff           Core staff
##   [8230] Core staff            Laborers             Laborers
##   [8233] Laborers              Sales staff          Cleaning staff
##   [8236] Medicine staff        Drivers              Sales staff
##   [8239] Managers              Managers             Laborers
##   [8242] Core staff            Core staff           Core staff
##   [8245] Core staff            Core staff           Core staff
##   [8248] Core staff            Core staff           Core staff
##   [8251] Sales staff           Sales staff          Sales staff
##   [8254] Sales staff           Sales staff          Sales staff
##   [8257] Sales staff           Medicine staff       Medicine staff
##   [8260] Medicine staff        Medicine staff       Medicine staff
```

```
##   [8263] Medicine staff        Medicine staff        Medicine staff
##   [8266] Medicine staff        Medicine staff        Laborers
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##   [8272] Drivers               Drivers               Drivers
##   [8275] Drivers               Drivers               Laborers
##   [8278] Laborers              Laborers              Laborers
##   [8281] Laborers              Laborers              Core staff
##   [8284] Core staff            Laborers              Secretaries
##   [8287] Cooking staff         Laborers              Laborers
##   [8290] Laborers              Laborers              Realty agents
##   [8293] Realty agents         Cleaning staff        Sales staff
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##   [8299] Medicine staff        Medicine staff        Accountants
##   [8302] Managers              Cleaning staff        Sales staff
##   [8305] Managers              Managers              Managers
##   [8308] Managers              Managers              Drivers
##   [8311] Cooking staff         Cleaning staff        Cleaning staff
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##   [8320] Core staff            Drivers               Drivers
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##   [8329] Accountants           Laborers              Laborers
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##   [8341] Managers              Managers              Managers
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##   [8347] Medicine staff        Medicine staff        Medicine staff
##   [8350] Medicine staff        Medicine staff        Medicine staff
##   [8353] Medicine staff        Core staff            Core staff
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##   [8362] Core staff            Core staff            Core staff
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##   [8371] Core staff            Core staff            Managers
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##   [8377] Cleaning staff        Cleaning staff        Cleaning staff
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##   [8383] High skill tech staff High skill tech staff Sales staff
##   [8386] Sales staff           Private service staff Private service staff
##   [8389] Private service staff Private service staff Private service staff
##   [8392] Private service staff Medicine staff        Medicine staff
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##   [8404] Managers              Managers              Managers
##   [8407] Managers              Managers              Managers
##   [8410] Managers              Managers              Managers
##   [8413] Managers              Managers              Managers
##   [8416] Managers              Medicine staff        Cleaning staff
##   [8419] Laborers              Laborers              Drivers
##   [8422] Accountants           Laborers              Medicine staff
```

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## [8431] Laborers              Laborers              Laborers
## [8434] Laborers              Laborers              Core staff
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## [8443] Core staff            Core staff            Core staff
## [8446] Core staff            Core staff            Laborers
## [8449] High skill tech staff High skill tech staff High skill tech staff
## [8452] High skill tech staff High skill tech staff High skill tech staff
## [8455] High skill tech staff High skill tech staff High skill tech staff
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## [8464] Laborers              Laborers              Laborers
## [8467] Sales staff           Core staff            Core staff
## [8470] Cleaning staff        Cleaning staff        Cleaning staff
## [8473] Cleaning staff        Cleaning staff        Cleaning staff
## [8476] Cleaning staff        Cleaning staff        Laborers
## [8479] Laborers              Laborers              Laborers
## [8482] Laborers              Core staff            Core staff
## [8485] Core staff            Core staff            Core staff
## [8488] Core staff            Cooking staff         Core staff
## [8491] Core staff            Core staff            Core staff
## [8494] Core staff            Cleaning staff        Cleaning staff
## [8497] Sales staff           Waiters/barmen staff  Waiters/barmen staff
## [8500] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
## [8503] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
## [8506] Waiters/barmen staff  Medicine staff        Medicine staff
## [8509] Medicine staff        Medicine staff        Medicine staff
## [8512] Medicine staff        Medicine staff        Medicine staff
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## [8527] High skill tech staff Medicine staff        Medicine staff
## [8530] Cleaning staff        Medicine staff        Cleaning staff
## [8533] Medicine staff        Medicine staff        Private service staff
## [8536] Private service staff Private service staff Private service staff
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## [8542] Private service staff Private service staff Private service staff
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## [8548] Managers              Managers              Cleaning staff
## [8551] Security staff        Accountants           Core staff
## [8554] Accountants           Accountants           Accountants
## [8557] Accountants           Accountants           Accountants
## [8560] Accountants           Accountants           Accountants
## [8563] Accountants           Accountants           Accountants
## [8566] Accountants           Accountants           Accountants
## [8569] Accountants           Laborers              Laborers
## [8572] Laborers              Laborers              Laborers
## [8575] Laborers              Laborers              Laborers
## [8578] Sales staff           Sales staff           Sales staff
## [8581] Sales staff           Sales staff           Sales staff
## [8584] Core staff            Core staff            Core staff
```

```
##   [8587] Core staff              Core staff             Medicine staff
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##   [8593] Laborers                Cleaning staff         Cleaning staff
##   [8596] Drivers                 Managers               Core staff
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##   [8602] Drivers                 Drivers                Drivers
##   [8605] Sales staff             High skill tech staff  Core staff
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##   [8614] Sales staff             Sales staff            Sales staff
##   [8617] Sales staff             Sales staff            Sales staff
##   [8620] Sales staff             Medicine staff         Medicine staff
##   [8623] Waiters/barmen staff    Waiters/barmen staff   Laborers
##   [8626] Laborers                Cooking staff          Core staff
##   [8629] Sales staff             Cooking staff          Sales staff
##   [8632] Laborers                Laborers               Laborers
##   [8635] Laborers                Core staff             Medicine staff
##   [8638] Medicine staff          Laborers               Sales staff
##   [8641] Core staff              High skill tech staff  Medicine staff
##   [8644] Medicine staff          Core staff             Private service staff
##   [8647] Drivers                 Laborers               Security staff
##   [8650] Sales staff             Core staff             Laborers
##   [8653] Drivers                 Cleaning staff         Laborers
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##   [8662] Sales staff             Accountants            Accountants
##   [8665] Managers                High skill tech staff  Laborers
##   [8668] Managers                Managers               Managers
##   [8671] Core staff              Laborers               Accountants
##   [8674] Medicine staff          Medicine staff         Laborers
##   [8677] Laborers                Laborers               Laborers
##   [8680] Laborers                Laborers               Laborers
##   [8683] Laborers                Laborers               Laborers
##   [8686] Laborers                Laborers               Laborers
##   [8689] Laborers                Core staff             Laborers
##   [8692] Laborers                Laborers               Laborers
##   [8695] Cooking staff           Medicine staff         Medicine staff
##   [8698] Laborers                Laborers               Cooking staff
##   [8701] Cooking staff           Laborers               Laborers
##   [8704] Laborers                Laborers               Laborers
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##   [8710] Laborers                Laborers               Laborers
##   [8713] Laborers                Laborers               Drivers
##   [8716] Drivers                 Drivers                Drivers
##   [8719] Drivers                 Cooking staff          Cooking staff
##   [8722] Cooking staff           Laborers               Laborers
##   [8725] Laborers                Laborers               Medicine staff
##   [8728] Medicine staff          Medicine staff         Medicine staff
##   [8731] Medicine staff          Medicine staff         Cooking staff
##   [8734] Medicine staff          Cooking staff          Medicine staff
##   [8737] Cooking staff           Cooking staff          Drivers
##   [8740] Sales staff             Sales staff            Sales staff
##   [8743] Sales staff             Laborers               Drivers
##   [8746] Drivers                 Drivers                Drivers
```

```
##   [8749] Drivers               Drivers               Core staff
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##   [8755] Core staff            Core staff            Core staff
##   [8758] Core staff            Core staff            Core staff
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##   [8764] Core staff            Medicine staff        Medicine staff
##   [8767] Medicine staff        Medicine staff        Medicine staff
##   [8770] Cleaning staff        Laborers              Laborers
##   [8773] Laborers              Laborers              Laborers
##   [8776] Cooking staff         Cooking staff         Cooking staff
##   [8779] Cooking staff         Cooking staff         Cooking staff
##   [8782] Cooking staff         Cooking staff         Cooking staff
##   [8785] Cooking staff         Accountants           Sales staff
##   [8788] Accountants           Accountants           Accountants
##   [8791] Medicine staff        Core staff            Core staff
##   [8794] Core staff            Laborers              Sales staff
##   [8797] Sales staff           Sales staff           Sales staff
##   [8800] Sales staff           Sales staff           Sales staff
##   [8803] Sales staff           Sales staff           Sales staff
##   [8806] Sales staff           Sales staff           Sales staff
##   [8809] Sales staff           Sales staff           Sales staff
##   [8812] Core staff            Core staff            Core staff
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##   [8818] Laborers              Laborers              Laborers
##   [8821] Laborers              Cleaning staff        Medicine staff
##   [8824] Medicine staff        Laborers              Laborers
##   [8827] Laborers              Laborers              Sales staff
##   [8830] Core staff            Medicine staff        Medicine staff
##   [8833] Medicine staff        Managers              Managers
##   [8836] High skill tech staff High skill tech staff High skill tech staff
##   [8839] High skill tech staff Laborers              Laborers
##   [8842] Laborers              Drivers               Drivers
##   [8845] Drivers               Drivers               Drivers
##   [8848] Drivers               Core staff            Managers
##   [8851] Managers              Managers              Managers
##   [8854] Managers              Managers              Managers
##   [8857] Cleaning staff        Cleaning staff        Cleaning staff
##   [8860] Cleaning staff        Cleaning staff        Security staff
##   [8863] Security staff        Security staff        Security staff
##   [8866] Security staff        Drivers               Drivers
##   [8869] Drivers               Drivers               Drivers
##   [8872] Drivers               Drivers               Drivers
##   [8875] Drivers               Drivers               Drivers
##   [8878] Laborers              Laborers              Laborers
##   [8881] Laborers              Laborers              Laborers
##   [8884] Laborers              Laborers              Laborers
##   [8887] Laborers              Laborers              Laborers
##   [8890] High skill tech staff High skill tech staff High skill tech staff
##   [8893] High skill tech staff High skill tech staff High skill tech staff
##   [8896] Laborers              Laborers              Drivers
##   [8899] Drivers               Drivers               Drivers
##   [8902] Drivers               Medicine staff        Medicine staff
##   [8905] Medicine staff        Medicine staff        Medicine staff
##   [8908] Medicine staff        Medicine staff        Medicine staff
```

```
## [8911] Laborers          Laborers          Laborers
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## [8917] Laborers          Laborers          Laborers
## [8920] Cooking staff     Cooking staff     Sales staff
## [8923] Cooking staff     Cooking staff     Sales staff
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## [8929] Drivers           Laborers          Laborers
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## [8944] Sales staff       Sales staff       Sales staff
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## [8992] Cooking staff     Medicine staff    Cooking staff
## [8995] Cleaning staff    Cleaning staff    Cleaning staff
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## [9007] Laborers          Laborers          Laborers
## [9010] Laborers          Laborers          Laborers
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## [9049] Drivers           Drivers           Drivers
## [9052] Cleaning staff    Medicine staff    Cleaning staff
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## [9061] Cleaning staff    Cleaning staff    Cleaning staff
## [9064] Laborers          Laborers          Laborers
## [9067] Laborers          Laborers          Core staff
## [9070] Core staff        Core staff        Core staff
```

```
## [9073] Core staff             Core staff             Core staff
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## [9091] Core staff             Core staff             Cleaning staff
## [9094] Cleaning staff         Cooking staff          Cooking staff
## [9097] Medicine staff         Cooking staff          Cooking staff
## [9100] Drivers                Drivers                Drivers
## [9103] Drivers                Sales staff            Sales staff
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## [9109] Sales staff            Managers               Core staff
## [9112] High skill tech staff Managers                Managers
## [9115] Managers               Managers               Managers
## [9118] Secretaries            Secretaries            Secretaries
## [9121] Secretaries            Secretaries            Secretaries
## [9124] Secretaries            Secretaries            Secretaries
## [9127] Secretaries            Secretaries            Laborers
## [9130] Laborers               Laborers               Medicine staff
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## [9139] Cleaning staff         Cleaning staff         Cleaning staff
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## [9145] Cooking staff          Cleaning staff         Medicine staff
## [9148] Medicine staff         Laborers               Laborers
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## [9157] Managers               Managers               Managers
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## [9169] Sales staff            Sales staff            Sales staff
## [9172] High skill tech staff High skill tech staff Laborers
## [9175] Laborers               Laborers               Laborers
## [9178] Laborers               Laborers               Laborers
## [9181] Laborers               Cleaning staff         Cleaning staff
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## [9196] High skill tech staff Drivers                 Drivers
## [9199] Drivers                Laborers               Laborers
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## [9205] Drivers                Laborers               Drivers
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## [9220] Managers               Managers               Managers
## [9223] Managers               Managers               Core staff
## [9226] Core staff             Core staff             Core staff
## [9229] Core staff             Core staff             Core staff
## [9232] Core staff             Medicine staff         Sales staff
```

```
## [9235] Sales staff           Sales staff           Sales staff
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## [9241] Laborers              Laborers              Core staff
## [9244] High skill tech staff High skill tech staff High skill tech staff
## [9247] High skill tech staff High skill tech staff Core staff
## [9250] Core staff            Core staff            Core staff
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## [9307] Managers              Core staff            Core staff
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## [9316] Accountants           Accountants           Accountants
## [9319] Accountants           Accountants           Accountants
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## [9385] Sales staff           Laborers              Laborers
## [9388] Laborers              Laborers              Laborers
## [9391] Laborers              Laborers              Laborers
## [9394] Laborers              Laborers              Laborers
```

```
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## [9445] High skill tech staff High skill tech staff High skill tech staff
## [9448] High skill tech staff High skill tech staff High skill tech staff
## [9451] High skill tech staff High skill tech staff High skill tech staff
## [9454] Laborers            Laborers             High skill tech staff
## [9457] High skill tech staff High skill tech staff High skill tech staff
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## [9463] High skill tech staff Core staff           Core staff
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## [9487] Managers            Managers             Managers
## [9490] Managers            Managers             Sales staff
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## [9511] Drivers             Drivers              Drivers
## [9514] Drivers             Cleaning staff       Cleaning staff
## [9517] Cleaning staff      Laborers             Laborers
## [9520] Laborers            Laborers             Laborers
## [9523] Laborers            Laborers             Laborers
## [9526] Laborers            Laborers             Private service staff
## [9529] Private service staff Private service staff Private service staff
## [9532] Private service staff Sales staff          Sales staff
## [9535] Sales staff         Sales staff          Sales staff
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## [9547] Sales staff         Sales staff          Sales staff
## [9550] Sales staff         High skill tech staff High skill tech staff
## [9553] Managers            Managers             Managers
## [9556] High skill tech staff Managers             Managers
```

```
## [9559] Managers                 Managers                 High skill tech staff
## [9562] High skill tech staff Managers                 Laborers
## [9565] Laborers                Laborers                 Laborers
## [9568] Laborers                Laborers                 Laborers
## [9571] Laborers                Core staff               Core staff
## [9574] Core staff              Laborers                 Drivers
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## [9580] Cleaning staff          Laborers                 Laborers
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## [9637] High skill tech staff High skill tech staff Medicine staff
## [9640] Medicine staff          Medicine staff           Medicine staff
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## [9715] Sales staff             Sales staff              Sales staff
## [9718] Sales staff             Sales staff              Secretaries
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284

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##  [9976] Cooking staff         Managers             Managers
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```

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```

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## [10474] Drivers               Drivers                Laborers
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## [10519] Drivers               Drivers                Drivers
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## [10690] Managers           Managers              Managers
```

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## [10726] Cleaning staff       High skill tech staff Managers
## [10729] Drivers              Drivers              Drivers
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## [10852] Cooking staff        Cleaning staff       Cleaning staff
```

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## [12796] Sales staff          Cooking staff        Cooking staff
```

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304

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```

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```

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## [13606] Cleaning staff        Cleaning staff        Sales staff
```

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## [13927] Cooking staff         Cooking staff         Sales staff
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```

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```

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## [14254] Core staff            Core staff            Sales staff
```

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```

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```

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```

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```

```
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## [15712] Sales staff            Sales staff            Sales staff
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## [15874] Cleaning staff         High skill tech staff Managers
```

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```

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```

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## [16522] Medicine staff         Medicine staff         Medicine staff
```

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```

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```

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```

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```

329

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```

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## [18805] High skill tech staff High skill tech staff High skill tech staff
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## [18943] Managers              Managers              Managers
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## [18949] Managers              Managers              Managers
## [18952] Managers              Core staff            Core staff
```

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```

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## [19432] Laborers              High skill tech staff High skill tech staff
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```

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## [19600] Security staff       Laborers             Laborers
```

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## [19759] Cleaning staff         Cleaning staff         Cleaning staff
## [19762] Cleaning staff         Cleaning staff         Cleaning staff
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## [19915] Private service staff Private service staff Private service staff
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## [19924] Core staff            Core staff            Core staff
```

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## [20086] Cleaning staff         Cleaning staff         Core staff
```

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## [20248] Cleaning staff        Cleaning staff      Core staff
```

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```

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## [21055] Accountants          Accountants         Laborers
## [21058] Managers             Managers            Security staff
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## [21214] Core staff             Core staff            Cleaning staff
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## [21220] Laborers               Cooking staff         Core staff
```

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## [21250] Sales staff           Managers             Managers
## [21253] Managers             Core staff           Laborers
## [21256] Laborers             Laborers             Cleaning staff
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## [21310] Managers             High skill tech staff High skill tech staff
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## [21325] Managers             Sales staff          Core staff
## [21328] Laborers             Accountants          Cooking staff
## [21331] Laborers             Laborers             Laborers
## [21334] Laborers             Laborers             Laborers
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## [21349] Secretaries          Medicine staff        Medicine staff
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## [21382] Medicine staff        Medicine staff        Laborers
```

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## [21433] Laborers              Secretaries          Laborers
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## [21454] Cooking staff         Core staff           Medicine staff
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## [21544] Managers              Cooking staff        Managers
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356

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## [21706] Cooking staff    Cooking staff         Medicine staff
```

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## [21718] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
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## [21862] Cleaning staff        Medicine staff        Cleaning staff
## [21865] Cleaning staff        Cleaning staff        Laborers
## [21868] Laborers              Laborers              Laborers
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## [22027] Laborers              Managers             Managers
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## [22045] Low-skill Laborers     Low-skill Laborers     Low-skill Laborers
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## [22192] Laborers               Laborers               Accountants
```

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## [22282] Medicine staff       Medicine staff       Accountants
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## [22297] Core staff           Accountants          Core staff
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## [22330] High skill tech staff High skill tech staff Managers
## [22333] Managers             Low-skill Laborers   Low-skill Laborers
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## [22348] Sales staff          Security staff       Security staff
## [22351] Security staff       Laborers             Laborers
## [22354] Laborers             Core staff           Core staff
```

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## [22492] Cooking staff          Cooking staff         Cooking staff
## [22495] Cooking staff          Managers              Managers
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## [22504] Core staff             Core staff            Drivers
## [22507] Drivers                Drivers               Drivers
## [22510] Cleaning staff         Cleaning staff        Cleaning staff
## [22513] Cleaning staff         Accountants           Accountants
## [22516] Accountants            Accountants           Accountants
```

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## [22537] Core staff           Medicine staff       High skill tech staff
## [22540] Accountants          Accountants          Cleaning staff
## [22543] Secretaries          Secretaries          Secretaries
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## [22567] High skill tech staff High skill tech staff High skill tech staff
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## [22630] Accountants          Accountants          Accountants
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## [22636] Medicine staff       Cooking staff        Cleaning staff
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## [22645] Managers             Managers             Managers
## [22648] Managers             Managers             Managers
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## [22657] Medicine staff       Medicine staff       Medicine staff
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## [22669] Laborers             Managers             Accountants
## [22672] Accountants          Accountants          Accountants
## [22675] Accountants          Accountants          Laborers
## [22678] Laborers             Laborers             Drivers
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363

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## [22813] High skill tech staff High skill tech staff Drivers
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## [22834] Sales staff            Cooking staff          Cooking staff
## [22837] Cooking staff          Cooking staff          Core staff
## [22840] Sales staff            Cooking staff          Sales staff
```

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## [22843] Laborers             Sales staff          Sales staff
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## [22852] Managers             Managers             Laborers
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## [22858] Laborers             High skill tech staff High skill tech staff
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## [22873] Sales staff          Drivers              Core staff
## [22876] Core staff           Core staff           Core staff
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## [22891] Security staff       Security staff       Sales staff
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## [22921] Laborers             Cooking staff        Cooking staff
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## [22945] Managers             Managers             Managers
## [22948] Managers             Managers             Managers
## [22951] Managers             Cooking staff        Core staff
## [22954] Core staff           Core staff           Core staff
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## [22993] Accountants          Core staff           Core staff
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## [22999] Core staff           Core staff           Laborers
## [23002] Cooking staff        Cooking staff        Managers
```

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## [23059] Cleaning staff        Cleaning staff        High skill tech staff
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## [23158] Drivers               Drivers               Drivers
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## [23164] Drivers               Drivers               Drivers
```

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## [23299] Managers                Managers                Managers
## [23302] Managers                Managers                Managers
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## [23326] HR staff                HR staff                Core staff
```

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369

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## [24298] Core staff           Core staff           Managers
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## [24406] High skill tech staff High skill tech staff Laborers
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## [24622] Laborers               Laborers             Laborers
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## [24940] Managers               Managers            Managers
## [24943] Managers               Managers            Managers
## [24946] Managers               High skill tech staff High skill tech staff
```

```
## [24949] Drivers             Drivers              Laborers
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## [24955] Drivers             Medicine staff       Laborers
## [24958] Laborers            Accountants          Cooking staff
## [24961] Laborers            Managers             Managers
## [24964] Managers            Managers             Managers
## [24967] Managers            Managers             Managers
## [24970] Managers            Managers             Cooking staff
## [24973] Cooking staff       Cleaning staff       Core staff
## [24976] Core staff          Core staff           Core staff
## [24979] Core staff          Core staff           Core staff
## [24982] Medicine staff      Laborers             Laborers
## [24985] Drivers             Drivers              Laborers
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## [24997] Managers            Laborers             Laborers
## [25000] Laborers            Laborers             Sales staff
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## [25063] Security staff      Laborers             Laborers
## [25066] Laborers            Laborers             Laborers
## [25069] High skill tech staff High skill tech staff High skill tech staff
## [25072] High skill tech staff High skill tech staff High skill tech staff
## [25075] High skill tech staff Cleaning staff       Sales staff
## [25078] Sales staff         Private service staff Medicine staff
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## [25087] Accountants         Accountants          Accountants
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## [25093] Sales staff         Sales staff          Laborers
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## [25105] High skill tech staff High skill tech staff Laborers
## [25108] Accountants         Accountants          Laborers
```

```
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## [25114] Laborers               Laborers              Sales staff
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## [25120] Medicine staff         Sales staff           Medicine staff
## [25123] Managers               Managers              Laborers
## [25126] Laborers               Laborers              Accountants
## [25129] Accountants            Accountants           Accountants
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## [25138] Security staff         Security staff        Security staff
## [25141] Security staff         Security staff        Laborers
## [25144] Laborers               Laborers              Laborers
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## [25165] Drivers                Drivers               Drivers
## [25168] Drivers                Drivers               Laborers
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## [25177] Medicine staff         Laborers              Core staff
## [25180] High skill tech staff Laborers              Core staff
## [25183] Drivers                High skill tech staff Accountants
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## [25189] Cleaning staff         Core staff            High skill tech staff
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## [25204] Secretaries            Accountants           Drivers
## [25207] High skill tech staff Sales staff           Laborers
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## [25225] Core staff             Drivers               Sales staff
## [25228] Core staff             Laborers              Laborers
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## [25234] Core staff             Waiters/barmen staff  Waiters/barmen staff
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## [25243] Medicine staff         High skill tech staff Waiters/barmen staff
## [25246] High skill tech staff Laborers              Laborers
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## [25255] Accountants            Accountants           Accountants
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## [25261] Accountants            Accountants           Accountants
## [25264] Accountants            Accountants           Accountants
## [25267] Accountants            Accountants           Core staff
## [25270] Laborers               Security staff        Laborers
```

```
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## [25288] Laborers               Realty agents          Realty agents
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## [25306] Laborers               Laborers               Low-skill Laborers
## [25309] Low-skill Laborers     Low-skill Laborers     Low-skill Laborers
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## [25363] Cleaning staff         Cooking staff          Cleaning staff
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## [25426] Laborers               Managers               Managers
## [25429] Managers               Managers               Managers
## [25432] Managers               Managers               Managers
```

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## [25501] Managers              Managers           Medicine staff
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## [25546] Cleaning staff        Cleaning staff     Cleaning staff
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## [25555] Core staff            Core staff         Core staff
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## [25564] High skill tech staff High skill tech staff High skill tech staff
## [25567] High skill tech staff High skill tech staff Laborers
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## [25579] Managers              Laborers           Laborers
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## [25585] Drivers               Drivers            Drivers
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## [25591] Core staff            Core staff         Core staff
## [25594] Core staff            Core staff         Cleaning staff
```

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## [25627] Drivers                 Drivers             Laborers
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## [25750] Cleaning staff          Cleaning staff      Core staff
## [25753] Core staff              Core staff          Core staff
## [25756] Core staff              Laborers            Laborers
```

```
## [25759] Laborers              Managers              Waiters/barmen staff
## [25762] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
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## [25768] Sales staff           Sales staff           Laborers
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## [25774] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
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## [25846] Private service staff Private service staff Private service staff
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## [25858] Laborers              Laborers              Laborers
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## [25909] Secretaries           Secretaries           Secretaries
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## [25915] Laborers              Private service staff Cooking staff
## [25918] Drivers               Drivers               Drivers
```

```
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## [25954] Laborers              Managers              Managers
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## [25963] Core staff            High skill tech staff High skill tech staff
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## [25972] Managers              Managers              High skill tech staff
## [25975] High skill tech staff High skill tech staff Sales staff
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## [26077] Core staff            Core staff            Core staff
## [26080] Core staff            Core staff            Core staff
```

```
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## [26092] Accountants       Accountants       Laborers
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## [26239] Cooking staff     Managers          Managers
## [26242] Managers          Low-skill Laborers Low-skill Laborers
```

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## [26353] Sales staff         High skill tech staff High skill tech staff
## [26356] Drivers             Drivers             Drivers
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```

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## [26566] Sales staff            Sales staff            Sales staff
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## [26887] Laborers               Laborers           Laborers
## [26890] Laborers               Laborers           Laborers
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389

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390

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## [27373] Laborers            Laborers            Core staff
## [27376] Core staff          Core staff          Core staff
```

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## [27538] Laborers            Laborers            Laborers
```

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## [27700] Medicine staff       Laborers             Laborers
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394

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## [27853] Accountants           Accountants           Waiters/barmen staff
## [27856] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
## [27859] Waiters/barmen staff  Waiters/barmen staff  Waiters/barmen staff
## [27862] Medicine staff        Cooking staff         Cooking staff
```

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## [27919] Cleaning staff         Cleaning staff         Private service staff
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## [28018] Sales staff            Sales staff            Drivers
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## [28024] High skill tech staff High skill tech staff High skill tech staff
```

```
## [28027] High skill tech staff Security staff          Security staff
## [28030] Laborers               Security staff          Security staff
## [28033] Security staff         Laborers                Security staff
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## [28069] Medicine staff         Cleaning staff          Medicine staff
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## [28081] Core staff             Core staff              Core staff
## [28084] Core staff             Core staff              Core staff
## [28087] Core staff             High skill tech staff High skill tech staff
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## [28123] Laborers               Laborers                Core staff
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## [28129] Core staff             Secretaries             Accountants
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## [28147] Accountants            Accountants             Managers
## [28150] Managers               Managers                Accountants
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## [28156] Accountants            Accountants             Accountants
## [28159] Medicine staff         Medicine staff          Medicine staff
## [28162] Medicine staff         Medicine staff          Sales staff
## [28165] Medicine staff         Medicine staff          Medicine staff
## [28168] Medicine staff         Laborers                Laborers
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## [28174] Laborers               Laborers                Laborers
## [28177] Laborers               Laborers                Sales staff
## [28180] Sales staff            Core staff              Private service staff
## [28183] Private service staff Private service staff Core staff
## [28186] Core staff             Core staff              Sales staff
```

```
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## [28195] Medicine staff        Medicine staff        Drivers
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## [28228] Managers              Managers              Medicine staff
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## [28282] High skill tech staff High skill tech staff High skill tech staff
## [28285] High skill tech staff High skill tech staff High skill tech staff
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## [28294] Sales staff           Accountants           Accountants
## [28297] Accountants           Accountants           Accountants
## [28300] Accountants           Accountants           Cleaning staff
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## [28315] High skill tech staff Accountants           Accountants
## [28318] Sales staff           Drivers               Core staff
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## [28339] Medicine staff        Accountants           Accountants
## [28342] Core staff            Accountants           Cooking staff
## [28345] Cooking staff         Cooking staff         Cooking staff
## [28348] Cooking staff         Cooking staff         Cooking staff
```

```
## [28351] Accountants            Accountants            Accountants
## [28354] Accountants            Accountants            Security staff
## [28357] Security staff         Security staff         Security staff
## [28360] Security staff         Security staff         Security staff
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## [28429] Managers               Managers               Cooking staff
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## [28435] Cooking staff          Cooking staff          Laborers
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## [28450] Cooking staff          Sales staff            Cooking staff
## [28453] Laborers               Laborers               Laborers
## [28456] Laborers               Security staff         Security staff
## [28459] Drivers                Drivers                Drivers
## [28462] Drivers                Drivers                Drivers
## [28465] Drivers                Drivers                High skill tech staff
## [28468] High skill tech staff High skill tech staff High skill tech staff
## [28471] Cooking staff          Cooking staff          Medicine staff
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## [28501] Drivers                Drivers                Drivers
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## [28507] Drivers                Drivers                Drivers
## [28510] Drivers                Cleaning staff         Medicine staff
```

```
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## [28516] Laborers              Medicine staff         Medicine staff
## [28519] Medicine staff         Medicine staff         Medicine staff
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## [28570] Managers              Managers               Core staff
## [28573] Core staff            Core staff             Core staff
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## [28603] Sales staff           Sales staff            Sales staff
## [28606] High skill tech staff High skill tech staff High skill tech staff
## [28609] High skill tech staff Sales staff            Sales staff
## [28612] Sales staff           Sales staff            Sales staff
## [28615] High skill tech staff High skill tech staff Core staff
## [28618] Sales staff           Sales staff            Sales staff
## [28621] Sales staff           Security staff         Security staff
## [28624] Security staff         Security staff         Laborers
## [28627] Laborers              Laborers               Laborers
## [28630] Laborers              Laborers               Medicine staff
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## [28642] Laborers              Laborers               Laborers
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## [28648] Laborers              Drivers                Drivers
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## [28663] Sales staff           Sales staff            Medicine staff
## [28666] Sales staff           Laborers               Laborers
## [28669] Sales staff           Sales staff            Sales staff
## [28672] Sales staff           Sales staff            Sales staff
```

```
## [28675] Sales staff             Core staff             Core staff
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## [28765] Private service staff Private service staff Cooking staff
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## [28771] Laborers               Laborers               Laborers
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## [28792] Laborers               Laborers               Laborers
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## [28804] Laborers               Cleaning staff         Cleaning staff
## [28807] Laborers               Laborers               Laborers
## [28810] Laborers               Drivers                High skill tech staff
## [28813] High skill tech staff High skill tech staff Sales staff
## [28816] Sales staff             Sales staff            Laborers
## [28819] Laborers               Laborers               Laborers
## [28822] Laborers               Cooking staff          Cooking staff
## [28825] Cooking staff           Cooking staff          Cooking staff
## [28828] Cooking staff           Cooking staff          Sales staff
## [28831] Sales staff             Sales staff            Sales staff
## [28834] Sales staff             Sales staff            Sales staff
```

```
## [28837] Laborers              Laborers              Laborers
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## [28846] Drivers               Drivers               Drivers
## [28849] Drivers               Drivers               Medicine staff
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## [28861] Security staff        Drivers               Sales staff
## [28864] Sales staff           High skill tech staff Core staff
## [28867] Core staff            Laborers              Laborers
## [28870] Laborers              Laborers              Laborers
## [28873] Laborers              Laborers              Laborers
## [28876] Laborers              Laborers              Laborers
## [28879] Laborers              Laborers              Laborers
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## [28885] Sales staff           Managers              Managers
## [28888] Managers              Managers              Managers
## [28891] Managers              Managers              Managers
## [28894] Managers              Managers              Accountants
## [28897] Accountants           Accountants           Drivers
## [28900] Drivers               Drivers               Drivers
## [28903] Drivers               Drivers               High skill tech staff
## [28906] High skill tech staff High skill tech staff High skill tech staff
## [28909] High skill tech staff High skill tech staff Core staff
## [28912] Core staff            Core staff            Core staff
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## [28918] Core staff            Managers              Managers
## [28921] Drivers               Drivers               Drivers
## [28924] Laborers              Laborers              Laborers
## [28927] Laborers              Laborers              Laborers
## [28930] Laborers              Laborers              Core staff
## [28933] Core staff            Core staff            Core staff
## [28936] Laborers              Laborers              Laborers
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## [28951] Managers              Managers              Security staff
## [28954] Managers              Drivers               Laborers
## [28957] Laborers              Drivers               Laborers
## [28960] Medicine staff        High skill tech staff High skill tech staff
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## [28969] Sales staff           Sales staff           Sales staff
## [28972] Medicine staff        Medicine staff        Medicine staff
## [28975] Sales staff           Private service staff Core staff
## [28978] Laborers              Laborers              Drivers
## [28981] Drivers               Cooking staff         Managers
## [28984] Laborers              Sales staff           Laborers
## [28987] High skill tech staff High skill tech staff Drivers
## [28990] Drivers               Sales staff           Sales staff
## [28993] Managers              Laborers              Laborers
## [28996] Security staff        Accountants           Accountants
```

```
## [28999] Laborers             Drivers               Sales staff
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## [29005] Core staff           Drivers               Sales staff
## [29008] Laborers             Laborers              Laborers
## [29011] Laborers             High skill tech staff High skill tech staff
## [29014] Laborers             Core staff            Laborers
## [29017] Laborers             Medicine staff        Core staff
## [29020] Medicine staff       Medicine staff        Private service staff
## [29023] Cooking staff        Laborers              High skill tech staff
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## [29032] Managers             Laborers              Drivers
## [29035] Managers             Drivers               Laborers
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## [29041] Managers             Drivers               Security staff
## [29044] Cooking staff        Managers              Laborers
## [29047] Cleaning staff       Laborers              Drivers
## [29050] Laborers             High skill tech staff Cleaning staff
## [29053] Laborers             Laborers              Managers
## [29056] Laborers             Private service staff Medicine staff
## [29059] Security staff       Laborers              Laborers
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## [29068] Laborers             High skill tech staff Core staff
## [29071] Core staff           Drivers               Accountants
## [29074] Accountants          Accountants           Accountants
## [29077] Accountants          Accountants           Accountants
## [29080] Accountants          Accountants           Waiters/barmen staff
## [29083] Waiters/barmen staff Waiters/barmen staff  Drivers
## [29086] Drivers              Drivers               Drivers
## [29089] Drivers              Drivers               Drivers
## [29092] Drivers              Managers              Managers
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## [29101] Cleaning staff       Medicine staff        Medicine staff
## [29104] Medicine staff       Medicine staff        Medicine staff
## [29107] Managers             Managers              Sales staff
## [29110] Laborers             Sales staff           High skill tech staff
## [29113] High skill tech staff Drivers              Drivers
## [29116] Drivers              Drivers               Drivers
## [29119] Drivers              Drivers               Drivers
## [29122] Drivers              Sales staff           Sales staff
## [29125] Sales staff          Core staff            Sales staff
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## [29143] Laborers             Laborers              Security staff
## [29146] Laborers             Managers              Sales staff
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## [29152] Cooking staff        Cooking staff         Cooking staff
## [29155] Medicine staff       Medicine staff        Sales staff
## [29158] Sales staff          Sales staff           Sales staff
```

```
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## [29167] Drivers                Drivers             Core staff
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## [29176] Core staff             Drivers             Drivers
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## [29242] Laborers               Laborers            Sales staff
## [29245] Sales staff            Sales staff         Sales staff
## [29248] Managers               Managers            Laborers
## [29251] High skill tech staff High skill tech staff High skill tech staff
## [29254] High skill tech staff High skill tech staff High skill tech staff
## [29257] Managers               Managers            Managers
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## [29266] Sales staff            Sales staff         Cleaning staff
## [29269] Cleaning staff         Cleaning staff      Cleaning staff
## [29272] Cleaning staff         Cleaning staff      Cleaning staff
## [29275] Cleaning staff         Laborers            Laborers
## [29278] Laborers               Sales staff         Sales staff
## [29281] Sales staff            Sales staff         Laborers
## [29284] Laborers               Laborers            Laborers
## [29287] Laborers               Laborers            Laborers
## [29290] Laborers               Drivers             Drivers
## [29293] Laborers               Laborers            Laborers
## [29296] Laborers               Laborers            Managers
## [29299] Sales staff            Sales staff         Laborers
## [29302] Laborers               Laborers            Laborers
## [29305] Laborers               Waiters/barmen staff Waiters/barmen staff
## [29308] Waiters/barmen staff   Waiters/barmen staff Waiters/barmen staff
## [29311] Waiters/barmen staff   Waiters/barmen staff Waiters/barmen staff
## [29314] Cleaning staff         Cleaning staff      Core staff
## [29317] Sales staff            Sales staff         Sales staff
## [29320] Sales staff            Sales staff         Sales staff
```

```
## [29323] Laborers              Laborers              Laborers
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## [29332] Cooking staff         Drivers               Drivers
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## [29338] Drivers               Laborers              Laborers
## [29341] Laborers              Sales staff           Sales staff
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## [29353] Drivers               Laborers              Laborers
## [29356] Laborers              Low-skill Laborers    Low-skill Laborers
## [29359] Low-skill Laborers    Low-skill Laborers    Low-skill Laborers
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## [29371] Laborers              Laborers              Laborers
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## [29377] Cooking staff         High skill tech staff High skill tech staff
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## [29383] High skill tech staff High skill tech staff High skill tech staff
## [29386] High skill tech staff Laborers              Core staff
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## [29395] Laborers              Laborers              Laborers
## [29398] Drivers               Drivers               IT staff
## [29401] IT staff              Laborers              Core staff
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## [29425] Drivers               Laborers              Laborers
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## [29446] Sales staff           Cleaning staff        Cleaning staff
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## [29464] Drivers               High skill tech staff High skill tech staff
## [29467] High skill tech staff High skill tech staff High skill tech staff
## [29470] High skill tech staff Sales staff           Sales staff
## [29473] Sales staff           Sales staff           Accountants
## [29476] Accountants           Accountants           Accountants
## [29479] Accountants           Accountants           Accountants
## [29482] Security staff        Security staff        Security staff
```

```
## [29485] Core staff        Core staff        Core staff
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## [29494] Drivers           Drivers           Laborers
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## [29515] Laborers           Laborers          Drivers
## [29518] Cleaning staff     Cleaning staff    Cleaning staff
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## [29536] Cleaning staff     Drivers           Drivers
## [29539] Drivers           Drivers           Drivers
## [29542] Drivers           Accountants       Sales staff
## [29545] Accountants        Accountants       Core staff
## [29548] Laborers           Cleaning staff    Cleaning staff
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## [29554] Drivers           Drivers           Drivers
## [29557] Drivers           Drivers           Sales staff
## [29560] Sales staff        Laborers          Laborers
## [29563] Laborers           Medicine staff    Medicine staff
## [29566] Medicine staff     Medicine staff    Medicine staff
## [29569] Laborers           Cleaning staff    Cleaning staff
## [29572] Cleaning staff     Laborers          Laborers
## [29575] Laborers           Laborers          Laborers
## [29578] Laborers           Laborers          Managers
## [29581] Managers           Accountants       Sales staff
## [29584] Sales staff        Sales staff       Laborers
## [29587] Cleaning staff     Cleaning staff    Cleaning staff
## [29590] Cleaning staff     Accountants       Accountants
## [29593] Accountants        Accountants       Sales staff
## [29596] Sales staff        Sales staff       Sales staff
## [29599] Sales staff        Drivers           Drivers
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## [29611] Security staff     Security staff    Security staff
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## [29617] Sales staff        Sales staff       HR staff
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## [29626] Medicine staff     Laborers          Core staff
## [29629] Core staff        HR staff          HR staff
## [29632] HR staff           HR staff          HR staff
## [29635] HR staff           Accountants       Accountants
## [29638] Accountants        Accountants       Accountants
## [29641] Drivers           Drivers           Drivers
## [29644] Drivers           Managers          Managers
```

```
## [29647] Managers          Managers          Managers
## [29650] Core staff        Sales staff       Core staff
## [29653] Core staff        Core staff        Core staff
## [29656] Core staff        Core staff        Cleaning staff
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## [29662] Laborers          Sales staff       Cleaning staff
## [29665] Laborers          Laborers          Laborers
## [29668] Laborers          Laborers          Laborers
## [29671] Laborers          Accountants       Accountants
## [29674] Accountants       Accountants       Accountants
## [29677] Accountants       Managers          Cleaning staff
## [29680] Cleaning staff    Cleaning staff    Cleaning staff
## [29683] Cleaning staff    Cleaning staff    Cleaning staff
## [29686] Cleaning staff    Laborers          Laborers
## [29689] Laborers          Secretaries       Secretaries
## [29692] Secretaries       Secretaries       Sales staff
## [29695] Drivers           Drivers           Drivers
## [29698] Drivers           Drivers           Drivers
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## [29704] Drivers           Drivers           Laborers
## [29707] Laborers          Laborers          Laborers
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## [29716] Accountants       Drivers           Drivers
## [29719] Laborers          Laborers          Laborers
## [29722] Managers          Managers          Managers
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## [29734] Laborers          Laborers          Laborers
## [29737] Laborers          Laborers          Security staff
## [29740] Security staff    Cleaning staff    Cleaning staff
## [29743] Cleaning staff    Laborers          Cooking staff
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## [29767] Laborers          Laborers          Laborers
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## [29773] Laborers          Security staff    Security staff
## [29776] Security staff    Security staff    Security staff
## [29779] Security staff    Laborers          Laborers
## [29782] Laborers          Laborers          Laborers
## [29785] Medicine staff    Medicine staff    Cooking staff
## [29788] Cooking staff     Cooking staff     Cooking staff
## [29791] Core staff        Core staff        Core staff
## [29794] Core staff        Core staff        Core staff
## [29797] Core staff        Core staff        Core staff
## [29800] Core staff        Core staff        Core staff
## [29803] Core staff        Core staff        Core staff
## [29806] Core staff        Core staff        Core staff
```

```
## [29809] Sales staff            Sales staff            Drivers
## [29812] Drivers                Drivers                Laborers
## [29815] Laborers               Sales staff            Sales staff
## [29818] Sales staff            Managers               Sales staff
## [29821] Core staff             Laborers               Laborers
## [29824] Laborers               Laborers               Laborers
## [29827] Cleaning staff         Cleaning staff         Security staff
## [29830] Sales staff            Laborers               Laborers
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## [29851] High skill tech staff High skill tech staff High skill tech staff
## [29854] High skill tech staff High skill tech staff Drivers
## [29857] Core staff             Core staff             Core staff
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## [29878] Cooking staff          Cooking staff          Sales staff
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## [29890] Core staff             Sales staff            Laborers
## [29893] Sales staff            Sales staff            Sales staff
## [29896] Sales staff            Sales staff            Sales staff
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## [29923] Sales staff            Sales staff            Medicine staff
## [29926] Core staff             Medicine staff         Core staff
## [29929] Laborers               Laborers               Laborers
## [29932] Laborers               Managers               Managers
## [29935] Medicine staff         Medicine staff         Cleaning staff
## [29938] Cleaning staff         Managers               Core staff
## [29941] Core staff             Private service staff Private service staff
## [29944] Private service staff Core staff             Core staff
## [29947] Core staff             Core staff             Laborers
## [29950] Cleaning staff         Cleaning staff         Cleaning staff
## [29953] Cleaning staff         Cleaning staff         Laborers
## [29956] High skill tech staff Laborers               Laborers
## [29959] Laborers               Laborers               Cooking staff
## [29962] Cooking staff          Cooking staff          Cooking staff
## [29965] Cooking staff          Sales staff            Sales staff
## [29968] Sales staff            Managers               Laborers
```

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## [29974] Laborers                Laborers                Drivers
## [29977] Drivers                 Drivers                 Laborers
## [29980] Laborers                Managers                Managers
## [29983] Managers                Managers                Managers
## [29986] Managers                Managers                Managers
## [29989] Managers                Medicine staff          Medicine staff
## [29992] Medicine staff          Low-skill Laborers      Low-skill Laborers
## [29995] Low-skill Laborers      Managers                Managers
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## [30001] Sales staff             Sales staff             Sales staff
## [30004] Sales staff             Sales staff             Sales staff
## [30007] Sales staff             Sales staff             Sales staff
## [30010] Laborers                High skill tech staff High skill tech staff
## [30013] Sales staff             Sales staff             Core staff
## [30016] Core staff              Core staff              Core staff
## [30019] Core staff              Sales staff             Cleaning staff
## [30022] Core staff              Core staff              Core staff
## [30025] Core staff              Core staff              Core staff
## [30028] Cooking staff           Drivers                 Drivers
## [30031] Core staff              Core staff              Core staff
## [30034] Cleaning staff          Cleaning staff          Cleaning staff
## [30037] Cleaning staff          Cleaning staff          Cleaning staff
## [30040] Cleaning staff          Managers                Accountants
## [30043] Accountants             Core staff              Core staff
## [30046] Core staff              Core staff              Cleaning staff
## [30049] Cleaning staff          Medicine staff          Laborers
## [30052] Drivers                 Laborers                Laborers
## [30055] Laborers                Laborers                Laborers
## [30058] Laborers                Laborers                Laborers
## [30061] Laborers                Laborers                Laborers
## [30064] Laborers                Laborers                Drivers
## [30067] Laborers                Laborers                Laborers
## [30070] Core staff              Core staff              Cooking staff
## [30073] Cooking staff           Cooking staff           Cooking staff
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## [30082] Core staff              Laborers                Laborers
## [30085] Laborers                Laborers                Laborers
## [30088] Core staff              Core staff              Core staff
## [30091] Core staff              Core staff              Core staff
## [30094] Core staff              Core staff              Core staff
## [30097] Core staff              Laborers                Laborers
## [30100] Cleaning staff          Managers                Managers
## [30103] Managers                Managers                Managers
## [30106] Managers                Managers                Managers
## [30109] Managers                Managers                Managers
## [30112] High skill tech staff High skill tech staff High skill tech staff
## [30115] High skill tech staff High skill tech staff High skill tech staff
## [30118] High skill tech staff High skill tech staff High skill tech staff
## [30121] High skill tech staff High skill tech staff High skill tech staff
## [30124] Laborers                Cleaning staff          Cleaning staff
## [30127] Private service staff Private service staff Laborers
## [30130] Laborers                Laborers                Laborers
```

409

```
## [30133] Laborers             Laborers             Laborers
## [30136] Managers             Managers             Managers
## [30139] Managers             Managers             Managers
## [30142] High skill tech staff High skill tech staff High skill tech staff
## [30145] High skill tech staff Managers             Managers
## [30148] Managers             Laborers             Laborers
## [30151] Laborers             Core staff           Laborers
## [30154] Laborers             Laborers             Laborers
## [30157] Laborers             Laborers             Laborers
## [30160] Sales staff          Sales staff          Sales staff
## [30163] Sales staff          Sales staff          Sales staff
## [30166] Sales staff          Sales staff          Laborers
## [30169] Laborers             Laborers             Laborers
## [30172] Laborers             Core staff           Core staff
## [30175] Core staff           Core staff           Medicine staff
## [30178] Cooking staff        Cooking staff        Medicine staff
## [30181] Cooking staff        Cooking staff        Cleaning staff
## [30184] Medicine staff       Managers             Managers
## [30187] Laborers             Laborers             Laborers
## [30190] Laborers             Laborers             Laborers
## [30193] Laborers             Laborers             Laborers
## [30196] Drivers              Drivers              Managers
## [30199] Laborers             Laborers             Managers
## [30202] Sales staff          Sales staff          Laborers
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## [30208] Laborers             Laborers             Laborers
## [30211] Laborers             Laborers             Managers
## [30214] Managers             Managers             Managers
## [30217] Cleaning staff       Cleaning staff       Cleaning staff
## [30220] Cleaning staff       Cleaning staff       Cleaning staff
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## [30226] High skill tech staff High skill tech staff Drivers
## [30229] Drivers              Drivers              Drivers
## [30232] Drivers              Drivers              Cleaning staff
## [30235] Cleaning staff       Cleaning staff       Cleaning staff
## [30238] Cleaning staff       Cleaning staff       Accountants
## [30241] Sales staff          Accountants          High skill tech staff
## [30244] High skill tech staff High skill tech staff High skill tech staff
## [30247] High skill tech staff High skill tech staff Managers
## [30250] Managers             Managers             Managers
## [30253] Laborers             Laborers             Laborers
## [30256] Laborers             Laborers             Laborers
## [30259] Laborers             Laborers             Sales staff
## [30262] Laborers             Laborers             Laborers
## [30265] Laborers             Laborers             Laborers
## [30268] Core staff           Laborers             Laborers
## [30271] Laborers             Laborers             Laborers
## [30274] Laborers             Laborers             Sales staff
## [30277] Core staff           Core staff           Core staff
## [30280] Core staff           Core staff           Laborers
## [30283] Laborers             Laborers             Laborers
## [30286] Managers             Managers             Managers
## [30289] Managers             Managers             Managers
## [30292] Managers             Managers             Managers
```

```
## [30295] Managers              Managers              Managers
## [30298] Managers              Managers              Managers
## [30301] Core staff            Core staff            Laborers
## [30304] Laborers              Laborers              Laborers
## [30307] Laborers              Laborers              Laborers
## [30310] Managers              Managers              Private service staff
## [30313] Private service staff Medicine staff        Cleaning staff
## [30316] Cleaning staff        Laborers              Core staff
## [30319] Core staff            Core staff            Sales staff
## [30322] Core staff            Laborers              Laborers
## [30325] Laborers              Laborers              Laborers
## [30328] Managers              Managers              Core staff
## [30331] Cooking staff         Cooking staff         Cooking staff
## [30334] Cooking staff         Security staff        Security staff
## [30337] Security staff        Security staff        Security staff
## [30340] Security staff        Security staff        Security staff
## [30343] Security staff        Security staff        Core staff
## [30346] Core staff            Core staff            Core staff
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## [30352] Sales staff           Sales staff           Cleaning staff
## [30355] Cleaning staff        Managers              Laborers
## [30358] Laborers              High skill tech staff High skill tech staff
## [30361] High skill tech staff Managers              Managers
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## [30373] Laborers              Laborers              Laborers
## [30376] Laborers              Laborers              Laborers
## [30379] Laborers              Core staff            Laborers
## [30382] Laborers              Laborers              Laborers
## [30385] Laborers              Laborers              Laborers
## [30388] Laborers              Laborers              Laborers
## [30391] Laborers              Laborers              Sales staff
## [30394] Laborers              Laborers              Laborers
## [30397] Cooking staff         Cooking staff         Cooking staff
## [30400] Cooking staff         Cooking staff         Accountants
## [30403] Accountants           Sales staff           Accountants
## [30406] Secretaries           Accountants           Accountants
## [30409] Accountants           Accountants           Accountants
## [30412] Accountants           Managers              Managers
## [30415] High skill tech staff High skill tech staff High skill tech staff
## [30418] High skill tech staff High skill tech staff High skill tech staff
## [30421] Medicine staff        Medicine staff        Medicine staff
## [30424] Medicine staff        Medicine staff        Medicine staff
## [30427] Medicine staff        Laborers              Laborers
## [30430] Laborers              Laborers              Laborers
## [30433] Laborers              Laborers              Cooking staff
## [30436] Accountants           Accountants           Drivers
## [30439] Drivers               Drivers               Drivers
## [30442] Drivers               Laborers              Laborers
## [30445] Laborers              Sales staff            Sales staff
## [30448] Cleaning staff        Laborers              Managers
## [30451] Drivers               Drivers               Drivers
## [30454] Drivers               Core staff            Core staff
```

411

```
## [30457] Core staff             Core staff             Core staff
## [30460] Core staff             Core staff             Core staff
## [30463] Core staff             Core staff             Realty agents
## [30466] Realty agents          Realty agents          Realty agents
## [30469] Managers               Managers               Managers
## [30472] Managers               Realty agents          Realty agents
## [30475] Realty agents          Realty agents          Realty agents
## [30478] Realty agents          Realty agents          Realty agents
## [30481] Laborers               Laborers               Laborers
## [30484] Laborers               Laborers               Laborers
## [30487] Laborers               Laborers               Laborers
## [30490] Accountants            Accountants            Accountants
## [30493] Accountants            High skill tech staff High skill tech staff
## [30496] High skill tech staff High skill tech staff High skill tech staff
## [30499] High skill tech staff High skill tech staff High skill tech staff
## [30502] High skill tech staff Drivers                Drivers
## [30505] Managers               High skill tech staff High skill tech staff
## [30508] Accountants            Accountants            Accountants
## [30511] Accountants            Core staff             Core staff
## [30514] Core staff             Core staff             Core staff
## [30517] Core staff             Core staff             Laborers
## [30520] Laborers               Laborers               Sales staff
## [30523] Sales staff            Sales staff            Sales staff
## [30526] Sales staff            Accountants            Drivers
## [30529] Drivers                Drivers                Drivers
## [30532] Laborers               Cleaning staff         Sales staff
## [30535] Sales staff            Cleaning staff         Cleaning staff
## [30538] Cleaning staff         Cleaning staff         Cleaning staff
## [30541] Cleaning staff         Cleaning staff         Cleaning staff
## [30544] Cleaning staff         Cleaning staff         Cleaning staff
## [30547] Cleaning staff         Cleaning staff         Cleaning staff
## [30550] Cleaning staff         Cleaning staff         Cleaning staff
## [30553] Cleaning staff         Low-skill Laborers     Core staff
## [30556] Core staff             Core staff             Core staff
## [30559] Core staff             Laborers               Laborers
## [30562] Laborers               Laborers               Laborers
## [30565] Laborers               Laborers               Laborers
## [30568] Laborers               Laborers               Laborers
## [30571] Managers               Managers               Laborers
## [30574] Laborers               Laborers               Laborers
## [30577] Laborers               Laborers               Laborers
## [30580] Laborers               Sales staff            Drivers
## [30583] Drivers                IT staff               IT staff
## [30586] IT staff               IT staff               IT staff
## [30589] IT staff               Cleaning staff         Cleaning staff
## [30592] Cleaning staff         Cleaning staff         Cleaning staff
## [30595] Cleaning staff         Cleaning staff         Cleaning staff
## [30598] Cleaning staff         Cleaning staff         Cleaning staff
## [30601] Managers               Managers               Laborers
## [30604] Laborers               Laborers               Laborers
## [30607] Laborers               Managers               Managers
## [30610] Managers               Managers               High skill tech staff
## [30613] Laborers               Sales staff            Sales staff
## [30616] Sales staff            Sales staff            Sales staff
```

```
## [30619] Sales staff            Sales staff            Sales staff
## [30622] Laborers               Laborers               High skill tech staff
## [30625] High skill tech staff High skill tech staff High skill tech staff
## [30628] High skill tech staff High skill tech staff Accountants
## [30631] Accountants            Accountants            Managers
## [30634] Accountants            Cleaning staff         Cleaning staff
## [30637] Core staff             Core staff             Core staff
## [30640] Core staff             Sales staff            Sales staff
## [30643] Sales staff            Sales staff            Sales staff
## [30646] Sales staff            Sales staff            Sales staff
## [30649] Sales staff            Sales staff            Sales staff
## [30652] Sales staff            High skill tech staff Managers
## [30655] Laborers               Laborers               Laborers
## [30658] Laborers               Managers               Laborers
## [30661] Sales staff            Sales staff            Core staff
## [30664] Core staff             Core staff             Core staff
## [30667] Managers               Laborers               Laborers
## [30670] Laborers               Laborers               Laborers
## [30673] Laborers               Laborers               Laborers
## [30676] Laborers               Laborers               Laborers
## [30679] Laborers               Laborers               Laborers
## [30682] Laborers               Laborers               Laborers
## [30685] Laborers               Managers               Managers
## [30688] Managers               Managers               Low-skill Laborers
## [30691] Low-skill Laborers     Low-skill Laborers     Low-skill Laborers
## [30694] Low-skill Laborers     Low-skill Laborers     Low-skill Laborers
## [30697] Waiters/barmen staff   Waiters/barmen staff   Waiters/barmen staff
## [30700] Accountants            Accountants            Accountants
## [30703] Core staff             Core staff             Core staff
## [30706] Core staff             Core staff             Core staff
## [30709] Core staff             Core staff             Waiters/barmen staff
## [30712] Waiters/barmen staff   Waiters/barmen staff   Waiters/barmen staff
## [30715] Waiters/barmen staff   Core staff             Core staff
## [30718] Core staff             Core staff             Core staff
## [30721] Core staff             Core staff             Core staff
## [30724] Laborers               Laborers               Laborers
## [30727] Laborers               Laborers               Cleaning staff
## [30730] Cleaning staff         Cleaning staff         Cleaning staff
## [30733] Cleaning staff         Cleaning staff         Medicine staff
## [30736] Medicine staff         Medicine staff         Medicine staff
## [30739] Medicine staff         Medicine staff         Drivers
## [30742] Drivers                High skill tech staff High skill tech staff
## [30745] High skill tech staff High skill tech staff High skill tech staff
## [30748] High skill tech staff High skill tech staff High skill tech staff
## [30751] High skill tech staff High skill tech staff Managers
## [30754] Managers               Laborers               Laborers
## [30757] Laborers               Accountants            Accountants
## [30760] Managers               Core staff             Sales staff
## [30763] Sales staff            Laborers               Laborers
## [30766] Laborers               Managers               Managers
## [30769] Managers               Managers               Managers
## [30772] Managers               Managers               Managers
## [30775] Managers               Managers               Managers
## [30778] Managers               Sales staff            Medicine staff
```

413

```
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## [30784] Medicine staff        Medicine staff     Medicine staff
## [30787] Sales staff           Cooking staff      Cooking staff
## [30790] Cooking staff         Cooking staff      Cooking staff
## [30793] Core staff            Core staff         Laborers
## [30796] Managers              Managers           Managers
## [30799] Managers              Managers           Managers
## [30802] Managers              Managers           Managers
## [30805] Medicine staff        Medicine staff     Medicine staff
## [30808] Medicine staff        Medicine staff     Medicine staff
## [30811] Medicine staff        Medicine staff     Laborers
## [30814] Laborers              Laborers           Laborers
## [30817] Laborers              Laborers           Laborers
## [30820] Laborers              Laborers           Laborers
## [30823] Laborers              Laborers           Laborers
## [30826] Laborers              Sales staff        Sales staff
## [30829] Sales staff           Laborers           Laborers
## [30832] Laborers              Laborers           Laborers
## [30835] Laborers              Laborers           Laborers
## [30838] Cleaning staff        Cleaning staff     Medicine staff
## [30841] Medicine staff        Medicine staff     Medicine staff
## [30844] Medicine staff        Drivers            Managers
## [30847] Managers              Managers           Managers
## [30850] Managers              Medicine staff     Medicine staff
## [30853] Medicine staff        Medicine staff     Cooking staff
## [30856] Cooking staff         Cooking staff      Cooking staff
## [30859] Cooking staff         Cooking staff      Cooking staff
## [30862] Cooking staff         Accountants        Accountants
## [30865] Accountants           Accountants        Accountants
## [30868] Accountants           Accountants        Accountants
## [30871] Accountants           Accountants        Laborers
## [30874] Laborers              Core staff         Core staff
## [30877] Core staff            Core staff         Laborers
## [30880] Accountants           Accountants        Accountants
## [30883] Accountants           Sales staff        Sales staff
## [30886] Cleaning staff        Cleaning staff     Cleaning staff
## [30889] Cleaning staff        Cleaning staff     Cleaning staff
## [30892] Cleaning staff        Cleaning staff     Cleaning staff
## [30895] Cleaning staff        Cleaning staff     Sales staff
## [30898] Sales staff           Sales staff        Sales staff
## [30901] Sales staff           Sales staff        Sales staff
## [30904] Sales staff           Drivers            Drivers
## [30907] Drivers               Drivers            Drivers
## [30910] Drivers               Drivers            Drivers
## [30913] Sales staff           Sales staff        Medicine staff
## [30916] Medicine staff        Laborers           Sales staff
## [30919] Laborers              Laborers           Laborers
## [30922] Laborers              Laborers           Laborers
## [30925] Laborers              Laborers           Accountants
## [30928] Accountants           Accountants        Accountants
## [30931] Sales staff           Cooking staff      Cooking staff
## [30934] Cooking staff         Core staff         Core staff
## [30937] Core staff            Core staff         Core staff
## [30940] Core staff            Core staff         Core staff
```

414

```
## [30943] Core staff             Core staff             High skill tech staff
## [30946] High skill tech staff High skill tech staff High skill tech staff
## [30949] High skill tech staff High skill tech staff High skill tech staff
## [30952] High skill tech staff High skill tech staff Laborers
## [30955] Laborers              Laborers              Laborers
## [30958] Laborers              Laborers              Laborers
## [30961] Laborers              Laborers              Laborers
## [30964] Laborers              Laborers              Accountants
## [30967] Accountants           Accountants           Accountants
## [30970] Managers              Managers              Managers
## [30973] Sales staff           Managers              Managers
## [30976] Managers              Managers              Managers
## [30979] Managers              Managers              Managers
## [30982] Managers              Sales staff           Managers
## [30985] Managers              Drivers               High skill tech staff
## [30988] High skill tech staff High skill tech staff High skill tech staff
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## [31003] Managers              Managers              Managers
## [31006] Managers              Managers              Managers
## [31009] Medicine staff        Medicine staff        Medicine staff
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## [31015] Medicine staff        Medicine staff        Medicine staff
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## [31024] Sales staff           Sales staff           Sales staff
## [31027] Sales staff           Security staff        Security staff
## [31030] Laborers              Cooking staff         Cooking staff
## [31033] Cooking staff         Cooking staff         Cooking staff
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## [31039] Laborers              Laborers              Managers
## [31042] Managers              Managers              Managers
## [31045] Security staff        Security staff        Security staff
## [31048] Security staff        Drivers               Sales staff
## [31051] Medicine staff        Medicine staff        Sales staff
## [31054] Sales staff           Cleaning staff        Medicine staff
## [31057] Medicine staff        Laborers              Laborers
## [31060] Sales staff           Sales staff           Sales staff
## [31063] Sales staff           Sales staff           Laborers
## [31066] Laborers              Laborers              Core staff
## [31069] Cooking staff         Cooking staff         Cooking staff
## [31072] Medicine staff        Medicine staff        Medicine staff
## [31075] Medicine staff        High skill tech staff Security staff
## [31078] Security staff        Security staff        Security staff
## [31081] Security staff        Security staff        Laborers
## [31084] Laborers              Laborers              Laborers
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## [31093] Medicine staff        Medicine staff        Medicine staff
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## [31099] Laborers              Laborers              Laborers
## [31102] Laborers              Laborers              Laborers
```

```
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## [31255] Drivers              Drivers               Drivers
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## [31264] Medicine staff       Medicine staff        Laborers
```

```
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## [31426] High skill tech staff Drivers                Drivers
```

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## [31579] Accountants           Accountants           Drivers
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## [31585] High skill tech staff High skill tech staff Laborers
## [31588] Laborers              Laborers              Laborers
```

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## [31750] Cleaning staff        Medicine staff        Cleaning staff
```

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## [31885] High skill tech staff High skill tech staff Medicine staff
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## [31912] Cooking staff         Cleaning staff        Cleaning staff
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## [32071] Medicine staff       Core staff           Core staff
## [32074] Laborers             Laborers             Laborers
```

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```
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```

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## [32398] Core staff              Core staff              Core staff
```

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```

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427

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## [34171] High skill tech staff High skill tech staff High skill tech staff
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## [34180] Managers                Managers            Managers
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434

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## [34666] Medicine staff       Sales staff         Sales staff
```

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```

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```

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## [35677] Accountants         Core staff          Core staff
## [35680] Core staff          Core staff          Core staff
## [35683] Laborers            Laborers            Sales staff
## [35686] Sales staff         High skill tech staff High skill tech staff
## [35689] High skill tech staff High skill tech staff High skill tech staff
## [35692] High skill tech staff High skill tech staff High skill tech staff
## [35695] Core staff          Core staff          Core staff
## [35698] Core staff          Core staff          Core staff
## [35701] Cleaning staff      Cleaning staff      Cleaning staff
## [35704] Cleaning staff      Cleaning staff      Cleaning staff
## [35707] Cleaning staff      Sales staff         Sales staff
## [35710] Sales staff         Core staff          Core staff
## [35713] Core staff          Laborers            Laborers
## [35716] Laborers            Laborers            Laborers
## [35719] Cleaning staff      Laborers            Laborers
## [35722] Laborers            Medicine staff      Medicine staff
## [35725] Medicine staff      Medicine staff      Medicine staff
## [35728] Medicine staff      Medicine staff      Medicine staff
## [35731] Medicine staff      Medicine staff      Medicine staff
## [35734] Medicine staff      Medicine staff      Medicine staff
## [35737] Medicine staff      Medicine staff      Medicine staff
## [35740] Sales staff         Laborers            Laborers
## [35743] Laborers            Laborers            Laborers
## [35746] Laborers            Laborers            Laborers
## [35749] Laborers            Laborers            Laborers
## [35752] Sales staff         Sales staff         Sales staff
## [35755] Drivers             Drivers             Drivers
## [35758] Laborers            Core staff          Core staff
## [35761] Core staff          Core staff          Core staff
## [35764] Core staff          Core staff          Core staff
## [35767] Core staff          Core staff          Medicine staff
## [35770] Medicine staff      Sales staff         Sales staff
## [35773] Sales staff         Sales staff         Sales staff
## [35776] Sales staff         Sales staff         Cleaning staff
## [35779] Cleaning staff      Cleaning staff      Cleaning staff
## [35782] Cleaning staff      Managers            Managers
## [35785] Managers            Managers            Managers
## [35788] Medicine staff      Medicine staff      Medicine staff
## [35791] Medicine staff      Sales staff         Sales staff
## [35794] Sales staff         Sales staff         Sales staff
## [35797] Cleaning staff      Managers            Managers
## [35800] Laborers            Laborers            Laborers
```

```
## [35803] Laborers             Laborers             Laborers
## [35806] Laborers             Laborers             Sales staff
## [35809] Drivers              Drivers              Drivers
## [35812] Laborers             Laborers             Laborers
## [35815] Core staff           Core staff           Core staff
## [35818] Core staff           Sales staff          Sales staff
## [35821] Laborers             Laborers             Laborers
## [35824] Managers             Managers             Managers
## [35827] Managers             Managers             Managers
## [35830] Managers             Managers             Managers
## [35833] Managers             Managers             Managers
## [35836] Managers             Managers             Managers
## [35839] Managers             Managers             Managers
## [35842] Managers             Managers             Managers
## [35845] Core staff           Core staff           Core staff
## [35848] Core staff           Core staff           Sales staff
## [35851] Sales staff          Sales staff          Sales staff
## [35854] Core staff           Core staff           Core staff
## [35857] Core staff           Core staff           Core staff
## [35860] Core staff           Core staff           Laborers
## [35863] Laborers             Laborers             Laborers
## [35866] Laborers             Laborers             Laborers
## [35869] Laborers             Laborers             Laborers
## [35872] Laborers             Laborers             Laborers
## [35875] High skill tech staff High skill tech staff High skill tech staff
## [35878] High skill tech staff High skill tech staff High skill tech staff
## [35881] Core staff           Sales staff          Sales staff
## [35884] Sales staff          Sales staff          Sales staff
## [35887] Sales staff          Sales staff          Sales staff
## [35890] Sales staff          Sales staff          Sales staff
## [35893] Sales staff          Sales staff          Sales staff
## [35896] Sales staff          Sales staff          Sales staff
## [35899] Laborers             Laborers             Core staff
## [35902] Core staff           Core staff           Core staff
## [35905] Core staff           Core staff           Core staff
## [35908] Core staff           Core staff           Core staff
## [35911] High skill tech staff High skill tech staff High skill tech staff
## [35914] Accountants          Accountants          High skill tech staff
## [35917] Drivers              Drivers              Drivers
## [35920] Drivers              Security staff       Security staff
## [35923] Security staff       Security staff       Security staff
## [35926] Security staff       Managers             Managers
## [35929] Managers             Managers             Managers
## [35932] Managers             Managers             Managers
## [35935] Managers             Managers             Managers
## [35938] Managers             Managers             Managers
## [35941] Managers             Managers             Managers
## [35944] Managers             Managers             Managers
## [35947] Cleaning staff       Cleaning staff       Cleaning staff
## [35950] Drivers              Drivers              Drivers
## [35953] Drivers              Drivers              Medicine staff
## [35956] Medicine staff       Medicine staff       Medicine staff
## [35959] Medicine staff       Medicine staff       Sales staff
## [35962] Sales staff          Sales staff          Sales staff
```

```
## [35965] Sales staff            Laborers              Laborers
## [35968] Laborers               Laborers              Core staff
## [35971] Core staff             Laborers              Laborers
## [35974] Laborers               Laborers              Core staff
## [35977] Core staff             Core staff            Core staff
## [35980] Security staff         Security staff        Drivers
## [35983] Drivers                Managers              Managers
## [35986] Managers               Managers              Managers
## [35989] Accountants            Medicine staff        Medicine staff
## [35992] Medicine staff         Medicine staff        Accountants
## [35995] Laborers               Cooking staff         Cooking staff
## [35998] Cooking staff          Cooking staff         Cooking staff
## [36001] Sales staff            Sales staff           Core staff
## [36004] Core staff             Core staff            Core staff
## [36007] Core staff             Core staff            Cleaning staff
## [36010] Laborers               Sales staff           Laborers
## [36013] Laborers               Laborers              Laborers
## [36016] Medicine staff         Medicine staff        Medicine staff
## [36019] Laborers               Laborers              Laborers
## [36022] Sales staff            Sales staff           Low-skill Laborers
## [36025] Low-skill Laborers     Low-skill Laborers    Low-skill Laborers
## [36028] Low-skill Laborers     Laborers              Laborers
## [36031] Laborers               Laborers              Laborers
## [36034] Laborers               Laborers              Drivers
## [36037] Laborers               Sales staff           Sales staff
## [36040] Sales staff            Sales staff           Laborers
## [36043] Laborers               Laborers              Laborers
## [36046] Sales staff            Sales staff           Core staff
## [36049] Core staff             Core staff            Core staff
## [36052] Core staff             Core staff            Core staff
## [36055] Core staff             Laborers              Laborers
## [36058] Laborers               Laborers              Laborers
## [36061] Core staff             Core staff            Core staff
## [36064] Core staff             Core staff            Medicine staff
## [36067] Medicine staff         Medicine staff        Medicine staff
## [36070] Medicine staff         Medicine staff        Medicine staff
## [36073] Medicine staff         Laborers              Laborers
## [36076] Laborers               Laborers              Laborers
## [36079] Laborers               Laborers              Cleaning staff
## [36082] Cleaning staff         Cleaning staff        Cleaning staff
## [36085] Cleaning staff         Cleaning staff        Cleaning staff
## [36088] Cleaning staff         Cleaning staff        Cleaning staff
## [36091] Cleaning staff         Cleaning staff        Cleaning staff
## [36094] Medicine staff         Medicine staff        Medicine staff
## [36097] Core staff             Core staff            Core staff
## [36100] Core staff             Core staff            Core staff
## [36103] Cooking staff          Cooking staff         Accountants
## [36106] Drivers                High skill tech staff Laborers
## [36109] Managers               Managers              Managers
## [36112] Accountants            Managers              Laborers
## [36115] High skill tech staff  Laborers              Laborers
## [36118] Laborers               Cleaning staff        Medicine staff
## [36121] Core staff             Core staff            Low-skill Laborers
## [36124] Core staff             Laborers              Laborers
```

446

```
## [36127] Managers              Cleaning staff         Managers
## [36130] Laborers              Core staff             Laborers
## [36133] High skill tech staff Laborers               Laborers
## [36136] Laborers              Drivers                Core staff
## [36139] Drivers               Drivers                Core staff
## [36142] Accountants           Sales staff            Core staff
## [36145] Core staff            Laborers               Laborers
## [36148] Drivers               Cleaning staff         Cleaning staff
## [36151] Cleaning staff        Cleaning staff         Sales staff
## [36154] Managers              Laborers               Sales staff
## [36157] High skill tech staff Laborers               Managers
## [36160] Sales staff           Medicine staff         Cleaning staff
## [36163] Cooking staff         Core staff             Laborers
## [36166] Accountants           Accountants            Laborers
## [36169] Laborers              Drivers                Medicine staff
## [36172] Laborers              Laborers               Laborers
## [36175] Core staff            Core staff             Drivers
## [36178] Drivers               Sales staff            Laborers
## [36181] Laborers              Core staff             Laborers
## [36184] Laborers              Security staff         Drivers
## [36187] Drivers               Drivers                High skill tech staff
## [36190] Cleaning staff        Cleaning staff         Laborers
## [36193] Laborers              Medicine staff         Low-skill Laborers
## [36196] Low-skill Laborers    Laborers               Managers
## [36199] Accountants           Accountants            Sales staff
## [36202] Laborers              Laborers               Sales staff
## [36205] Cleaning staff        Cleaning staff         Cleaning staff
## [36208] Cleaning staff        Laborers               Laborers
## [36211] Laborers              High skill tech staff Cleaning staff
## [36214] Sales staff           HR staff               Laborers
## [36217] Core staff            Laborers               Laborers
## [36220] IT staff              IT staff               IT staff
## [36223] Laborers              Drivers                Drivers
## [36226] Drivers               Drivers                Core staff
## [36229] Security staff        Cleaning staff         Cooking staff
## [36232] Laborers              Drivers                Drivers
## [36235] Laborers              Laborers               Managers
## [36238] Medicine staff        Managers               Managers
## [36241] Laborers              Sales staff            Core staff
## [36244] Security staff        Core staff             Core staff
## [36247] Sales staff           Sales staff            Sales staff
## [36250] Core staff            Core staff             Waiters/barmen staff
## [36253] Laborers              Core staff             Laborers
## [36256] Laborers              Cooking staff          Sales staff
## [36259] Sales staff           Core staff             Private service staff
## [36262] Laborers              Laborers               Laborers
## [36265] Accountants           Accountants            Core staff
## [36268] Managers              High skill tech staff Cleaning staff
## [36271] Cleaning staff        Laborers               Laborers
## [36274] Laborers              Core staff             Accountants
## [36277] Managers              Sales staff            Low-skill Laborers
## [36280] Laborers              Laborers               Laborers
## [36283] Laborers              Security staff         Laborers
## [36286] Managers              Sales staff            Managers
```

```
## [36289] Managers              Core staff            Drivers
## [36292] Private service staff Laborers              Laborers
## [36295] Core staff            Laborers              Cooking staff
## [36298] Cooking staff         Sales staff           Sales staff
## [36301] Drivers               Core staff            Laborers
## [36304] Core staff            Core staff            Core staff
## [36307] Core staff            Core staff            Core staff
## [36310] Accountants           Accountants           Accountants
## [36313] Low-skill Laborers    Low-skill Laborers    Security staff
## [36316] Core staff            Security staff        Cleaning staff
## [36319] Managers              Managers              Drivers
## [36322] High skill tech staff Laborers              Laborers
## [36325] Accountants           Security staff        High skill tech staff
## [36328] Laborers              Sales staff           Drivers
## [36331] Drivers               Drivers               Drivers
## [36334] Drivers               Drivers               Drivers
## [36337] Drivers               Security staff        Core staff
## [36340] Core staff            Core staff            Drivers
## [36343] Laborers              Sales staff           Medicine staff
## [36346] High skill tech staff Laborers              Laborers
## [36349] Sales staff           Security staff        Security staff
## [36352] Sales staff           Sales staff           Cooking staff
## [36355] Cooking staff         Cleaning staff        Managers
## [36358] Managers              Drivers               Drivers
## [36361] Security staff        Laborers              Accountants
## [36364] Core staff            Core staff            Medicine staff
## [36367] Core staff            Cooking staff         Cooking staff
## [36370] Cooking staff         Cooking staff         Security staff
## [36373] Managers              Core staff            Core staff
## [36376] Core staff            Managers              Sales staff
## [36379] Sales staff           Sales staff           Sales staff
## [36382] Cleaning staff        Low-skill Laborers    Security staff
## [36385] Sales staff           Cleaning staff        Cooking staff
## [36388] Cooking staff         Cooking staff         Laborers
## [36391] Sales staff           Sales staff           Laborers
## [36394] Cooking staff         Core staff            Core staff
## [36397] High skill tech staff Cooking staff         Laborers
## [36400] Managers              Sales staff           Sales staff
## [36403] Laborers              Waiters/barmen staff  Laborers
## [36406] Medicine staff        Security staff        Medicine staff
## [36409] Medicine staff        Core staff            Core staff
## [36412] Core staff            Laborers              Managers
## [36415] Managers              High skill tech staff Managers
## [36418] High skill tech staff Cleaning staff        Managers
## [36421] Core staff            Sales staff           Managers
## [36424] Laborers              Laborers              Laborers
## [36427] Laborers              Drivers               Drivers
## [36430] Drivers               Drivers               Drivers
## [36433] Accountants           Core staff            Cooking staff
## [36436] Managers              Sales staff           Managers
## [36439] Drivers               Drivers               Medicine staff
## [36442] Laborers              Security staff        Laborers
## [36445] Laborers              Core staff            Sales staff
## [36448] Laborers              Laborers              Core staff
```

```
## [36451] Laborers              Laborers              Managers
## [36454] Medicine staff        Medicine staff        Sales staff
## [36457] Laborers
## 18 Levels: Accountants Cleaning staff Cooking staff Core staff ... Waiters/barmen staff
```

finally we get three datasets based different imputation methods: **dl_na_data**, **mf_na_data** and **mice_na_data**.

4 Feature Engineering

4.1 WOE Encoding

After running several model based on original features, we find that the positive samples(y=1) are not able to be good classified. We suppose that our model are overfitting to negative samples, because some features have too many categories, and there is a traditional variables transformation that use WOE to replace features. This is basically a technique that can be applied if we have a binary response variable.

Weight of evidence (WOE) and Information value (IV) are simple but powerful techniques to perform variable transformation and selection. It is widely used in credit scoring to measure the separation of good vs bad customers. They help to explore data and screen variables. It is also used in marketing analytics project such as customer attrition model, campaign response model etc.

- The meaning of Weight of Evidence (WOE): \ WOE is a form of encoding the original independent variable and the purpose of encoding the original independent variables is generally used to improve the prediction effect of the model and improve the intelligibility of the model. In addition to this, The premise of WOE encoding is advance grouping of specific variables.

- Steps of Calculating WOE:

1. For a continuous variable, split data into several parts.

2. Calculate the number of events and non-events in each group. For example, a binary variable has two values(0,1), we calculate the number of positive sample and negative sample with different values of the variable.

3. Calculate the percentage of events and percentage of non-events for each variable value. In the example above, percentage of events of binary variable 1(binary value is 1), represents the proportion of sample that both target(y) value and variable value are 1 to the sample that target value is 1.

$$\% of\ events(a\ variable\ type) = \frac{\#sample(target=1, variable=1)}{\#sample(target=1)}$$

and percentage of nonevents represents the proportion of sample that target(y) value is 0 and variable value are 1 to the sample that target value is 0.

$$\% of\ nonevents(a\ variable\ type) = \frac{\#sample(target=0, variable=1)}{\#sample(target=0)}$$

.

4. Calculate WOE for a variable type by taking natural log of division of percentage of non-events and percentage of events.

$$WOE = ln\frac{\% of\ nonevents}{\% of\ events}$$

- Benefits of WOE:

1. It can treat outliers. Suppose you have a continuous variable such as annual salary and extreme values are more than 500 million dollars. These values would be grouped to a class of (let's say 250-500 million dollars). Later, instead of using the raw values, we would be using WOE scores of each classes.
2. It can handle missing values as missing values can be binned separately.
3. Since WOE Transformation handles categorical variable so there is no need for dummy variables.
4. WoE transformation helps you to build strict linear relationship with log odds. Otherwise it is not easy to accomplish linear relationship using other transformation methods such as log, square-root etc. In short, if you would not use WOE transformation, you may have to try out several transformation methods to achieve this.

- The meaning of Information Value (IV): \ Information value is one of the most useful technique to select important variables in a predictive model. It helps to rank variables on the basis of their importance.

$$IV = \sum(\%of\ nonevents\ -\ \%of\ event) * WOE$$

- Important Points: \ Information value is not an optimal feature (variable) selection method when you are building a classification model other than binary logistic regression (for eg. random forest or SVM). So we only use IV to judge which categories should be combine together. For example: when we merge two categories into one categories within one feature and the IV does not change a lot, which means the distribution of feature with respect to target is not rapidly changed, we can accept this mergence.

4.1.1 Implementation

In this section, we will do features engineering based on three principles:
As for binary factor variables, we will convert them into binary numeric type for next modelling.
As for categorical variables, we will try to reduce the types of them without influence their IV.
As for continuous variables, By using **woebin** function of **scorecard** package, we will replace them with binning data.
Since we use 3 different strategies to deal with the missing data, we now have three dataset and for all the datasets we will excute the same process to finish features engineering. Using **dl_na_data** as an example.

4.1.2 Binary variables

After loading data, we inspect our factory variables as mentioned above, there are 8 factory variables, i.e. `CODE_GENDER`, `FLAG_OWN_CAR`, `FLAG_OWN_REALTY`, `NAME_INCOME_TYPE` `NAME_EDUCATION_TYPE`, `NAME_FAMILY_STATUS`, `NAME_HOUSING_TYPE`, `OCCUPATION_TYPE`, only `CODE_GENDER`, `FLAG_OWN_CAR`, `FLAG_OWN_REALTY` are binary factory variables.

```
dl_data <- read.csv2("./data/dl_na_data.csv")
final_data <- dl_data
binary_data <- final_data %>% select_if(is.factor)
glimpse(binary_data)
```

```
## Rows: 25,134
## Columns: 8
## $ CODE_GENDER         <fct> M, F, F, F, F, M, M, M, M, M, M, M, M, F, ...
## $ FLAG_OWN_CAR        <fct> Y, N, N, N, N, Y, Y, Y, Y, Y, Y, Y, Y, Y, ...
## $ FLAG_OWN_REALTY     <fct> Y, Y, Y, Y, Y, Y, Y, Y, Y, Y, Y, Y, Y, N, ...
## $ NAME_INCOME_TYPE    <fct> Working, Commercial associate, Commercial ...
## $ NAME_EDUCATION_TYPE <fct> Secondary / secondary special, Secondary /...
## $ NAME_FAMILY_STATUS  <fct> Married, Single / not married, Single / no...
## $ NAME_HOUSING_TYPE   <fct> House / apartment, House / apartment, Hous...
## $ OCCUPATION_TYPE     <fct> Security staff, Sales staff, Sales staff, ...
```

As for binary factor variables, we write a function **convert_binary_variable** to convert them into binary numeric type for next modelling. After converting, nominal values in the three variables `CODE_GENDER`, `FLAG_OWN_CAR`, `FLAG_OWN_REALTY` are replaced by values 1 or 2. As for `CODE_GENDER`, value "1" represents the original type "F" and "2" represents the original type "M". As for `FLAG_OWN_CAR` and `FLAG_OWN_REALTY`, value "1" represents the original type "N" and value "2" represents the original type "Y".

```
# function to convert binary variable into numeric.
convert_binary_variable <- function(feature) {

  # select binary banary variables.
  if (check_class(feature, "factor") & nlevels(feature) == 2) {
    levels(feature) <- seq(nlevels(feature))
```

```
    feature <- as.numeric(feature)
    return(feature)
  }
}

# convert all binary variable into binary number
converted_data <- final_data %>% mutate_if(is.factor, convert_binary_variable)

# inspect binary variables
converted_binary_data <- binary_data %>% mutate_if(is.factor, convert_binary_variable)
glimpse(converted_binary_data)
```

```
## Rows: 25,134
## Columns: 3
## $ CODE_GENDER     <dbl> 2, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 1, 1, 1...
## $ FLAG_OWN_CAR    <dbl> 2, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1...
## $ FLAG_OWN_REALTY <dbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1, 1, 2...
```

4.1.3 Categorical variables

After converting binary factor variables, five Categorical variables are remained, i.e. `NAME_INCOME_TYPE`, `NAME_EDUCATION_TYPE`, `NAME_FAMILY_STATUS`, `NAME_HOUSING_TYPE`, `OCCUPATION_TYPE`,

```
# find which variables have several values
dif_variable <- setdiff(names(final_data), names(converted_data))
dif_variable
```

```
## [1] "NAME_INCOME_TYPE"    "NAME_EDUCATION_TYPE" "NAME_FAMILY_STATUS"
## [4] "NAME_HOUSING_TYPE"   "OCCUPATION_TYPE"
```

As for `NAME_INCOME_TYPE`, we wrote the function **calc_iv** to inspect its WOE and IV.

```
calc_iv(dif_variable[1])
```

```
## [1] 0.0100533
```

```
## # A tibble: 5 x 11
##    feature val      all  good   bad   share bad_rate good_dis bad_dis
##    <chr>   <chr> <dbl> <dbl> <dbl>   <dbl>    <dbl>    <dbl>   <dbl>
## 1 NAME_I~ Work~ 15622 15361   261 6.22e-1   0.0167 0.622     0.618
## 2 NAME_I~ Comm~  7052  6933   119 2.81e-1   0.0169 0.281     0.282
## 3 NAME_I~ Stat~  2437  2408    29 9.70e-2   0.0119 0.0974    0.0687
## 4 NAME_I~ Stud~    10    10     0 3.98e-4   0        0.000405 0
## 5 NAME_I~ Pens~    13     0    13 5.17e-4   1        0        0.0308
## # ... with 2 more variables: woe <dbl>, iv <dbl>
```

We noticed that factor type `Student` and `Pensioner` are remarkably useful to determine the target. Factor `Pensioner` can be regarded as "refuse mark", as they doesn't work and have less resilient financial condition. On the other hand, `Student` can be regarded as "accept mark", perhaps because they can get finantial support from their parents. Although the two factor are relatively strange, we will not merge them into other types.

```
# analyse the details of first multi-factors variable
# found the variable "NAME_INCOME_TYPE" has 5 types of values
final_data["less_factor_income"] <- final_data %>%
  pull(dif_variable[[1]])
```

As for `NAME_EDUCSTION_TYPE`, we also inspect this variables at first.

```r
calc_iv(dif_variable[2])
```

```
## [1] 0.01043881
```

```
## # A tibble: 5 x 11
##   feature val     all  good   bad   share bad_rate good_dis bad_dis      woe
##    <chr>   <chr> <dbl> <dbl> <dbl>   <dbl>   <dbl>    <dbl>    <dbl>    <dbl>
## 1 NAME_E~ Seco~ 16808 16541   267 6.69e-1  0.0159 0.669     0.633    0.0563
## 2 NAME_E~ High~  7132  7004   128 2.84e-1  0.0179 0.283     0.303   -0.0678
## 3 NAME_E~ Inco~   993   972    21 3.95e-2  0.0211 0.0393    0.0498  -0.235
## 4 NAME_E~ Lowe~   187   181     6 7.44e-3  0.0321 0.00732   0.0142  -0.663
## 5 NAME_E~ Acad~    14    14     0 5.57e-4  0       0.000567  0        0
## # ... with 1 more variable: iv <dbl>
```

We noticed that factor `Academic degree` also can be regarded as "accept mark", `Higher education` and
`Incomplete higher` have the same distribution, so we merge them together. IV slightly decreases from
0.01043881 to **0.00935902**, which we can accpet.

```r
# analyse the details of second multi-factors variable
# found the variable "NAME_EDUCSTION_TYPE" has 5 types of values. we integrate
# "Incomplete higher" with "Higher education"
final_data["less_factor_edu"] <- final_data %>%
  pull(dif_variable[[2]]) %>%
  recode("Higher education" = "Incomplete higher")

# analyse how the IV of the variable has been changed.
calc_iv("less_factor_edu")
```

```
## [1] 0.00935902
```

```
## # A tibble: 4 x 11
##   feature val     all  good   bad   share bad_rate good_dis bad_dis      woe
##    <chr>   <chr> <dbl> <dbl> <dbl>   <dbl>   <dbl>    <dbl>    <dbl>    <dbl>
## 1 less_f~ Seco~ 16808 16541   267 6.69e-1  0.0159 0.669     0.633    0.0563
## 2 less_f~ Inco~  8125  7976   149 3.23e-1  0.0183 0.323     0.353   -0.0898
## 3 less_f~ Lowe~   187   181     6 7.44e-3  0.0321 0.00732   0.0142  -0.663
## 4 less_f~ Acad~    14    14     0 5.57e-4  0       0.000567  0        0
## # ... with 1 more variable: iv <dbl>
```

We noticed `NAME_FAMILY_STATUS` feature is relatively balanced, no need to change.

```r
# analyse the details of third multi-factors variable
calc_iv(dif_variable[3])
```

```
## [1] 0.04313712
```

```
## # A tibble: 5 x 11
##   feature val     all  good   bad  share bad_rate good_dis bad_dis     woe
##    <chr>   <chr> <dbl> <dbl> <dbl>  <dbl>   <dbl>    <dbl>    <dbl>   <dbl>
## 1 NAME_F~ Marr~ 17509 17232   277 0.697   0.0158  0.697    0.656   0.0605
## 2 NAME_F~ Sing~  3445  3362    83 0.137   0.0241  0.136    0.197  -0.369
## 3 NAME_F~ Civi~  2133  2101    32 0.0849  0.0150  0.0850   0.0758  0.114
## 4 NAME_F~ Sepa~  1467  1452    15 0.0584  0.0102  0.0588   0.0355  0.503
## 5 NAME_F~ Widow   580   565    15 0.0231  0.0259  0.0229   0.0355 -0.441
## # ... with 1 more variable: iv <dbl>
```

```r
final_data["less_factor_status"] <- final_data %>% pull(dif_variable[3])
# found this variable seems relatively balanced, no need to change.
```

We noticed the variable `NAME_HOUSING_TYPE` has 6 types of values. Factor `Co-op apartment` has the same distribution with `Office apartment`. so we merge them into one factor.

```
calc_iv(dif_variable[4])
```

```
## [1] 0.007327503
```

```
## # A tibble: 6 x 11
##   feature val      all  good   bad  share bad_rate good_dis bad_dis     woe
##   <chr>   <chr> <dbl> <dbl> <dbl>  <dbl>    <dbl>    <dbl>   <dbl>   <dbl>
## 1 NAME_H~ Hous~ 22102 21738   364 0.879    0.0165   0.880   0.863  0.0196
## 2 NAME_H~ Rent~   439   433     6 0.0175   0.0137   0.0175  0.0142  0.209
## 3 NAME_H~ Muni~   812   793    19 0.0323   0.0234   0.0321  0.0450 -0.339
## 4 NAME_H~ With~  1430  1405    25 0.0569   0.0175   0.0569  0.0592 -0.0411
## 5 NAME_H~ Co-o~   152   149     3 0.00605  0.0197   0.00603 0.00711 -0.165
## 6 NAME_H~ Offi~   199   194     5 0.00792  0.0251   0.00785 0.0118  -0.412
## # ... with 1 more variable: iv <dbl>
```

After merge `Co-op apartment` into `Office apartment`, IV slightly decreases from **0.007327503** to **0.007086979**,which we can accpet.

```
# analyse the details of fourth multi-factors variable
# found the variable "NAME_HOUSING_TYPE" has 6 types of values. we integrate
# "Co-op apartment" with "Office apartment"
final_data["less_factor_house"] <- final_data %>%
  pull(dif_variable[[4]]) %>%
  recode("Co-op apartment" = "Office apartment")

# analyse how the IV of the variable has been changed.
calc_iv("less_factor_house")
```

```
## [1] 0.007086979
```

```
## # A tibble: 5 x 11
##   feature val      all  good   bad  share bad_rate good_dis bad_dis     woe
##   <chr>   <chr> <dbl> <dbl> <dbl>  <dbl>    <dbl>    <dbl>   <dbl>   <dbl>
## 1 less_f~ Hous~ 22102 21738   364 0.879    0.0165   0.880   0.863  0.0196
## 2 less_f~ Rent~   439   433     6 0.0175   0.0137   0.0175  0.0142  0.209
## 3 less_f~ Muni~   812   793    19 0.0323   0.0234   0.0321  0.0450 -0.339
## 4 less_f~ With~  1430  1405    25 0.0569   0.0175   0.0569  0.0592 -0.0411
## 5 less_f~ Offi~   351   343     8 0.0140   0.0228   0.0139  0.0190 -0.312
## # ... with 1 more variable: iv <dbl>
```

We found the variable `NAME_HOUSING_TYPE` has too manny categories. We integrate some of them with different working status. i.e. `Cleaning staff`, `Cooking staff` can be classified as `Labor`, `Accountants`, `Core staff` can be classified as `Office`, `IT staff`, `High skilltech staff` can be classified as `higher`,which means they earn a higher salary.

```
calc_iv(dif_variable[5])
```

```
## [1] 0.08805434
```

```
## # A tibble: 18 x 11
##    feature val      all  good   bad  share bad_rate good_dis bad_dis
##    <chr>   <chr> <dbl> <dbl> <dbl>  <dbl>    <dbl>    <dbl>   <dbl>
## 1 OCCUPA~ Secu~   592   579    13 0.0236   0.0220   0.0234  0.0308
## 2 OCCUPA~ Sale~  3485  3440    45 0.139    0.0129   0.139   0.107
## 3 OCCUPA~ Acco~  1241  1218    23 0.0494   0.0185   0.0493  0.0545
## 4 OCCUPA~ Labo~  6211  6112    99 0.247    0.0159   0.247   0.235
```

```
##  5 OCCUPA~ Mana~  3012  2965   47 0.120   0.0156   0.120  0.111
##  6 OCCUPA~ Driv~  2138  2089   49 0.0851  0.0229   0.0845 0.116
##  7 OCCUPA~ Core~  3591  3517   74 0.143   0.0206   0.142  0.175
##  8 OCCUPA~ High~  1383  1353   30 0.0550  0.0217   0.0548 0.0711
##  9 OCCUPA~ Clea~   551   546    5 0.0219  0.00907  0.0221 0.0118
## 10 OCCUPA~ Priv~   344   342    2 0.0137  0.00581  0.0138 0.00474
## 11 OCCUPA~ Cook~   655   646    9 0.0261  0.0137   0.0261 0.0213
## 12 OCCUPA~ Low-~   175   167    8 0.00696 0.0457   0.00676 0.0190
## 13 OCCUPA~ Medi~  1207  1197   10 0.0480  0.00829  0.0484 0.0237
## 14 OCCUPA~ Secr~   151   149    2 0.00601 0.0132   0.00603 0.00474
## 15 OCCUPA~ Wait~   174   172    2 0.00692 0.0115   0.00696 0.00474
## 16 OCCUPA~ HR s~    85    84    1 0.00338 0.0118   0.00340 0.00237
## 17 OCCUPA~ Real~    79    79    0 0.00314 0        0.00320 0
## 18 OCCUPA~ IT s~    60    57    3 0.00239 0.05     0.00231 0.00711
## # ... with 2 more variables: woe <dbl>, iv <dbl>
```

```r
# analyse the details of fifth multi-factors variable
# found the variable "NAME_HOUSING_TYPE" has too many categories.

final_data["less_factor_work"] <- final_data %>%
  pull(dif_variable[[5]]) %>%
  recode(
    "Cleaning staff" = "Labor",
    "Cooking staff" = "Labor",
    "Drivers" = "Labor",
    "Laborers" = "Labor",
    "Low-skill Laborers" = "Labor",
    "Security staff" = "Labor",
    "Waiters/barmen staff" = "Labor"
  ) %>%
  recode(
    "Accountants" = "Office",
    "Core staff" = "Office",
    "HR staff" = "Office",
    "Medicine staff" = "Office",
    "Private service staff" = "Office",
    "Realty agents" = "Office",
    "Sales staff" = "Office",
    "Secretaries" = "Office"
  ) %>%
  recode(
    "Managers" = "higher",
    "High skill tech staff" = "higher",
    "IT staff" = "higher"
  )

# analyse how the IV of the variable has been changed.
calc_iv("less_factor_work")
```

```
## [1] 0.004820472

## # A tibble: 3 x 11
##   feature val    all  good  bad share bad_rate good_dis bad_dis    woe
##   <chr>   <chr> <dbl> <dbl> <dbl> <dbl>    <dbl>    <dbl>   <dbl>   <dbl>
## 1 less_f~ Labor 10496 10311  185 0.418   0.0176    0.417   0.438 -0.0494
```

```
## 2 less_f~ Offi~ 10183 10026    157 0.405    0.0154    0.406    0.372  0.0867
## 3 less_f~ high~  4455  4375     80 0.177    0.0180    0.177    0.190 -0.0684
## # ... with 1 more variable: iv <dbl>
```

Then encode multi-factors variables as one-hot variables.

```r
# encode multi-factors variables into one-hot
factor_data <- final_data %>%
  select(starts_with("less")) %>%
  as.data.table()
oh_data <- one_hot(factor_data, dropCols = T)

# cbind oh_data with converted_data
converted_data <- final_data %>% mutate_if(is.factor, convert_binary_variable)
converted_data <- converted_data %>% add_column(oh_data)

# print oh_data
glimpse(oh_data)
```

```
## Rows: 25,134
## Columns: 22
## $ `less_factor_edu_Academic degree`              <int> 0, 0, 0, 0, 0,...
## $ `less_factor_edu_Incomplete higher`            <int> 0, 0, 0, 0, 0,...
## $ `less_factor_edu_Lower secondary`              <int> 0, 0, 0, 0, 0,...
## $ `less_factor_edu_Secondary / secondary special` <int> 1, 1, 1, 1, 1,...
## $ `less_factor_house_House / apartment`          <int> 1, 1, 1, 1, 1,...
## $ `less_factor_house_Municipal apartment`        <int> 0, 0, 0, 0, 0,...
## $ `less_factor_house_Office apartment`           <int> 0, 0, 0, 0, 0,...
## $ `less_factor_house_Rented apartment`           <int> 0, 0, 0, 0, 0,...
## $ `less_factor_house_With parents`               <int> 0, 0, 0, 0, 0,...
## $ `less_factor_income_Commercial associate`      <int> 0, 1, 1, 1, 1,...
## $ less_factor_income_Pensioner                   <int> 0, 0, 0, 0, 0,...
## $ `less_factor_income_State servant`             <int> 0, 0, 0, 0, 0,...
## $ less_factor_income_Student                     <int> 0, 0, 0, 0, 0,...
## $ less_factor_income_Working                     <int> 1, 0, 0, 0, 0,...
## $ `less_factor_status_Civil marriage`            <int> 0, 0, 0, 0, 0,...
## $ less_factor_status_Married                     <int> 1, 0, 0, 0, 0,...
## $ less_factor_status_Separated                   <int> 0, 0, 0, 0, 0,...
## $ `less_factor_status_Single / not married`      <int> 0, 1, 1, 1, 1,...
## $ less_factor_status_Widow                       <int> 0, 0, 0, 0, 0,...
## $ less_factor_work_Labor                         <int> 1, 0, 0, 0, 0,...
## $ less_factor_work_Office                        <int> 0, 1, 1, 1, 1,...
## $ less_factor_work_higher                        <int> 0, 0, 0, 0, 0,...
```

And we discretizate the continuous variables with the help of **woebin** function from **scorecard** package. When using the **woebin** function, there is one parameter **method** that need to be configured, desiged for which method will based on to discretizate variables. **method** has two options, **tree** and **chimerge**. We choose **chimerge** because we noticed it brings better performance for modelling.

```r
# Binning continuous variable to improve performance.
dl_bin <- woebin(converted_data,
  y = "y",
  x = c("CNT_CHILDREN", "AMT_INCOME_TOTAL", "DAYS_BIRTH", "DAYS_EMPLOYED", "CNT_FAM_MEMBERS"),
  method = "chimerge"
)
```

Now we inspect the Binning variables.

The bart chart below illustrates the result of discretization for several continuous variable `CHT_CHILDREN`, this variable has been divided into 3 groups, i.e. `[-inf, 1),[1,2),[2, inf)`. The percentage of each groups is provided above each column. For example, 15908, which account for 63.3% of the total users, have been classified into the first group. In addtion to this, **#bad** and **#good** indicate the distribution of the number of risk users and normal users in these groups. The most important ratios, bad ratios, representing the proportion of "`bad`" users to "`good`" samples in each category, are shown inside of the bar. We notice the bad ratios for categories are linear, which means this binning is good.

```
# plot binning variable
plotlist <- woebin_plot(dl_bin)
plotlist[1]
```

$CNT_CHILDREN

CNT_CHILDREN (iv:0.0011)
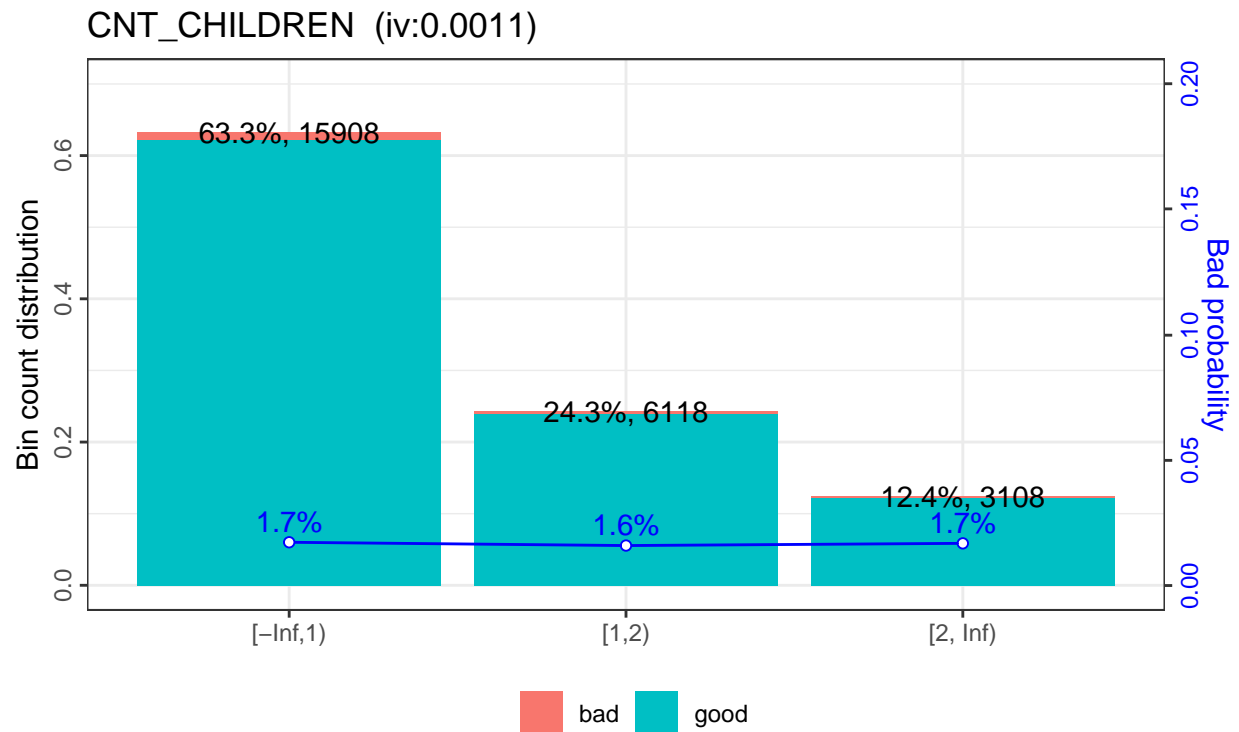
As for `AMT_INCOME_TOTAL` , we notice that it is discretizated into several categories, although the bad ratios for categories are not strictly linear, this binning has second highest IV 0.1368.

```
# plot binning variable
plotlist <- woebin_plot(dl_bin)
plotlist[2]
```

$AMT_INCOME_TOTAL

AMT_INCOME_TOTAL (iv:0.1368)
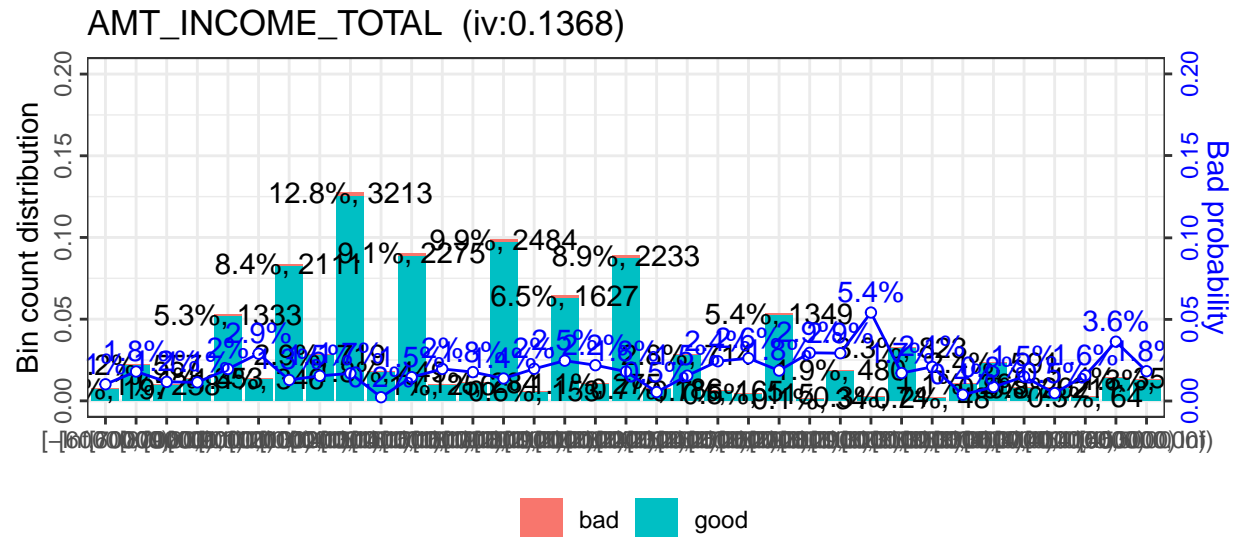
As for `DAYS_BIRTH` , we notice that it is discretizated into 7 categories, i.e. `[-inf, -19000]`,`[-19000, -175000]` etc. and the bad ratios for categories is linear, which means this binnning is good.

```
# plot binning variable
plotlist <- woebin_plot(dl_bin)
plotlist[3]
```

$DAYS_BIRTH

DAYS_BIRTH (iv:0.051)
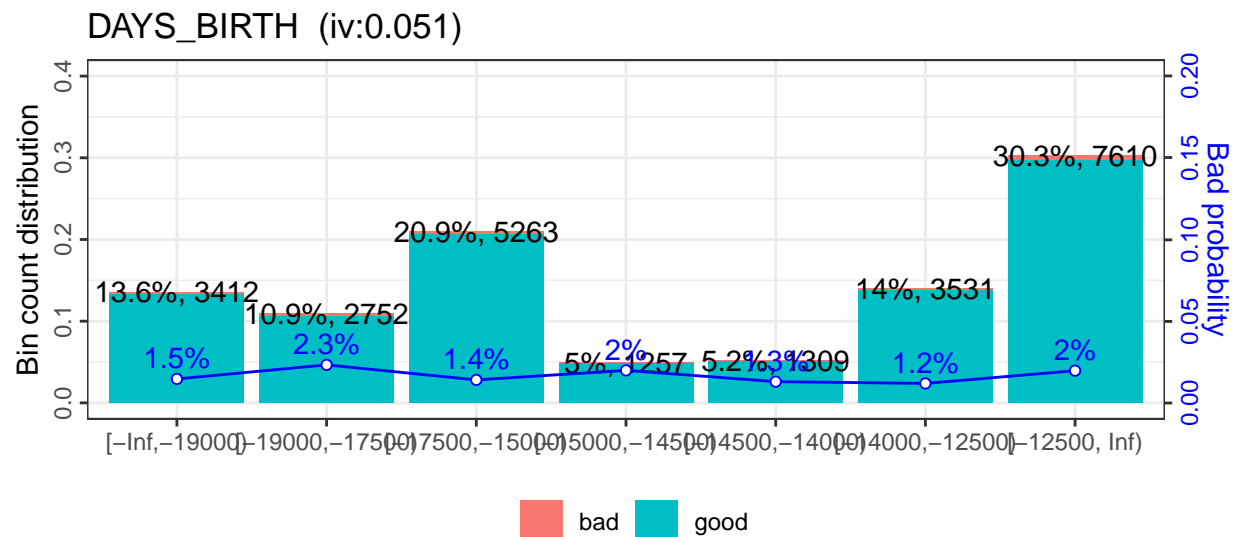
As for `DAYS_EMPLOYED` , we notice that it is discretizated into several categories, although the bad ratios for categories are not strictly linear, this binning has highest IV 0.2815.

```
# plot binning variable
plotlist <- woebin_plot(dl_bin)
plotlist[4]
```

$DAYS_EMPLOYED

DAYS_EMPLOYED (iv:0.2815)
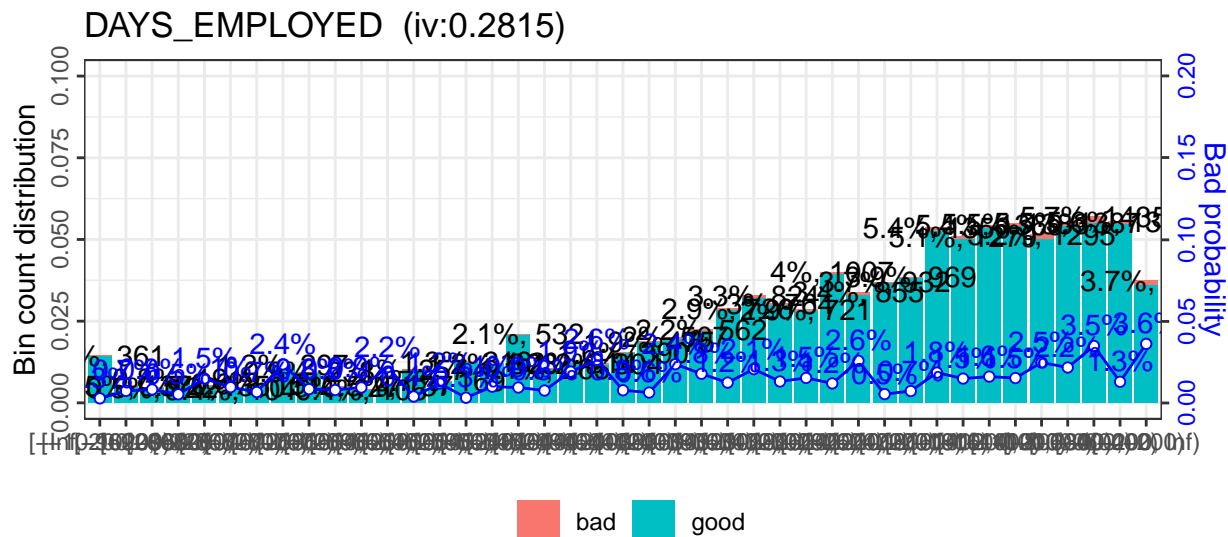
As for `CNT_FAM_MEMBERS` , we notice that it is discretizated into 4 categories, i.e. `[-inf, 2)`,`[2, 3)`,`[3, 4)` and `[4, inf)`. and the bad ratios for categories is linear, which means this binnning is good.

```
# plot binning variable
plotlist <- woebin_plot(dl_bin)
plotlist[5]
```

$CNT_FAM_MEMBERS

CNT_FAM_MEMBERS (iv:0.0062)
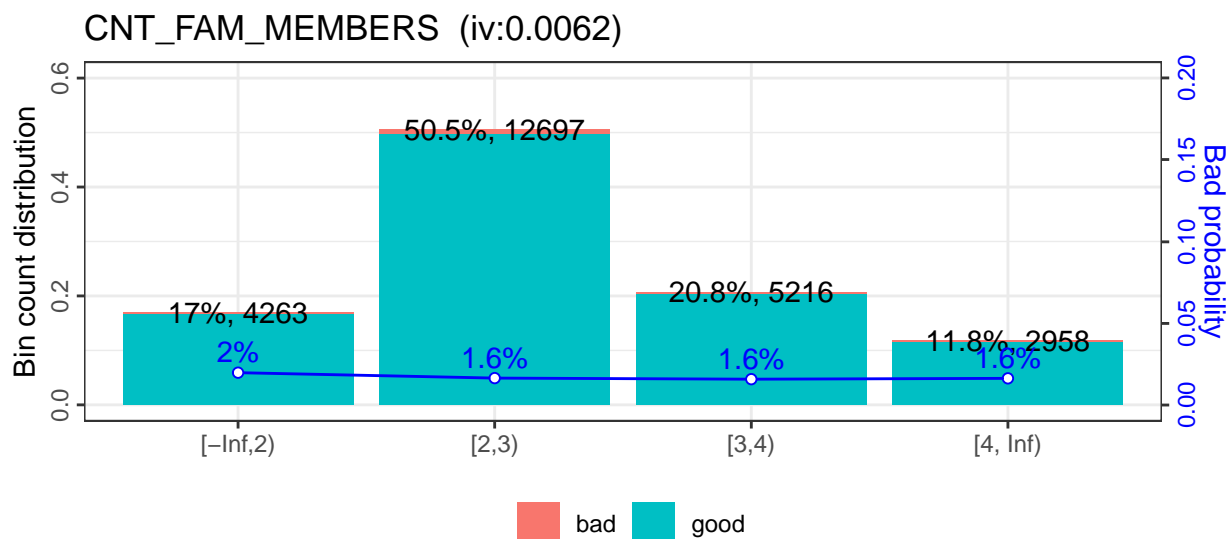
Finally we combine binning variables, binary factor variables, and category variables with original data to produce `dl_iv_data` and For the consistency of features engineering we repeat the whole process for mf_data and mice_data to produce `mf_iv_data` and `mf_mice_data`.

```
## [INFO] converting into woe values ...

## Rows: 25,134
## Columns: 35
## $ CODE_GENDER              <dbl> 2, 1, 1, 1, 1, 2...
## $ FLAG_OWN_CAR             <dbl> 2, 1, 1, 1, 1, 2...
```

```
## $ FLAG_OWN_REALTY                              <dbl> 2, 2, 2, 2, 2, 2...
## $ FLAG_WORK_PHONE                              <int> 0, 0, 0, 0, 0, 1...
## $ FLAG_PHONE                                   <int> 0, 1, 1, 1, 1, 1...
## $ FLAG_EMAIL                                   <int> 0, 1, 1, 1, 1, 1...
## $ opentime                                     <int> -29, -4, -26, -2...
## $ y                                            <fct> 0, 0, 0, 0, 0, 0...
## $ less_factor_edu_Academic.degree              <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_edu_Incomplete.higher            <int> 0, 0, 0, 0, 0, 1...
## $ less_factor_edu_Lower.secondary              <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_edu_Secondary...secondary.special <int> 1, 1, 1, 1, 1, 0...
## $ less_factor_house_House...apartment          <int> 1, 1, 1, 1, 1, 1...
## $ less_factor_house_Municipal.apartment        <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_house_Office.apartment           <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_house_Rented.apartment           <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_house_With.parents               <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_income_Commercial.associate      <int> 0, 1, 1, 1, 1, 0...
## $ less_factor_income_Pensioner                 <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_income_State.servant             <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_income_Student                   <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_income_Working                   <int> 1, 0, 0, 0, 0, 1...
## $ less_factor_status_Civil.marriage            <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_status_Married                   <int> 1, 0, 0, 0, 0, 1...
## $ less_factor_status_Separated                 <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_status_Single...not.married      <int> 0, 1, 1, 1, 1, 0...
## $ less_factor_status_Widow                     <int> 0, 0, 0, 0, 0, 0...
## $ less_factor_work_Labor                       <int> 1, 0, 0, 0, 0, 0...
## $ less_factor_work_Office                      <int> 0, 1, 1, 1, 1, 1...
## $ less_factor_work_higher                      <int> 0, 0, 0, 0, 0, 0...
## $ CNT_CHILDREN_woe                             <dbl> 0.022243446, 0.0...
## $ AMT_INCOME_TOTAL_woe                         <dbl> -0.276168616, 0....
## $ DAYS_BIRTH_woe                               <dbl> -0.1382294, -0.1...
## $ DAYS_EMPLOYED_woe                            <dbl> -0.1021481, 0.20...
## $ CNT_FAM_MEMBERS_woe                          <dbl> -0.02502654, 0.1...
```

As for **mf_na_data** and **mice_na_data**, we produce the same process to keep the consistency of data, therefor we will get three datasets: **dl_iv_data**, **mf_iv_data** and **mice_iv_data**.

4.2   One-hot Encoding

Having a look at the whole dataset after deleting or imputation, we can figure out there are 8 nominal variables. And since all the nominal variables are categorically arranged, we can use the *one-hot-encoding* to deal with different kinds of nominals. The general idea of using one-hot-encoding is to mark the nominals(categories) into vectors(0 and 1 composed), in which if this particular category exists then mark the element with 1. When the entire encoding is done, there would be newly generated columns with category marked with name in place for the nominal variables. For example, when dealing with categorical variables "OCCUPATION_TYPE" which includes different types of occupation (e.g. Core staff, Sales staff, High skill tech staff, etc.), one particular type would be extracted out as a single vector with only 0 and 1 entered in where element 1 is marked for potential users corresponding to the same job. Similarily, the data processing with binary variables such as "GENDER" would be much easier to address.

```
library(dataPreparation)

# Compute encoding with category names
encoding <- build_encoding(completeData,
  cols = c(
```

460

```
    "CODE_GENDER", "FLAG_OWN_CAR", "FLAG_OWN_REALTY",
    "NAME_INCOME_TYPE", "NAME_EDUCATION_TYPE",
    "NAME_FAMILY_STATUS", "NAME_HOUSING_TYPE",
    "OCCUPATION_TYPE"
  ), verbose = TRUE
)

# Apply one hot encoding to turn the records of categories into 0,1 composed vectors
completeData <- one_hot_encoder(completeData, encoding = encoding, drop = TRUE)
```

And in order to generate the task for mlr3, we need to transform the target variable into factor type.

```
# convert all character y data into factor data type.
completeData <- data %>%
  mutate_if(is.character, as.factor) %>%
  mutate(y = as.factor(y))
head(completeData)
```

After the above preprocessing procedures with nominal variable addressed with one-hot encoding, the corresponding 3 datasets were generated accordingly which are named as **dl_oh_data**, **mf_oh_data** and **mice_oh_data**.

When finishing with the nominal variable encoding process, there are 6 datasets in general named with 2 groups: the **iv** group and the **one-hot** group. There are **dl_iv_data**, **mf_iv_data** and **mice_iv_data** included in the **iv** group while **dl_oh_data**, **mf_oh_data** and **mice_oh_data** included in the **one-hot** group.

5 Introduction to methods and metrices

5.1 Logistic regression

Logistic Regression is a Machine Learning classification algorithm that is used to predict the probability of a categorical dependent variable. In logistic regression, the dependent variable is a binary variable that contains data coded as 1 (yes, success, etc.) or 0 (no, failure, etc.). In other words, the logistic regression model predicts P(y=1) as is shown in formular of sample x and β is a vector of the logistic regression coefficients.

$$P = (y = 1|x, \beta) = \frac{1}{1 + e^{-\beta^T x}}$$

5.2 KNN

KNN (k-nearest neighbors) is a method used for classification. In simple words, to classify one specific data point, it takes k neighbors with the shortest distance. Furthermore, based on how the neighbors are classified, we will assign the new input to the most popular category in the k neighbors.

The **KNN** package included in **mlr3** has the following parameters: *k* (the number of neighbors considered), *distance* (Parameter of Minkowski distance), *kernel* (kernel functions used to weight the neighbors). Here the number of k and the method of calculating the distances between data points are crucial. We will first evaluate how KNN performs between different data, including different encoding, and different missing value handling. Then we will explore different methods to get better results. First, we investigate them separately and then combine the knowledge to perform further fine-tuning to improve the model.

5.3 SVM

Support Vector Machine (SVM) is generally considered as a classification approach while it can be harnessed in both types of classification and regression related problems. The reason why we choose SVM as one of the training models regarding the credit card approval decision is that it is rather easy to handle multiple binary variables (e.g. `CODE_GENDER`), categorical variables (e.g. `OCCUPATION_TYPE`) and continuous variables (e.g. `AMT_INCOME_TOTAL`) with SVM.

To explain SVM further, there are three core elements included in SVM, which are support Vectors, hyperplane and margin. Support vectors are the data points, which are closest to the hyperplane. These points will define the separating line better by calculating the corresponding margins. These points are more relevant to the construction of the classifier. In addition, a hyperplane is a decision plane which can separate between a set of objects having different class memberships. Last but not least, a margin is a gap between the two lines on the closest class points. This is calculated as the perpendicular distance from the line to support vectors or closest points and the larger the margin is, the better the classification job is done with the dataset.

With regards to the purpose of classification, SVM would construct a hyperplane in multidimensional space intended to seperate for different classes. Afterwards, SVM will generate the optimal hyperplane in an iterative manner, that is used to minimize the classification error. In general, the core idea of this model is to find the maximum marginal hyperplane (MMH) which could best divide the whole dataset (data collected with potential customers who want to apply for the credit cards)into different classes, referred as our ultimate target variable y (0 and 1, meaning different approval group type) in this case.

Correspondingly, we will use the SVM algorithm embedded in the mlr3 learner and analyze the prediction performances with AUC (Area under the ROC Curve) values regarding the approval decision about the issuance of credit card to make.

Besides the basic model training with SVM with default parameter settings, we still need to tune the model further in order to get a better prediction performance, which is corresponeded to the AUC value, with the approval decision. When it comes to model tuning for SVM, we generally onsider the kernel function, cost (also known as C- Regularization parameter) and gamma to tune. (**reference**)

Kernels: A kernel is playing a role in transforming an input data space into the required form. SVM uses a technique called the kernel trick to take a low-dimensional input space and transforms it into a higher

dimensional space. In other words, you can say that it converts nonseparable problem to separable problems by adding more dimension to it. It is most useful in non-linear separation problem. Kernel trick helps you to build a more accurate classifier and therefore can reduce the classification error.

Cost (Regularisation): Cost is the penalty parameter, which represents misclassification or error term. The misclassification or error term tells the SVM optimisation how much error is bearable. This is how you can control the trade-off between decision boundary and misclassification term.

Gamma: Gamma is a parameter, which ranges from 0 to 1. A higher value of gamma will perfectly fit the training dataset, which causes over-fitting. Gamma=0.1 is considered to be a good default value. The value of gamma needs to be manually specified in the learning algorithm.

5.4   Random Forest

[reference] https://www.datacamp.com/community/tutorials/random-forests-classifier-python#algorithm

Random Forest, also known as Random Decision Forest, is an algorithm mainly used for dealing with classification problems which exactly corresponds with our project purpose of the decision made regarding the approval of the credit card. It consists of multiple decision trees and utilizes bagging and feature randomness in order to create an uncorrelated forest of trees whose prediction performance is more accurate than of any individual tree. The random tree algorithm works in four steps. First of all, it will select the random samples from the given dataset which means the general information collected with the potential customers in our case. Then, the algorithm would correspondingly construct a decision tree for each sample drawn from the whole dataset and generate the prediction classification result from each decision tree. The next step would be to perform a vote for each predicted result, which has been given by each decision tree. After all these steps, the algorithm would choose the prediction of the classification result with the most votes as the final prediction outcome, referred to be the final decision made concerning whether or not to approve the issuance of the credit card to the potential customer.

The reason why we have chosen the Random Forest algorithm as one of our learners is that generally the Random Forest algorithm is considered to be a highly accurate and robust method because of the number of decision trees participating in the classification process. Also, It does not suffer from the overfitting problem because it can take the average of all the prediction results which will cancel out the biases and the prediction errors as a consequence.

With regards to model tuning for Random Rorest, there are mainly four variables to take into consideration. One of the crucial hyperparameters of RF is *mtry*, defined as how many variables to select at a node split when growing a decision tree. Generally, lower values of mtry will lead to more different, less correlated trees, arousing better stability while aggregating. As mentioned by Probst in the article Hyperparameters and tuning strategies for random forest, mtry values are sampled from the space $[0, p]$ with p being the number of predictor variables. Accordingly, we should set the range of mtry values to meet the above requirements. Secondly, the sample size parameter, *sample.fraction*, determines how many observations are drawn for the training of each tree. It has a similar effect as the mtry parameter. Decreasing the sample size leads to more diverse trees and thereby lower correlation between the trees, which has a positive effect on the prediction accuracy when aggregating the trees. However, the accuracy of the single trees decreases, since fewer observations are used for training. Hence, similarly to the mtry parameter, the choice of the sample size can be seen as a trade-off between stability and accuracy of the trees. Therefore, sample size values shall be sampled from $[0.2n, 0.9n]$ with n being the number of observations. Moreover, the nodesize parameter, *min.node.size*, specifies the minimum number of observations in a terminal node. Setting it lower leads to trees with a larger depth which means that more splits are performed until the terminal nodes. Considering tuning with it (see Hyperparameters and tuning strategies for random forest), node size values should be sampled from with higher probability (in the initial design) for smaller values by sampling x from $[0, 1]$ and transforming the value by the formula $[(0.2n)^x]$. Last but not least, the number of trees in a forest is a parameter that is not tunable in the classical sense but should be set sufficiently high. According to measures based on the mean quadratic loss such as the mean squared error (in case of regression) or the Brier score (in case of classification), however, more trees are always better, as theoretically proved by Probst and Boulesteix (2017). Thence, we have decided to set it to be fixed with 1000 to meet the considerably latge number of

obsearvations of records. Also, it can be vividly seen from the target variable y we have generated from the data preparation step that the distribution with target 1 and 0 are so imbalanced that we must train the learner with SMOTE function to get considerably balanced training data. Fortunately, in mlr3pipelines, there is a classbalancing and a smote pipe operator that can be combined with any learner. We have decided to combine the fixed tree number of learner with SMOTE function learner in order to get the optimal parameter settings for smote.K and smote.dup_size.

5.5 Metrics

5.5.1 ROC curve and AUC score

A receiver operating characteristic curve, or ROC curve, is a graphical plot that illustrates the diagnostic ability of a binary classifier system as its discrimination threshold is varied. The ROC curve is created by plotting the true positive rate $TPR = \frac{TP}{TP+FN}$ against the false positive rate $FPR = \frac{FP}{FP+TN}$ at various threshold settings. The true-positive rate is also known as sensitivity, reacall or probablitly of detection in machine learning. The false-positive rate is also known as probability of false alarm and can be calculated as (1 - specificity). It can also be thought of as a plot of the power as fa cuntion of the Type I Error of the decision rule. Auc stands for "Area under the Roc Curve", it measures the entire two-dimensional area underneath the entire ROC curve form (0,0) to (1,1). It tells how much model is capable of distinguishing between classes. Higher the AUC, better the model is at predicting 0s as 0s and 1s as 1s.

In our experiment, we looked at several different measures to evaluate our result, including fbeta, ce, acc and AUC. Ingeneral, using fbeta would be ideal when facing imbalanced data[recite]. However, our data is highly imbalanced, and the fbeta performs in favour of predicting all as the majority category. It outputs, in most cases with a very similar value close to 0.99. Thus, we decided to stick with AUC. By comparing the AUC value, we can better distinguish the improvement in models.

6 Choice with training task

As for the process concerning the general model tuning, we would firstly go with the 6 different datasets corresponding to 6 training tasks and train the 4 models with default parameter settings and see which task to choose according to the ultimate performance output based on the best AUC level. By doing these, the training workload for the following tuning procedures would be tremendously decreased as we have considerably more learners to train the task with.

6.1 Basic model training results

first we load all the datasets. As the requests of **mlr3**, all integer numeric should be converted as double numeric, and target **y** should be converted as type factor.

```r
library(tidyverse)

# load all data sets
dl_iv_data <- read.csv2("./data/dl_iv_data.csv") %>%
  mutate_if(is.integer, as.numeric) %>%
  mutate(y = as.factor(y))
mf_iv_data <- read.csv2("./data/mf_iv_data.csv") %>%
  mutate_if(is.integer, as.numeric) %>%
  mutate(y = as.factor(y))
mice_iv_data <- read.csv2("./data/mice_iv_data.csv") %>%
  mutate_if(is.integer, as.numeric) %>%
  mutate(y = as.factor(y))
dl_oh_data <- read.csv("./data/dl_oh_data.csv") %>%
  mutate_if(is.integer, as.numeric) %>%
  mutate(y = as.factor(y))
mf_oh_data <- read.csv("./data/mf_oh_data.csv") %>%
  mutate_if(is.integer, as.numeric) %>%
  mutate(y = as.factor(y))
mice_oh_data <- read.csv("./data/mice_oh_data.csv") %>%
  mutate_if(is.integer, as.numeric) %>%
  mutate(y = as.factor(y))
```

then we create and combine all the tasks into a list.

```r
library(mlr3)

# create tasks from all the data
task_all <- list(
  TaskClassif$new("dl_iv", backend = dl_iv_data, target = "y"),
  TaskClassif$new("mf_iv", backend = mf_iv_data, target = "y"),
  TaskClassif$new("mice_iv", backend = mice_iv_data, target = "y"),
  TaskClassif$new("dl_oh", backend = dl_oh_data, target = "y"),
  TaskClassif$new("mf_oh", backend = mf_oh_data, target = "y"),
  TaskClassif$new("mice_oh", backend = mice_oh_data, target = "y")
)
```

for each model, we work the same procedures.

We all use **benchmark_grid** to create design, setting with *5 folds cv*, *predict_type = "prob"* and *measure = msr("classif.auc")* for computing AUC. In addition, we fix random seed as *2020* for reproducing.

6.1.1 Logistic Regression:

We will first evaluate how Logistic Regression performs between different data, including different encoding, and different missing value handling. As mentioned above, we pass arguments to **benchmark** function from **mlr3** to train logsitic regression. To train a logistic regression model, we set *lrn("classif.log_reg")* and use **aggregate** function from **mlr3** to extract the results.

```r
library(mlr3learners)
library(mlr3tuning)
library(paradox)

# create a benchmark
design <- benchmark_grid(
  tasks = task_all,
  learners = lrn("classif.log_reg", predict_type = "prob"),
  resampling = rsmp("cv", folds = 5L)
)

# set global measure
all_measures <- msr("classif.auc")

# define function to start benchmark with fixed seed
# save the result, and print training time
# tictoc is used to measure the duration of the training
library(tictoc)
run_benchmark <- function(design){
  set.seed(2020)
  bmr <- benchmark(design, store_models = TRUE)
  run_benchmark <- bmr
}

# run benchmark and save the results
lg_bmr <- run_benchmark(design)
lg_results <- lg_bmr$aggregate(measures = all_measures)
```

For better comparing with each task, we write **multiplot_roc** function with the help of **mlr3viz** package to plots results.

```r
library(mlr3viz)

# plot for the 6 data tasks
multiplot_roc <- function(models, type = "roc") {
  # set a null list to colect all plots
  plots <- list()

  # filter model with task id, and the corresponding AUC value
  # then plot the ROC curve
  model <- models$clone()$filter(task_id = "dl_iv")
  auc <- round(model$aggregate(msr("classif.auc"))[[7]], 4)
  plots[[1]] <- autoplot(model, type = type) + ggtitle(paste("dl_iv:", auc))

  model <- models$clone()$filter(task_id = "mf_iv")
  auc <- round(model$aggregate(msr("classif.auc"))[[7]], 4)
  plots[[2]] <- autoplot(model, type = type) + ggtitle(paste("mf_iv:", auc))
```

```r
model <- models$clone()$filter(task_id = "mice_iv")
auc <- round(model$aggregate(msr("classif.auc"))[[7]], 4)
plots[[3]] <- autoplot(model, type = type) + ggtitle(paste("mice_iv:", auc))

model <- models$clone()$filter(task_id = "dl_oh")
auc <- round(model$aggregate(msr("classif.auc"))[[7]], 4)
plots[[4]] <- autoplot(model, type = type) + ggtitle(paste("dl_oh:", auc))

model <- models$clone()$filter(task_id = "mf_oh")
auc <- round(model$aggregate(msr("classif.auc"))[[7]], 4)
plots[[5]] <- autoplot(model, type = type) + ggtitle(paste("mf_oh:", auc))

model <- models$clone()$filter(task_id = "mice_oh")
auc <- round(model$aggregate(msr("classif.auc"))[[7]], 4)
plots[[6]] <- autoplot(model, type = type) + ggtitle(paste("mice_oh", auc))

# merge all plots in the list
do.call("grid.arrange", plots)
}

# plot roc curve of all tasks
multiplot_roc(lg_bmr)
```


dl_iv: 0.7248   mf_iv: 0.7201

mice_iv: 0.717   dl_oh: 0.6755

mf_oh: 0.6688   mice_oh 0.665
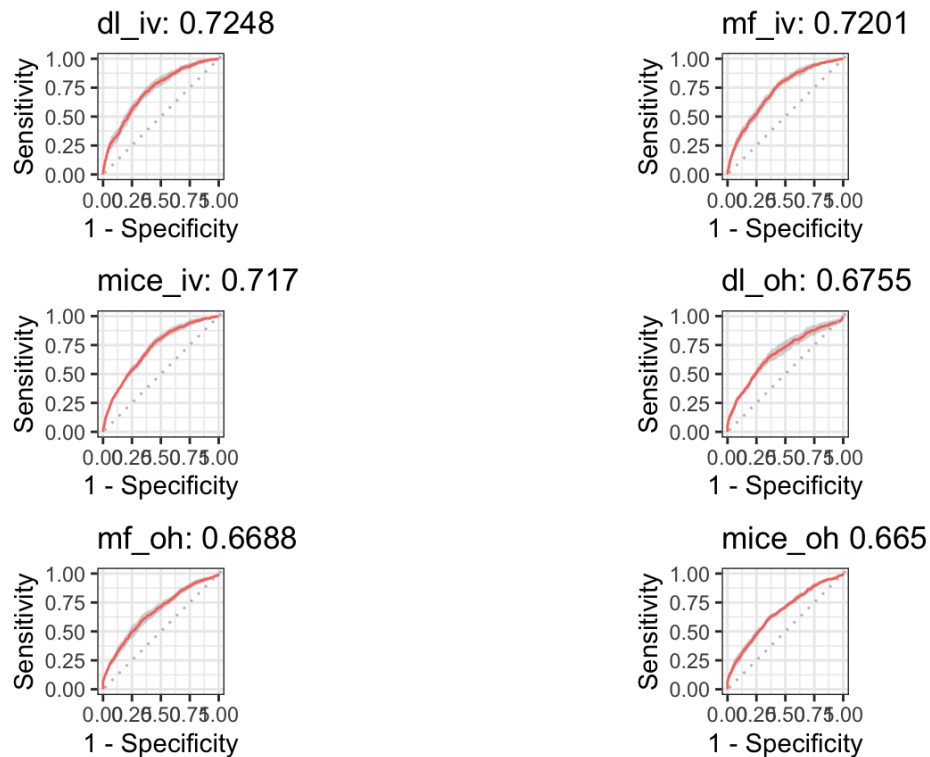
From the ROC plots above, we can see that as for different encoding methods, tasks tackled with WOE encoding generally perform 0.05 better with the AUC score than the corresponding counterpart binary encoding group, as for different missing data handling methods, Logistic Regression has better prediction performance on datasets by deleting missing values with whole row, i.e. **dl_iv_data**, **dl_oh_data**. Above all, we choose **dl_iv_data** as final datasets.

6.1.2 KNN

We will first evaluate how KNN performs between different data, including different encoding, and different missing value handling. Then we will explore different methods to get better results. We set *lr("classif.kknn")* to train KNN model.

```
# create a benchmark
design <- benchmark_grid(
  tasks = task_all,
  learners = lrn("classif.kknn", predict_type = "prob"),
  resampling = rsmp("cv", folds = 5L)
)

# run the benchmark, and save the results
knn_bmr <- run_benchmark(design)
knn_results <- knn_bmr$aggregate(measures = all_measures)

# plot roc curve of all tasks
multiplot_roc(knn_bmr)
```


dl_iv: 0.7143

mf_iv: 0.6988

mice_iv: 0.6944

dl_oh: 0.7216

mf_oh: 0.6813

mice_oh 0.6776
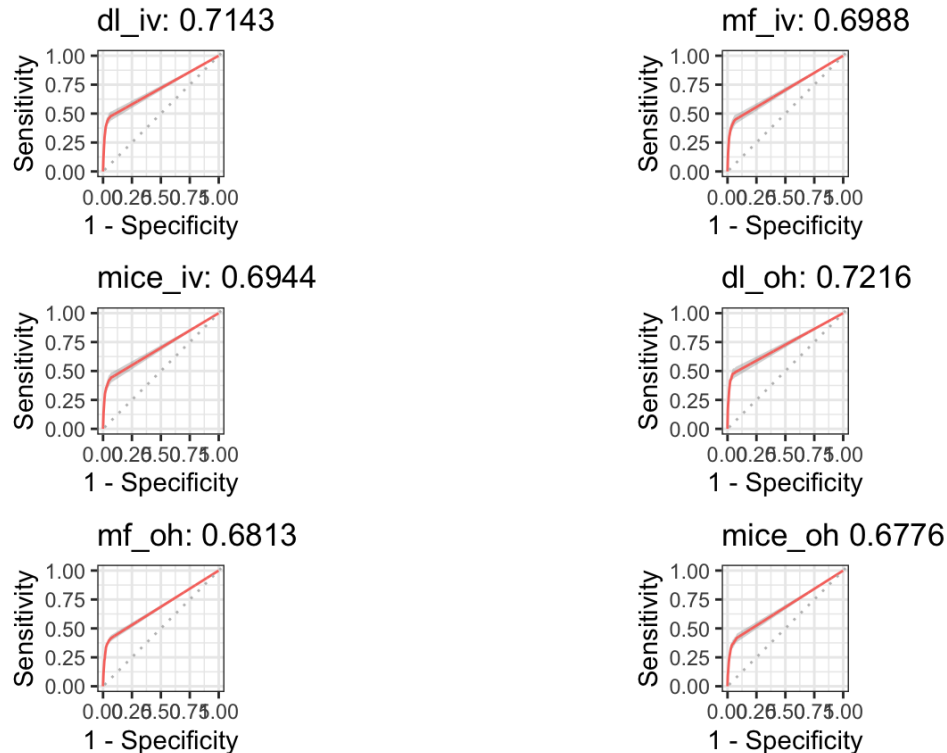
From the ROC plots above, we can see that KNN performs with no significant difference between different encoding and missing data handling methods. Moreover, To reduce our computation cost, we decided to take the task with the highest AUC value in this step, being **dl_iv_data**. Now, we will focus on the task **dl_iv_data**, and fine-tune the parameters.

6.1.3 SVM

We set *lrn("classif.svm")* to train SVM model.

```
# create a benchmark to train a list of tasks with default hyperparameter settings
design <- benchmark_grid(
```

```
    tasks = task_all,
    learners = lrn("classif.svm", predict_type = "prob"),
    resampling = rsmp("cv", folds = 5L)
)

# run the benchmark, and save the result
svm_bmr <- run_benchmark(design)
svm_results <- svm_bmr$aggregate(all_measures)

# plot roc curve of all tasks
multiplot_roc(svm_bmr)
```


dl_iv: 0.5218

mf_iv: 0.517

mice_iv: 0.477

dl_oh: 0.4851

mf_oh: 0.492

mice_oh 0.5079
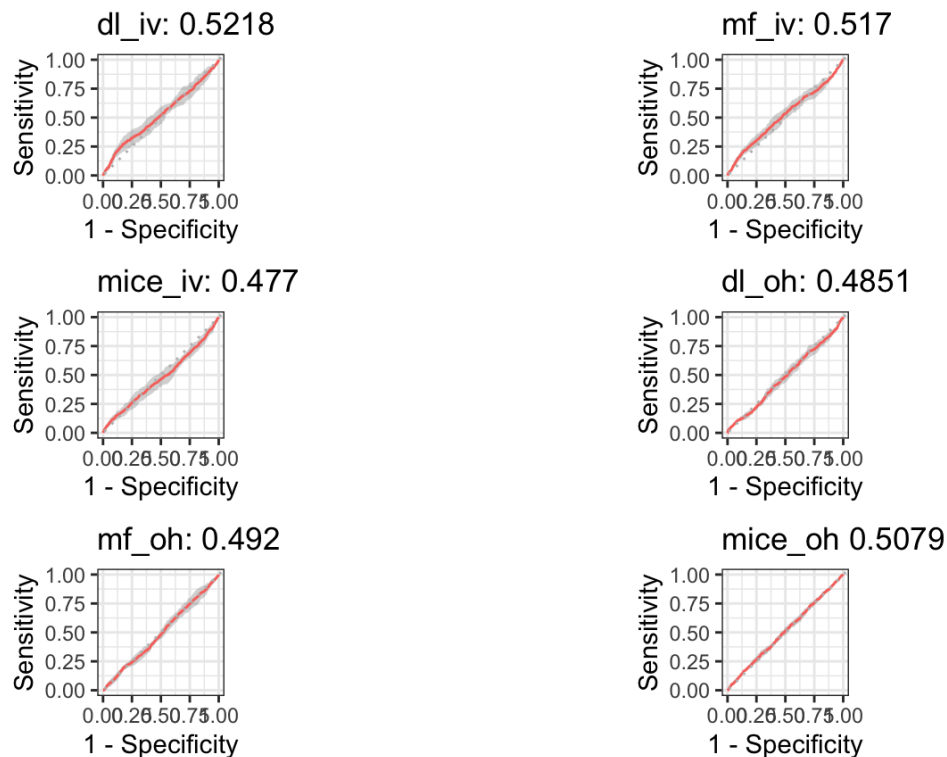
Similarly, we go with the **dl_iv_data** training task.

6.1.4   Random Forest

We set *lrn("classif.ranger")* to train Random Forest model.

```
# create a benchmark to train a list of tasks with default hyperparameter settings
design <- benchmark_grid(
    tasks = task_all,
    learners = lrn("classif.ranger", predict_type = "prob"),
    resampling = rsmp("cv", folds = 5L)
)

# run the benchmark, and save the result
rf_bmr <- run_benchmark(design)
rf_results <- rf_bmr$aggregate(all_measures)

# plot roc curve of all tasks
```

```
multiplot_roc(rf_bmr)
```

dl_iv: 0.7643

mf_iv: 0.7581

mice_iv: 0.7569

dl_oh: 0.7433

mf_oh: 0.728

mice_oh 0.7239
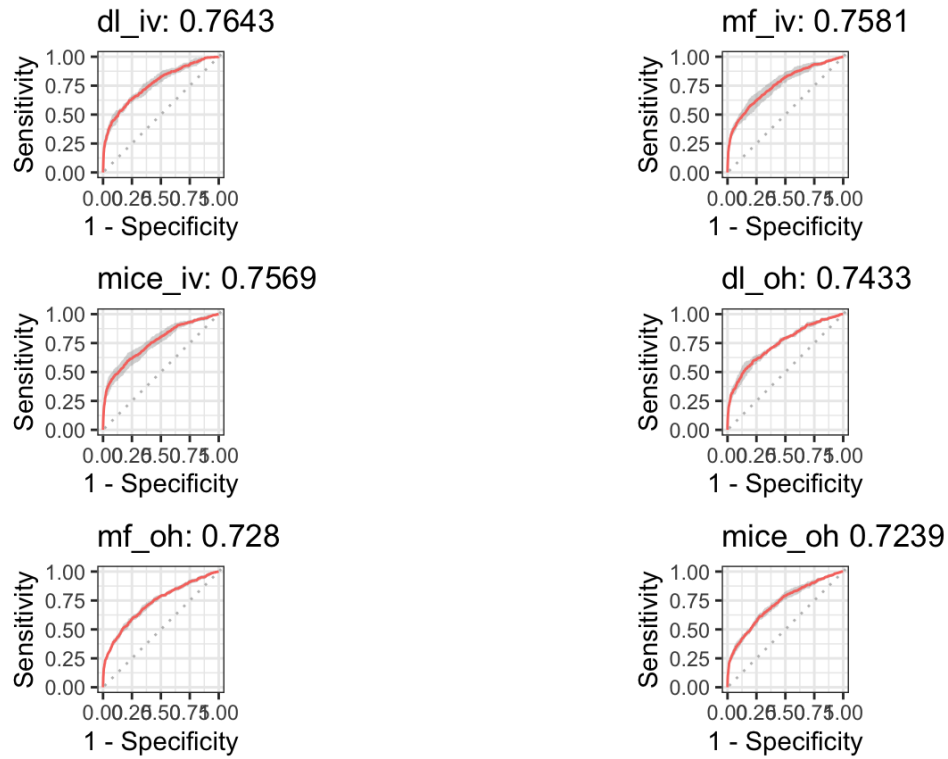
Similarly, we go with the **dl_iv_data** training task.

6.2   Conclusion

according to the results above, **dl_iv_data** generally has the best prediction performance among all the six tasks with regards to 4 different models. Hence **dl_iv_data** is chosen as the final training dataset.

7 Fine-tuning

Based on the imbalanced target variable y we already have, it is crucial that we need to firstly address the imbalance problem. When it comes to deal with imbalanced data, there are two options to choose. The first method is the **smote** and the other is the **oversampling**. In mlr3pipelines, there is a **classbalancing** and a **smote** pipe operator that can be combined with any learner. Note that **smote** has two hyperparameters *K* and *dup_size*. While *K* changes the behavior of the SMOTE algorithm, *dup_size* will affect oversampling rate of SMOTE algorithm. As for **oversampling** oeperator, there is only one hyperparameter *oversample.ratio*, which determines the oversampling rate of **oversampling** operator.

To focus on the effect of the oversampling rate on the performance, we will consider different parameter settings with regards to the **oversampling** pipe operator which can be adapted to different training models.

when it comes to hyperparameter tuning, we need to set different learners based on the **mlr3 package** to tune tasks. The next step is to set for the hyperparameters which are used to tune with different ranges or factor levels.

We create a list of AutoTuner classes of the 4 different learners (Random Forest, SVM, Logistic and KNN) to tune the graph (4 different model learners + imbalance data correction method) based on a 3-fold CV using the classif.AUC as the performance measure. To keep runtime low, we define the resolution with grid_search to 5. However, one can also jointly tune the hyperparameter of the learner along with the imbalance correction method by extending the search space with the learner's hyperparameters. Note that SMOTE has two hyperparameters *K* and *dup_size*. While *K* changes the behavior of the SMOTE algorithm, *dup_size* will affect oversampling rate. To focus on the effect of the oversampling rate on the performance, we will consider different parameter settings with regards to the **oversampling** pipe operator which can be adapted to different training models.

Therefore, we will need to firstly find the optimal settings for *smote.K* and *smote.dup_size* to correct the imbalanced target data distribution. Hence, we use grid search with the corresponding hyperparameter configurations for the oversampling method and each SMOTE variant for tuning. The **AutoTuner** is a fully tuned graph that behaves like a usual learner. For the innner tuning, a 3-fold CV is used. Now, we use the **benchmark** function to compare the tuned class imbalance pipeline graphs based on a 3-fold CV for the outer evaluation. After all these tuning procedures mentioned above, we can therefore draw different parameter combinations with **ggplot** and see what the general trend is with different parameter ranges or levels to choose the optimal hyperparameter combinations for the best prediction performance. Also one thing to mention, we would generally use the y axis as the AUC value, x pixel as the tuning parameter and the color parameter as well to show the different tendencies if necessary. Ultimately, after all these step-to-step tuning procedures, we can grab the best performance (measured by AUC value) with the recommended parameter settings and therefore improve our default models.

7.1 Logistic Regression

7.1.1 Data balancing

7.1.1.1 Oversampling

In mlr3pipelines, there is a **classbalancing** and a **smote** pipe operator that can be combined with any learner. At first we use *oversampling* method to balance target variable. To do this, We define the classbalancing PipeOps by using the **po** function of **mlr3pipelines** package and set parameter as *classbalancing*.

```
# load library
library(mlr3learners)
library(mlr3tuning)
library(mlr3pipelines)
library(paradox)
task <- TaskClassif$new("dl_iv", backend = dl_iv_data, target = "y")

# logistic learner
```

```r
lg_learner <- lrn("classif.log_reg", predict_type = "prob")

po_over <- po("classbalancing",
  id = "oversample", adjust = "minor",
  reference = "minor", shuffle = FALSE, ratio = 6
)

# create oversample
lg_over_learner <- GraphLearner$new(po_over %>>% lg_learner, predict_type = "prob")
```

As for *classbalancing*, *oversample.ratio* is the hyperparamter we neet to configurate. For a better exploration of *oversample.ratio*, we set a large ranging from 10 to 70.

```r
# define parameter
lg_over_param_set <- ParamSet$new(list(ParamDbl$new("oversample.ratio", lower = 10, upper = 70)))

# set inner resampling
inner_rsmp <- rsmp("cv", folds = 5L)

# create autotuner
lg_over_auto <- AutoTuner$new(
  learner = lg_over_learner, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = lg_over_param_set,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 12)
)

# set outer_resampling, and create a design with it
outer_rsmp <- rsmp("cv", folds = 3L)
lg_over_design <- benchmark_grid(
  tasks = task,
  learners = lg_over_auto,
  resamplings = outer_rsmp
)
```

With *store_models = TRUE* we allow the benchmark function to store each single model that was computed during tuning. Therefore, we can plot the tuning path of the best learner from the subsampling iterations:

```r
set.seed(2020)

# create benchmark
lg_over_bmr <- benchmark(lg_over_design, store_models = TRUE)

# aggregate to get results of model
# run the benchmark, and save the result
lg_over_bmr <- run_benchmark(lg_over_design)

# aggregate to get results of model
lg_over_results <- lg_over_bmr$aggregate(measures = msr("classif.auc"))

# inspect auc value.
lg_over_results$classif.auc
# lg_over_results = 0.7159998


# plot oversample ratio vs AUC
```

```r
library(ggplot2)
over_path1 <- lg_over_bmr$data$learner[[1]]$archive("params")
over_gg1 <- ggplot(over_path1, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
  geom_point(size = 3) +
  geom_line()

over_path2 <- lg_over_bmr$data$learner[[2]]$archive("params")
over_gg2 <- ggplot(over_path2, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
  geom_point(size = 3) +
  geom_line()

over_path3 <- lg_over_bmr$data$learner[[3]]$archive("params")
over_gg3 <- ggplot(over_path3, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
  geom_point(size = 3) +
  geom_line()

# combine all plots in one
library(ggpubr)
ggarrange(over_gg1, over_gg2, over_gg3, common.legend = TRUE, legend = "bottom")
```

We can see from the plots above, logistic regression seems to get better performance when the value of *oversample.ratio* is round 20 and 40. We can not determine the final value of this hyperparameter. Otherwise, we proceed another search with ranging from 15 to 45 to find the best value of *oversample.ratio*.

```
# set oversample.ratio tuning range
lg_over_param_set <- ParamSet$new(list(ParamDbl$new("oversample.ratio", lower = 5, upper = 45)))

# create autotuner
lg_over_auto <- AutoTuner$new(
  learner = lg_over_learner, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = lg_over_param_set,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 7)
)

# set outer_resampling, and create a design with it
outer_rsmp <- rsmp("cv", folds = 3L)
lg_over_design <- benchmark_grid(
  tasks = task,
  learners = lg_over_auto,
  resamplings = outer_rsmp
)
```

```
# run benchmark, and save result
lg_over_bmr <- run_benchmark(lg_over_design)

# aggregate to get results of model
lg_over_results <- lg_over_bmr$aggregate(measures = msr("classif.auc"))

# inspect auc value.
lg_over_results$classif.auc
# lg_over_results = 0.7212002

# plot oversample.ratio v.s. AUC
library(ggplot2)
over_path1 <- lg_over_bmr$data$learner[[1]]$archive("params")
over_gg1 <- ggplot(over_path1, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
  geom_point(size = 3) +
  geom_line()

over_path2 <- lg_over_bmr$data$learner[[2]]$archive("params")
over_gg2 <- ggplot(over_path2, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
  geom_point(size = 3) +
  geom_line()

over_path3 <- lg_over_bmr$data$learner[[3]]$archive("params")
over_gg3 <- ggplot(over_path3, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
```

```
  geom_point(size = 3) +
  geom_line()
library(ggpubr)

# combine all plots in one
ggarrange(over_gg1, over_gg2, over_gg3, common.legend = TRUE, legend = "bottom")
```
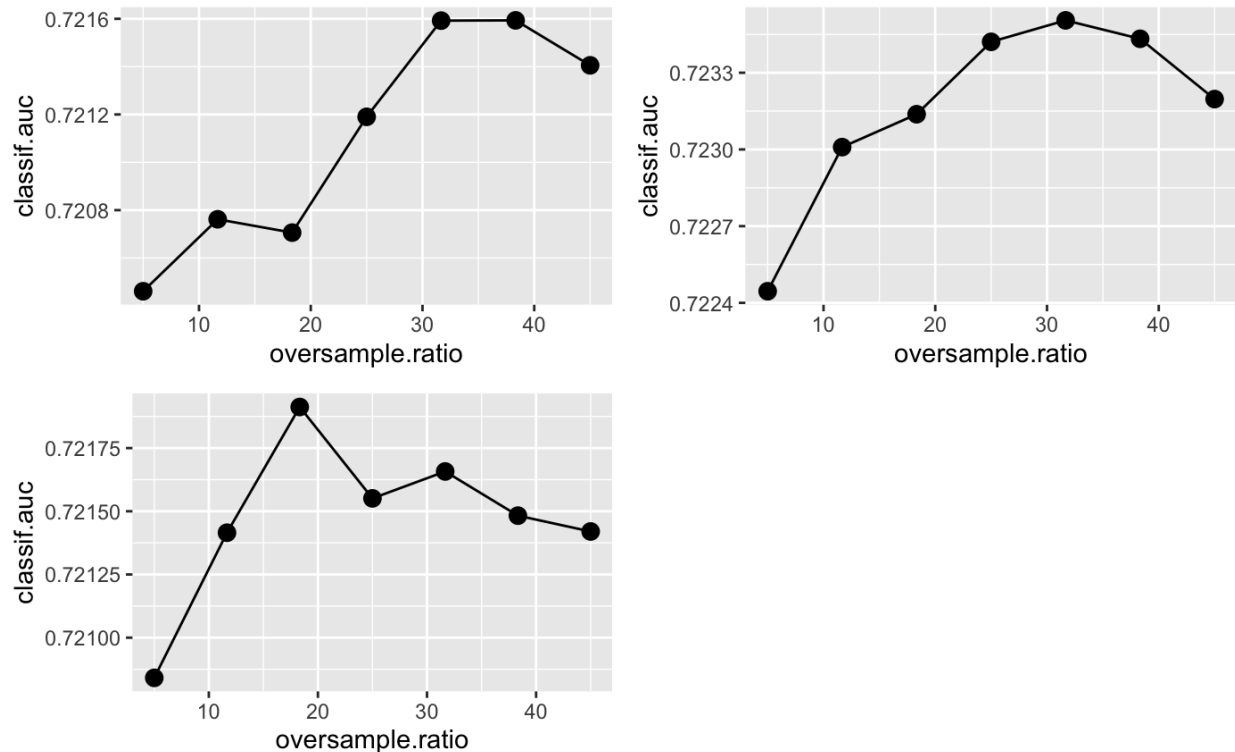

We noticed that two of three plots reach the best AUC value when the value of *oversample.ratio* is 30. Thus we choose the hyperparameter as 30. In conclusion, simple logistic regression achieves the best performance with AUC value 0.7236 when the value of *oversample.ratio* is 30. What is unexpected is that the AUC value of logistic regression does not increase but even slightly decreases after balancing target variable, from 0.7248 to 0.7212. It suggests that *oversampling* method may not be suitable for our dataset.

Since there is no hyperparameter in *log_reg* method, we then use SMOTE method to balance target variable. We want to determine which method is suitable for our dataset.

7.1.1.2 SMOTE

We define the smote PipeOps by using the **po** function of **mlr3pipelines** package and set parameter as *smote*.

```
library(mlr3learners)
library(mlr3tuning)
library(mlr3pipelines)
library(paradox)

task <- TaskClassif$new("dl_iv", backend = dl_iv_data, target = "y")

# logistic learner
lg_learner <- lrn("classif.log_reg", predict_type = "prob")
```

```
# create smote
po_smote <- po("smote", dup_size = 50)
lg_smote_learner <- GraphLearner$new(po_smote %>>% lg_learner, predict_type = "prob")
```

In *smote* method of **mlr3** package, there are 2 hyperparameters that need to be configured. Since our target variable is extremely imbalanced and with the results of rough experimentation, we set hyperparameters *smote.dup_size* ranging from 20 to 60 and *smote.K* ranging from 10 to 20.

```
lg_smote_param_set <- ParamSet$new(params = list(
  ParamInt$new("smote.dup_size", lower = 20, upper = 60),
  ParamInt$new("smote.K", lower = 10, upper = 20)
))

# set outer_resampling, and create a design with it
inner_rsmp <- rsmp("cv", folds = 3L)
lg_smote_auto <- AutoTuner$new(
  learner = lg_smote_learner, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = lg_smote_param_set,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5)
)

# set outer_resampling, and create a design with it
outer_rsmp <- rsmp("cv", folds = 3L)
lg_smote_design <- benchmark_grid(
  tasks = task,
  learners = lg_smote_auto,
  resamplings = outer_rsmp
)
```

With *store_models = TRUE* we allow the benchmark function to store each single model that was computed during tuning. Therefore, we can plot the tuning path of the best learner from the subsampling iterations:

```
# run benchmark, and save result
lg_smote_bmr <- run_benchmark(lg_smote_design)

lg_smote_results <- lg_smote_bmr$aggregate(measures = msr("classif.auc"))
lg_smote_results$classif.auc

# plot smote parameters v.s. AUC

over_path1 <- lg_smote_bmr$data$learner[[1]]$archive("params")
over_gg1 <- ggplot(over_path1, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()

over_path2 <- lg_smote_bmr$data$learner[[2]]$archive("params")
over_gg2 <- ggplot(over_path2, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()
```

```
over_path3 <- lg_smote_bmr$data$learner[[3]]$archive("params")
over_gg3 <- ggplot(over_path3, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()

# combine all plots in one
library(ggpubr)
ggarrange(over_gg1, over_gg2, over_gg3, common.legend = TRUE, legend = "bottom")
```


As shown on the plots above, the green line has the best performance on average, and two plots get the best performance at *smote.dup_size* equals 40. hence, it is better to choose *smote.K* with value 15. As for *smote.dup_size*, we will proceed another serach with ranging from 25 to 55 to obtain a considerably better prediction performance.

```
# create smote
po_smote <- po("smote", K = 15)
lg_smote_learner <- GraphLearner$new(po_smote %>>% lg_learner, predict_type = "prob")

# set range for tuning smote.dup_size
lg_smote_param_set <- ParamSet$new(params = list(
  ParamInt$new("smote.dup_size", lower = 25, upper = 50)
))

# set outer_resampling, and create a design with it
lg_smote_auto <- AutoTuner$new(
  learner = lg_smote_learner, resampling = inner_rsmp,
```

```r
  measures = msr("classif.auc"), tune_ps = lg_smote_param_set,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5)
)

# set outer_resampling, and create a design with it
outer_rsmp <- rsmp("cv", folds = 3L)
lg_smote_design <- benchmark_grid(
  tasks = task,
  learners = lg_smote_auto,
  resamplings = outer_rsmp
)
```

```r
# run benchmark, and save the result
lg_smote_bmr <- run_benchmark(lg_smote_design)

lg_smote_results <- lg_smote_bmr$aggregate(measures = msr("classif.auc"))
lg_smote_results$classif.auc
# 0.7253

# plot smote parameters v.s. AUC
over_path1 <- lg_smote_bmr$data$learner[[1]]$archive("params")
over_gg1 <- ggplot(over_path1, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()

over_path2 <- lg_smote_bmr$data$learner[[2]]$archive("params")
over_gg2 <- ggplot(over_path2, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()

over_path3 <- lg_smote_bmr$data$learner[[3]]$archive("params")
over_gg3 <- ggplot(over_path3, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()

# combine all plots in one
library(ggpubr)
ggarrange(over_gg1, over_gg2, over_gg3, common.legend = TRUE, legend = "bottom")
```

factor(smote.K) ● 15

Shown on the plots above, we have noticed that two of three plots suggest the best value of *smote.dup_size* is 31. Thus we finaly choose the value of *smote.dup_size* as 31.

we have managed to reach our best prediction performance with AUC value fixed at 0.7253 which shows the improvement of 0.0005 in comparison with the performance of default logistic regression model with value 0.7248.

After using two different method to balance target variable, the prediction performance of logistic regression model does not obtain a significant improvement and it is noteworthy that *oversampling* even decreases the model performance, this suggests that *oversampling* method may not be suitable for our dataset.

7.2 KNN

7.2.1 Data balancing

7.2.1.1 Oversampling

```r
knn_learner <- lrn("classif.kknn", predict_type = "prob")

# create oversampling, and combine it with current learner
po_over = po("classbalancing",
             id = "oversample", adjust = "minor",
             reference = "minor", shuffle = FALSE, ratio = 5)
lrn_over <- GraphLearner$new(po_over %>>% knn_learner, predict_type = "prob")

# setting oversample.ratio tuning range
knn_over_param_set <- ParamSet$new(list(ParamDbl$new("oversample.ratio", lower = 10, upper = 70)))


knn_over_auto <- AutoTuner$new(learner = lrn_over, resampling = inner_rsmp,
                               measures = msr("classif.auc"), tune_ps = knn_over_param_set,
```

```
                                    terminator = term("none"), tuner = tnr("grid_search", resolution = 5))


# set outer_resampling, and create a design with it
design_over = benchmark_grid(
  tasks = task,
  learners = knn_over_auto,
  resamplings = outer_rsmp
)


# run the benchmark, save the results afterwards
knn_over_bmr <- run_benchmark(design_over)


# plot oversample.ratio v.s. AUC
over_path1 = knn_over_bmr$data$learner[[1]]$archive("params")
over_gg1 = ggplot(over_path1, aes(
  x = oversample.ratio,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

over_path2 = knn_over_bmr$data$learner[[2]]$archive("params")
over_gg2 = ggplot(over_path2, aes(
  x = oversample.ratio,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

over_path3 = knn_over_bmr$data$learner[[3]]$archive("params")
over_gg3 = ggplot(over_path3, aes(
  x = oversample.ratio,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

# combine all plots in one
library(ggpubr)
ggarrange(over_gg1, over_gg2, over_gg3, common.legend = TRUE, legend="bottom")
```
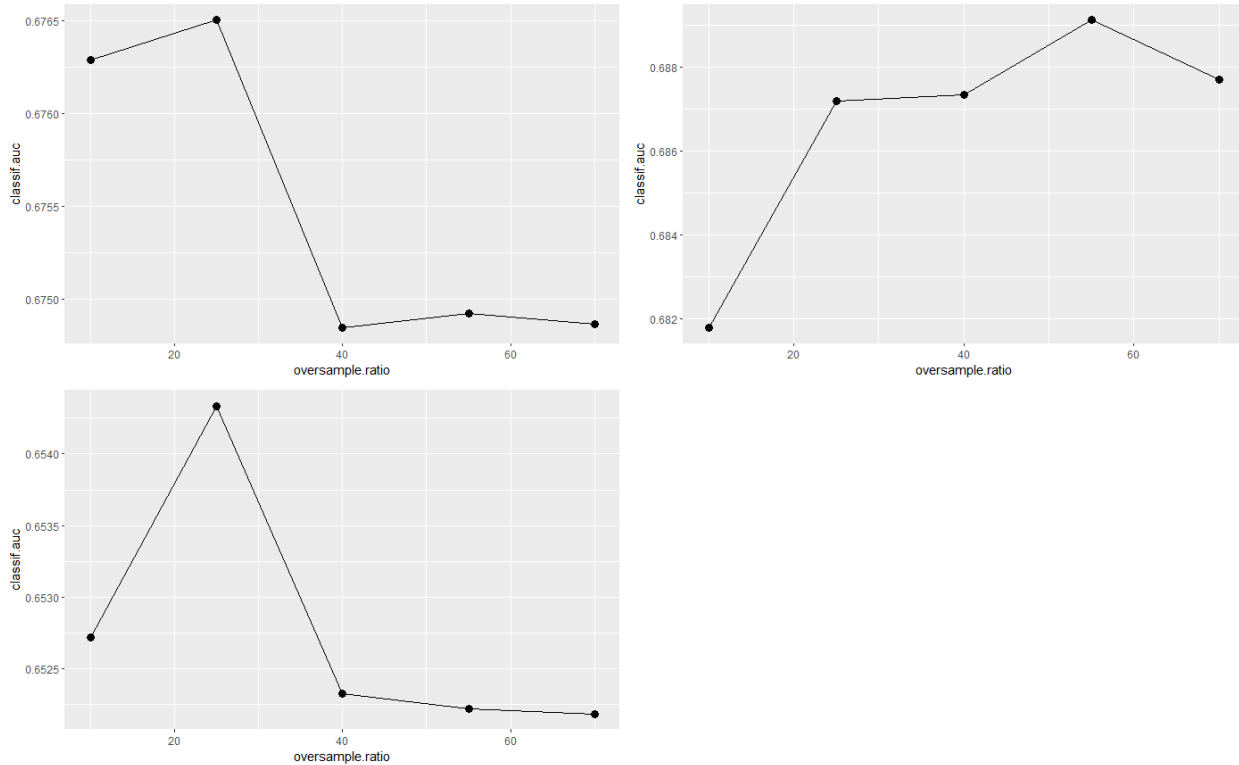
In the plots above, we see apart from the second plot, the other two plots have the highest AUC at the value at *oversample.ratio*=25. However, if we take a closer look at the y-axis, we notice that the scale is rather small. Thus, it is hard to say whether oversampling is improving the results or not. We will need to do further fine-tuning to find out. Here, we will fix *oversample.ratio* to 25 as it is slightly better, as shown in the plots.

7.2.1.2 SMOTE

In this section, we will use the package **SMOTE** that is included in **mlr3**, to see whethere balancing the data with smote may improve the prediction of the model.

```
knn_learner <- lrn("classif.kknn", predict_type = "prob")

# create smote, and combine it with the current learner
po_smote = po("smote", dup_size = 50)
lrn_smote <- GraphLearner$new(po_smote %>>% knn_learner, predict_type = "prob")

# setting smote parameters' tuning range
knn_smote_param_set <- ParamSet$new(params =
                            list(ParamInt$new("smote.dup_size", lower = 20, upper = 60),
                                ParamInt$new("smote.K", lower = 10, upper = 20)))

# create autotuner, using the inner sampling and tuning parameter with random search
inner_rsmp <- rsmp("cv",folds = 3L)
knn_smote_auto <- AutoTuner$new(learner = lrn_smote, resampling = inner_rsmp,
                            measures = msr("classif.auc"), tune_ps = knn_smote_param_set,
                            terminator = term("none"), tuner = tnr("grid_search", resolution = 5))

# set outer_resampling, and create a design with it
outer_rsmp <- rsmp("cv", folds = 3L)
design_smote = benchmark_grid(
```

```r
  tasks = task,
  learners = knn_smote_auto,
  resamplings = outer_rsmp
)


# run the benchmark, save the results afterwards
knn_smote_bmr <- run_benchmark(design_smote)


# plot smote parameters v.s. AUC
smote_path1 = knn_smote_bmr$data$learner[[1]]$archive("params")
smote_gg1 = ggplot(smote_path1, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K))) +
  geom_point(size = 3) +
  geom_line()

smote_path2 = knn_smote_bmr$data$learner[[2]]$archive("params")
smote_gg2 = ggplot(smote_path2, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K))) +
  geom_point(size = 3) +
  geom_line()

smote_path3 = knn_smote_bmr$data$learner[[3]]$archive("params")
smote_gg3 = ggplot(smote_path3, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K))) +
  geom_point(size = 3) +
  geom_line()

# combine all plots in one
ggarrange(smote_gg1, smote_gg2, smote_gg3, common.legend = TRUE, legend="bottom")

# extract final tuned parameters
smote_results <- knn_smote_bmr$score() %>%
  pull(learner) %>%
  map(pluck(c(function(x) x$tuning_result)))
```

factor(smote.K) ● 10 ● 12 ● 15 ● 18 ● 20
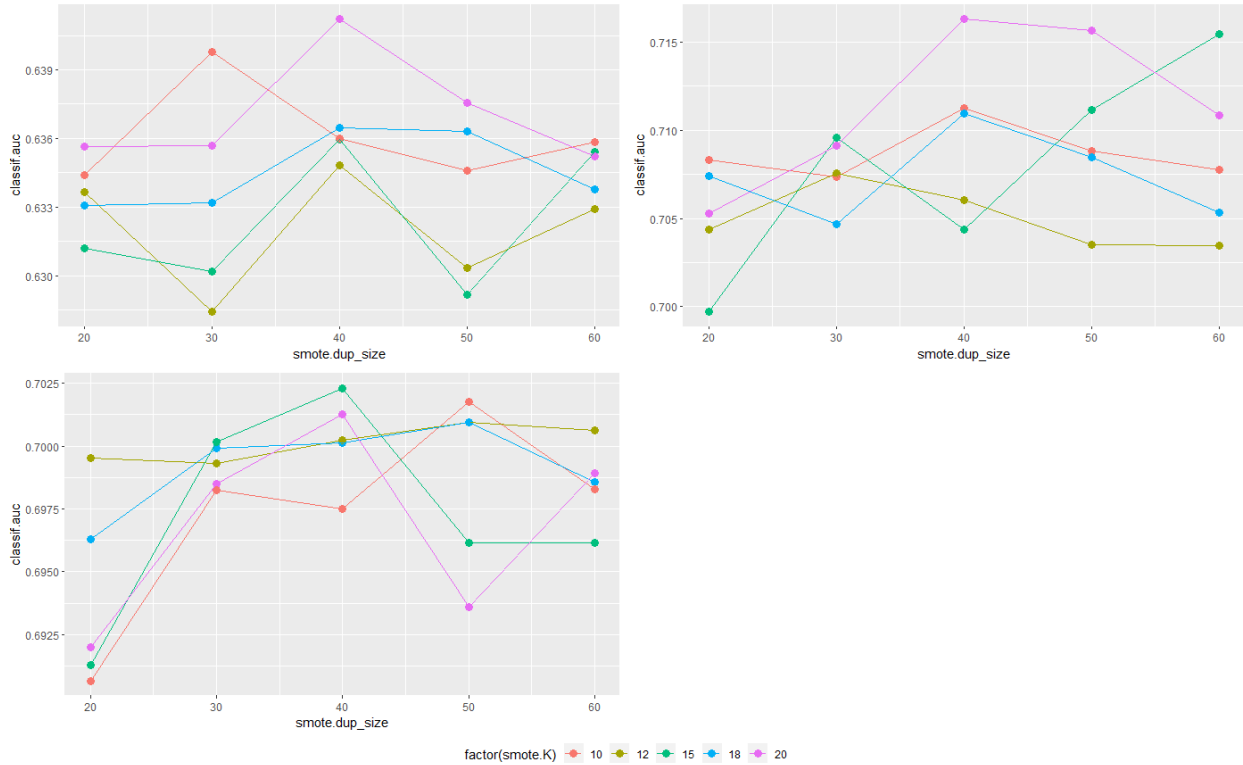
As we can see in the plot, we tried using **SMOTE** with different combinations of *smote.K* and *smote.dup_size*. Using three-fold cross-validation, we see three plots, and here we do not have a clear winner that outperforms all, but if we take a closer look at the pink curve (*smote.K=20*), we see that it is on top having *smote.dup_size* in the range of 40-50. Based on the trend, we will fix *smote.K* to 20 and *smote.dup_size* to 40 for further fine-tuning.

7.2.2 Model tuning

7.2.2.1 Oversampling

```r
# create oversampling with previously tuned value
po_over_tuned <- po("classbalancing",
                    id = "oversample", adjust = "minor",
                    reference = "minor", shuffle = FALSE, ratio = 25)
knn_over_lrn <- GraphLearner$new(po_over_tuned %>>% lrn("classif.kknn",
                        predict_type = "prob"), predict_type = "prob")

# set distance range for tuning
para_dist <- ParamSet$new(params = list(ParamInt$new("classif.kknn.distance", lower = 1, upper = 5)))


knn_over_dist <- AutoTuner$new(
  learner = knn_over_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = para_dist,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5))

design_over_dist <- benchmark_grid(
  tasks = task,
  learners = knn_over_dist,
  resamplings = outer_rsmp
```

```
)

bmr_over_dist <- run_benchmark(design_over_dist)

# plot distance v.s. AUC
over_dist_path1 = bmr_over_dist$data$learner[[1]]$archive("params")
over_dist_gg1 = ggplot(over_dist_path1, aes(
  x = classif.kknn.distance,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

over_dist_path2 = bmr_over_dist$data$learner[[2]]$archive("params")
over_dist_gg2 = ggplot(over_dist_path2, aes(
  x = classif.kknn.distance,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

over_dist_path3 = bmr_over_dist$data$learner[[3]]$archive("params")
over_dist_gg3 = ggplot(over_dist_path3, aes(
  x = classif.kknn.distance,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

# combine all plots into one
ggarrange(over_dist_gg1, over_dist_gg2, over_dist_gg3, common.legend = TRUE, legend="bottom")


# extract final tuned parameters
over_dist_para <- bmr_over_dist$score() %>%
    pull(learner) %>%
    map(pluck(c(function(x) x$tuning_result)))
```
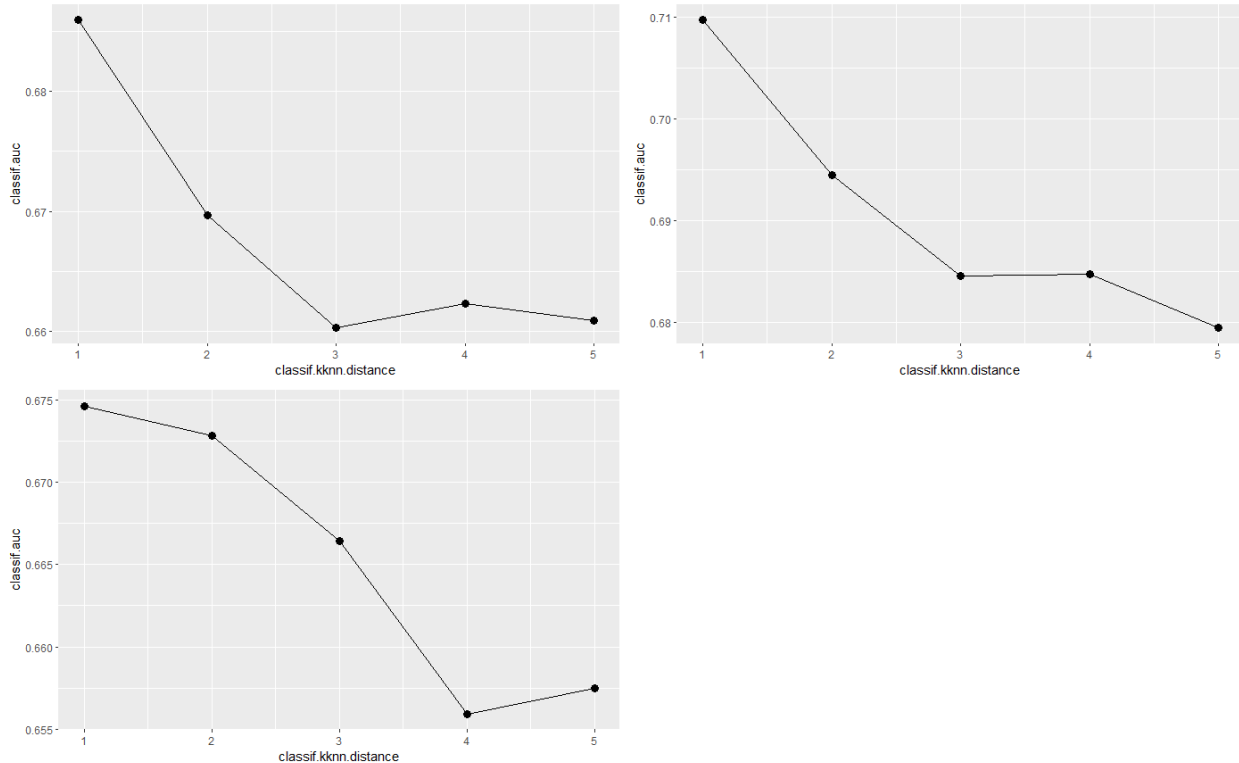
In this part, we first tune the parameter *distance* from KNN, and we can see that all three sections of the data have very similar. It has the highest AUC at *distance*=1, and gradually declines till *distance*=3. After 3 the AUC performs differently but does not surpass the value with the setting *distance*=1. Furthermore, here we will fix the parameter to 1, and explore other parameters in detail.

```r
# list all kernel from KNN
kernel_type <- c("rectangular", "triangular", "epanechnikov", "biweight"
                , "triweight", "cos", "inv", "gaussian", "rank", "optimal")

knn_over_lrn <- GraphLearner$new(po_over_tuned %>>% lrn("classif.kknn", predict_type = "prob", distance=
para_kernel <- ParamSet$new(params = list(ParamFct$new("classif.kknn.kernel", levels = kernel_type)))

knn_over_kernel <- AutoTuner$new(
  learner = knn_over_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = para_kernel,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 10))

design_over_kernel <- benchmark_grid(
  tasks = task,
  learners = knn_over_kernel,
  resamplings = outer_rsmp
)

bmr_over_kern <- run_benchmark(design_over_kernel)
over_kern_para <- bmr_over_kern$score() %>%
  pull(learner) %>%
  map(pluck(c(function(x) x$tuning_result)))

# extract top kernels from 3-fold cv
selected_kernel <- c(over_kern_para[[1]]$params$classif.kknn.kernel,
```

```
over_kern_para[[2]]$params$classif.kknn.kernel,
over_kern_para[[3]]$params$classif.kknn.kernel)

# list selected top kernel
selected_kernel
```
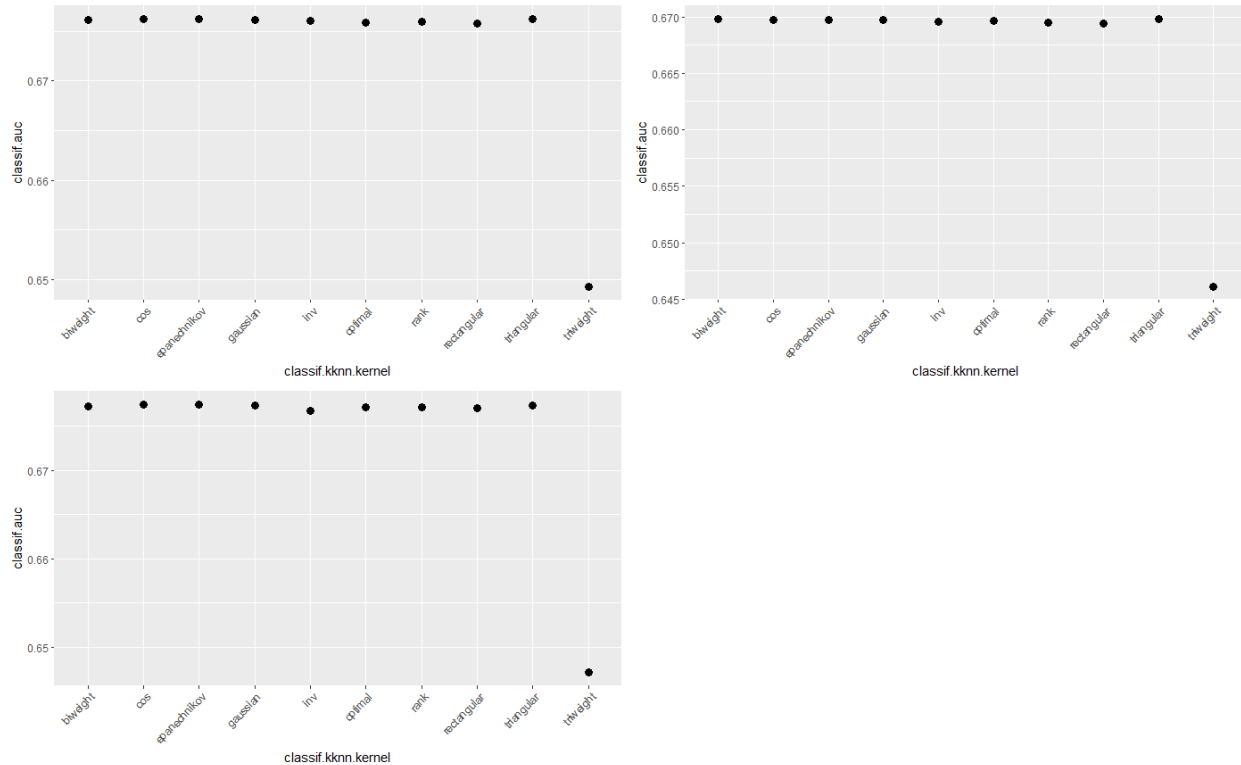


```
## [1] "triangular"    "biweight"       "epanechnikov"
```

In this section, we explore the parameter *kernel* from KNN. From the plot shown above, there is no apparent difference between different kernels, except *triweight* being the lowest in all three plots. To reduce the computational cost and perform further fine-tuning, we will select the top kernel from each plot, being *triangular*, *biweight*, and *epanechnikov*, and tune *k* with these selected kernels.

```
# tune k with selected kernels
knn_over_lrn <- GraphLearner$new(po_over_tuned %>>% lrn("classif.kknn",
                         predict_type = "prob", distance=1), predict_type = "prob")
para_k <- ParamSet$new(params = list(ParamInt$new("classif.kknn.k", lower = 20, upper = 100),
                                      ParamFct$new("classif.kknn.kernel", levels = selected_kern)))

knn_over_k <- AutoTuner$new(
  learner = knn_over_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = para_k,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5))

design_over_k = benchmark_grid(
  tasks = task,
  learners = knn_over_k,
  resamplings = outer_rsmp
)
```

```
bmr_over_k <- run_benchmark(design_over_k)

# plot k v.s. AUC (with kernel colored)
over_k_path1 = bmr_over_k$data$learner[[1]]$archive("params")
over_k_gg1 = ggplot(over_k_path1, aes(
  x = classif.kknn.k,
  y = classif.auc, col = classif.kknn.kernel)) +
  geom_point(size = 3) +
  geom_line()

over_k_path2 = bmr_over_k$data$learner[[2]]$archive("params")
over_k_gg2 = ggplot(over_k_path2, aes(
  x = classif.kknn.k,
  y = classif.auc, col = classif.kknn.kernel)) +
  geom_point(size = 3) +
  geom_line()

over_k_path3 = bmr_over_k$data$learner[[3]]$archive("params")
over_k_gg3 = ggplot(over_k_path3, aes(
  x = classif.kknn.k,
  y = classif.auc, col = classif.kknn.kernel)) +
  geom_point(size = 3) +
  geom_line()

# combine all plots into one
ggarrange(over_k_gg1, over_k_gg2, over_k_gg3, common.legend = TRUE, legend="bottom")
```
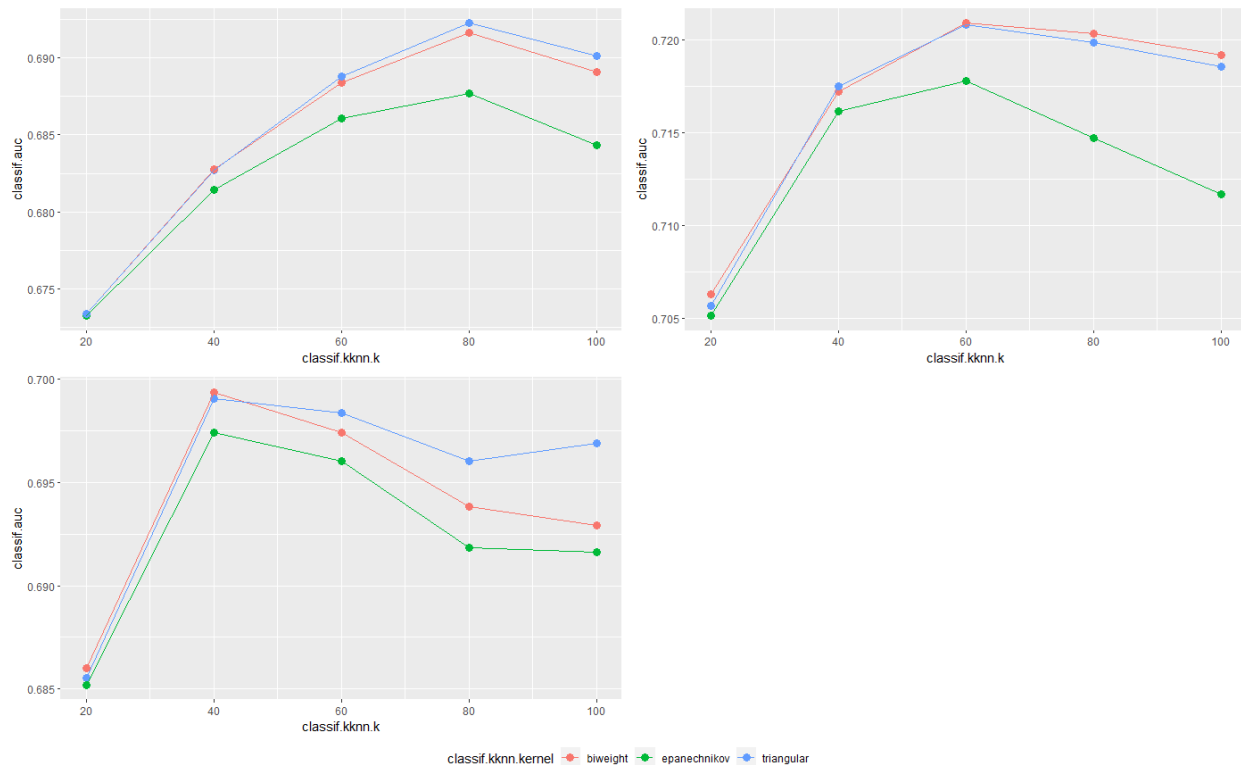

Finally, we want to tune k with kernels we selected in the previous section. Beside *epanechnikov* being lowest in all plot, there is no straightforward winner between *triangular* and *biweight*. We can see that AUC is the

highest in the range of 40 to 80. If we take a closer look in this range, we notice that *triangular* is slightly better. Based on the trend of the 3 plots above, it is reasonable to select *triangular* as our kernel, with *k* set to 80.

7.2.2.2   SMOTE

```r
inner_rsmp <- rsmp("cv",folds = 3L)
outer_rsmp <- rsmp("cv", folds = 3L)

# list all kernel types
kernel_type <- c("rectangular", "triangular", "epanechnikov", "biweight"
                 , "triweight", "cos", "inv", "gaussian", "rank", "optimal")

# set parameter tuning for each parameter
para_k <- ParamSet$new(params = list(ParamInt$new("classif.kknn.k", lower = 20, upper = 100)))
para_dist <- ParamSet$new(params = list(ParamInt$new("classif.kknn.distance", lower = 1, upper = 5)))
para_kernel <- ParamSet$new(params = list(ParamFct$new("classif.kknn.kernel", levels = kernel_type)))

# define smote, and combine it with knn learner
po_smote_tuned <- po("smote", dup_size = 40, K = 15)
knn_smote_lrn <- GraphLearner$new(po_smote_tuned %>>% lrn("classif.kknn",
                      predict_type = "prob"), predict_type = "prob")

# tune distance
knn_smote_dist <- AutoTuner$new(
  learner = knn_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = para_dist,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5))

design_smote_dist <- benchmark_grid(
  tasks = task,
  learners = knn_smote_dist,
  resamplings = outer_rsmp
)

bmr_smote_dist <- run_benchmark(design_smote_dist)

# plot distance v.s. AUC
smote_dist_path1 = bmr_smote_dist$data$learner[[1]]$archive("params")
smote_dist_gg1 = ggplot(smote_dist_path1, aes(
  x = classif.kknn.distance,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

smote_dist_path2 = bmr_smote_dist$data$learner[[2]]$archive("params")
smote_dist_gg2 = ggplot(smote_dist_path2, aes(
  x = classif.kknn.distance,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line()

smote_dist_path3 = bmr_smote_dist$data$learner[[3]]$archive("params")
smote_dist_gg3 = ggplot(smote_dist_path3, aes(
```

```
    x = classif.kknn.distance,
    y = classif.auc)) +
geom_point(size = 3) +
geom_line()

ggarrange(smote_dist_gg1, smote_dist_gg2, smote_dist_gg3, common.legend = TRUE, legend="bottom")
```
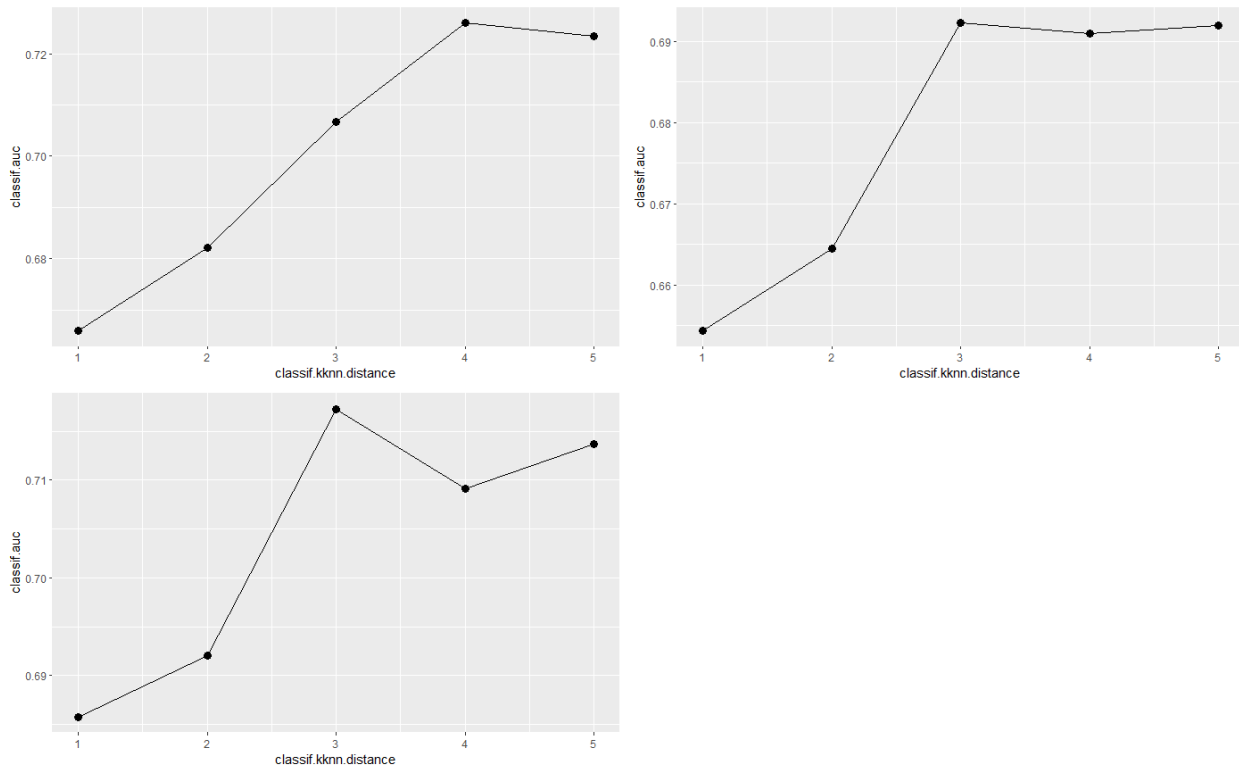

First, we only tune the parameter *distance* with all other parameters fixed to default to evaluate the influence of the parameter *distance*. In the plot above, we can see that the AUC grows as we increase the value of *distance*. Still, after 3, there is no significant improvement and even declines in one plot. Based on this, we will fix the value to 3 to perform further fine-tuning.

```
# tune kernel with selected distance
knn_smote_lrn <- GraphLearner$new(po_smote_tuned %>>% lrn("classif.kknn",
                  predict_type = "prob", distance=3), predict_type = "prob")
knn_smote_kernel <- AutoTuner$new(
  learner = knn_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = para_kernel,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 10))

design_smote_kernel <- benchmark_grid(
  tasks = task,
  learners = knn_smote_kernel,
  resamplings = outer_rsmp
)

bmr_smote_kern <- run_benchmark(design_smote_kernel)

# plot kernel v.s. AUC
```

```
thm = theme(axis.text.x = element_text(angle = 45, hjust = 1))
smote_kern_path1 = bmr_smote_kern$data$learner[[1]]$archive("params")
smote_kern_gg1 = ggplot(smote_kern_path1, aes(
  x = classif.kknn.kernel,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line() + thm

smote_kern_path2 = bmr_smote_kern$data$learner[[2]]$archive("params")
smote_kern_gg2 = ggplot(smote_kern_path2, aes(
  x = classif.kknn.kernel,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line() + thm

smote_kern_path3 = bmr_smote_kern$data$learner[[3]]$archive("params")
smote_kern_gg3 = ggplot(smote_kern_path3, aes(
  x = classif.kknn.kernel,
  y = classif.auc)) +
  geom_point(size = 3) +
  geom_line() + thm
```

```
ggarrange(smote_kern_gg1, smote_kern_gg2, smote_kern_gg3, common.legend = TRUE, legend="bottom")
```
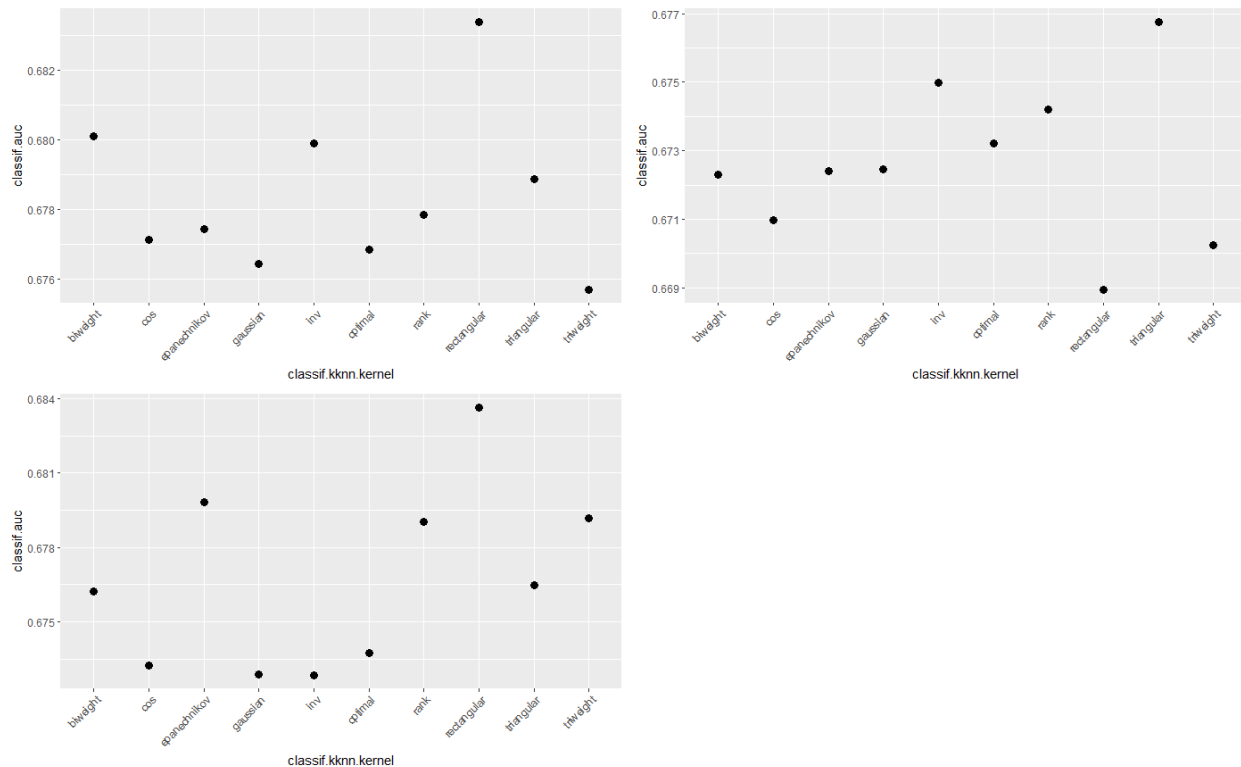

Now with the *distance* fixed to 3, we compare how each kernel influences the AUC. As we can see, the scale of the y-axis is considerably small, meaning that there is no vast difference between kernels. But to reduce the computation cost, we will the one with the highest AUC in each plot, being: *rectangular*, *triangular*, and we will additionally take *gaussian* for comparison.

```r
# tune k with selected distance and kernel
selected_kern <- c("rectangular", "triangular", "gaussian")
para_k <- ParamSet$new(params = list(ParamInt$new("classif.kknn.k", lower = 20, upper = 100),
                                     ParamFct$new("classif.kknn.kernel", levels = selected_kern)))

knn_smote_lrn <- GraphLearner$new(po_smote_tuned %>>% lrn("classif.kknn",
                    predict_type = "prob", distance=3), predict_type = "prob")
knn_smote_k <- AutoTuner$new(
  learner = knn_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = para_k,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5))

design_smote_k <- benchmark_grid(

  tasks = task,
  learners = knn_smote_k,
  resamplings = outer_rsmp
)

bmr_smote_k <- run_benchmark(design_smote_k)

# k and selected kernel v.s AUC
smote_k_path1 = bmr_smote_k$data$learner[[1]]$archive("params")
smote_k_gg1 = ggplot(smote_k_path1, aes(
  x = classif.kknn.k,
  y = classif.auc, col = classif.kknn.kernel)) +
  geom_point(size = 3) +
  geom_line()

smote_k_path2 = bmr_smote_k$data$learner[[2]]$archive("params")
smote_k_gg2 = ggplot(smote_k_path2, aes(
  x = classif.kknn.k,
  y = classif.auc, col = classif.kknn.kernel)) +
  geom_point(size = 3) +
  geom_line()

smote_k_path3 = bmr_smote_k$data$learner[[3]]$archive("params")
smote_k_gg3 = ggplot(smote_k_path3, aes(
  x = classif.kknn.k,
  y = classif.auc, col = classif.kknn.kernel)) +
  geom_point(size = 3) +
  geom_line()

ggarrange(smote_k_gg1, smote_k_gg2, smote_k_gg3, common.legend = TRUE, legend="bottom")
```
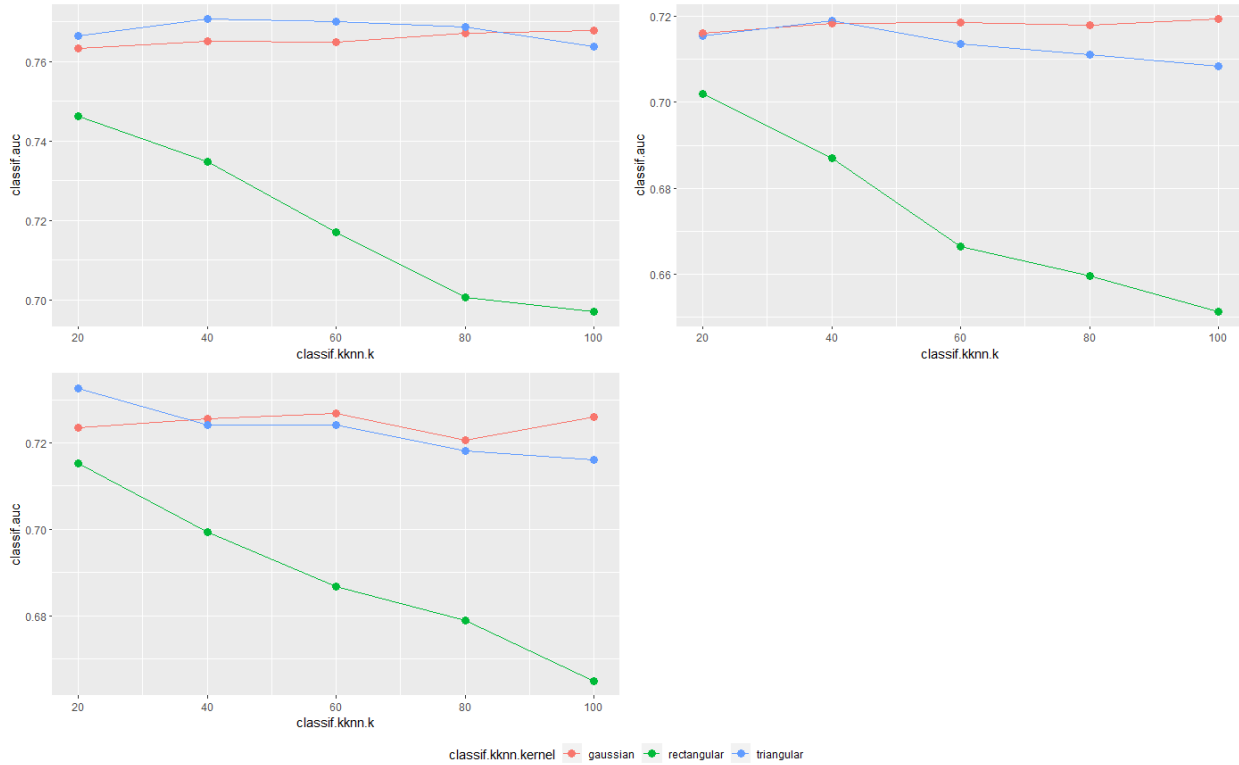
In the final step, we tuned *k* and *kernel* together. Here, we can see that *rectangular* falls behind both other kernels. Between *gaussian* and *triangular*, there is no obvious winner. The default value of *k* is 7, and here we selected our range 20-100 by experimenting with our data before tuning. In the previous plot (Default: *k*=7), we see there is no significant difference in the AUC between kernels.

Furthermore, the plot above shows as *k* increase the difference between kernels becomes larger. This suggests that it would be meaningful to tune all *kernel* among *k*. However, since there is no enormous improvement in AUC and the limitation of computation power, we only tuned 3 in our experiment.

7.3 SVM

When it comes to use the SVM learner to do the model tuning, we need to firstly load the dataset *dl_iv_data* remained as our ultimate training dataset and then set the training task with the particular dataset and specify the target variable *y* with regards to the prediction results. As for the final step of the pre-preparation process for machine learning with **mlr3**, we need to make the learner fixed with value **classif.svm**, which can be initialized by function **lrn** loaded in the **mlr3learners** package, underlining the participation of the SVM algorithm.

The following model tuning steps are made up of two prime procedures: data balancing, which consists of two methods: **SMOTE** and **Oversampling**, and model tuning steps with different parameters.

7.3.1 Data balancing

Considering the extremely imbalanced target variable *y* to process, we will firstly balance the present target. In order to improve the accuracy of the prediction performance, we will need to implement mainly two methods: **SMOTE** and **Oversampling** to get the relatively balanced target variable after processing and there are no biased preference with the two data balancing methods, which means that we need to both implement the two methods on our original target variable *y* and choose the best one with the highest AUC score after the final model tuning process.

7.3.1.1 SMOTE

To implement the **SMOTE** function to balance the whole dataset, the first step is to determine the two crucial parameters *smote.dup_size* and *smote.K*. *smote.dup_size* means a vector of times of synthetic minority instances over original majority instances in the oversampling in each instances while *smote.K* defines the value of parameter K for nearest neighbor process used for generating data. To explain the *smote.dup_size* further, the *dup_size* parameter answers the question how many times the **SMOTE** function should loop through the existing, real minority instances. Therefore at *dup_size* $= 1$ means only 4 new data points are synthesised (1 for each existing minority instance). At *dup_size* $= 200$, 800 new data points get synthesised. However, as for K, at each loop iteration, one of the K closest minority class neighbours is chosen and a new minority instance is synthesised somewhere between the minority instance and that neighbour. Thus, K means how many of the closest neighbours are considered for synthesis. Considering the above explanations for *smote.dup_size* and *smote.K*, we would firstly set the training ranges for *smote.dup_size* and *smote.K* as 10 to 60 and 10 to 25 simultaneously to adapt to the present target variable y, which we have where the number of 0s is almost 60 times the number of 1s.

With *smote.dup_size* defined from 10 to 60 and *smote.K* from 10 to 25, it is better to implement a **grid_search** to figure out what is the optimal parameter settings for the 2 parameters based on the **svm** learner and the *dl_iv_data* training task.

```
# suppress svm package
suppressPackageStartupMessages(library(e1071))

## test for best matches with smote function's parameter with SVM learner
svm_lrn <- lrn("classif.svm", predict_type = "prob")

# train with smote function's 2 parameters
param_smote <- ParamSet$new(params = list(
  ParamInt$new("smote.dup_size", lower = 10, upper = 60),
  ParamInt$new("smote.K", lower = 10, upper = 25)
))

# inner resampling set
inner_rsmp <- rsmp("cv", folds = 3L)
po_smote <- po("smote", dup_size = 50)

# create smote learner fixed in svm learner
svm_smote_lrn <- GraphLearner$new(po_smote %>>% svm_lrn, predict_type = "prob")

# create Autolearner
svm_auto_smote <- AutoTuner$new(
  learner = svm_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = param_smote,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5)
)
```

factor(smote.K) —●— 10 —●— 13 —●— 17 —●— 21 —●— 25
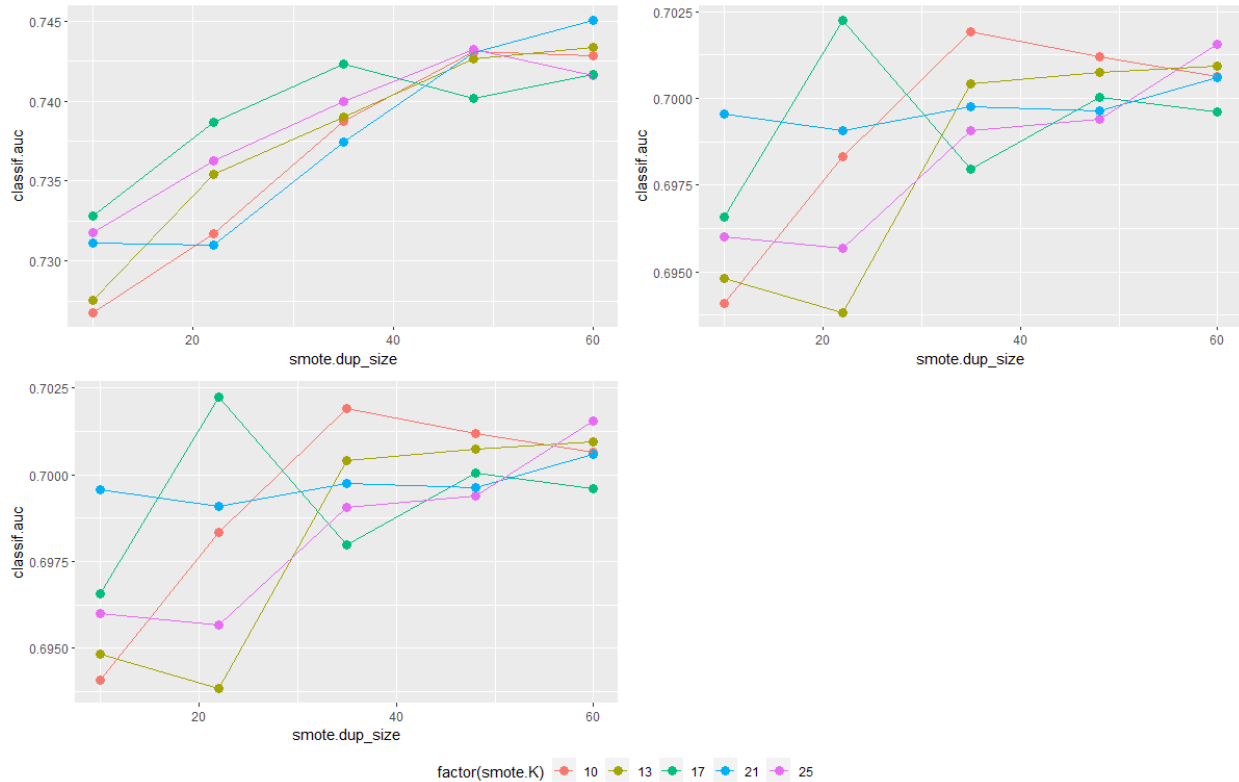
As can be seen from the plots above, *smote.dup_size* is showing better prediction performance when defined as 40 and *smote.K* shall be defined as 21 which is having more stable training performance with color blue correspondingly.

Then the next step would be to determine which *kernel* function type to use with fixed *smote.dup_size* value and *smote.K* value.

7.3.1.2 Oversampling

We have decided not to use the **oversampling** method to balance the origianl target variable y for two reasons. The first one is that it is computationally expensive to undergo the whole tuning process again with the **SVM** algorithm. Specifically, it almost took us two whole days to train the optimal parameter settings for the **SMOTE** function and the prediction performance measured by AUC after tuning is not as satisfactory as we have expected before. On the other hand, the best prediction performance given by the **SVM** algorithm with default parameter settings is inferior to the worst classification results shown by the **Random Forest** algorithm with no model tuning procedures.

7.3.2 Model tuning

Regarding the choice of suitable kernel function with SVM, there are in total four options to choose: *linear*, *polynomial*, *radial*, *sigmoid*. The default value for the **mlr3** SVM learner is the *radical* function. Thence, we need to implement the other three kernel functions on the previous training models with the **dl_iv_data** task and again use the *grid_search* to check which *kernel* function will generate better prediction performance shown with higher AUC value.

```
# train with kernel type
kernel_type <- c("linear", "polynomial", "radial", "sigmoid")
param_kernel <- ParamSet$new(params = list(ParamFct$new("classif.svm.kernel", levels = kernel_type)))
po_smote <- po("smote", dup_size = 45, K = 21)
```

```
# create smote learner fixed in rf_trees_fixed_lrn
svm_smote_lrn <- GraphLearner$new(po_smote %>>% svm_lrn, predict_type = "prob")

# create Autolearner for step 1
svm_auto_kernel <- AutoTuner$new(
  learner = svm_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = param_kernel,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5)
)
```
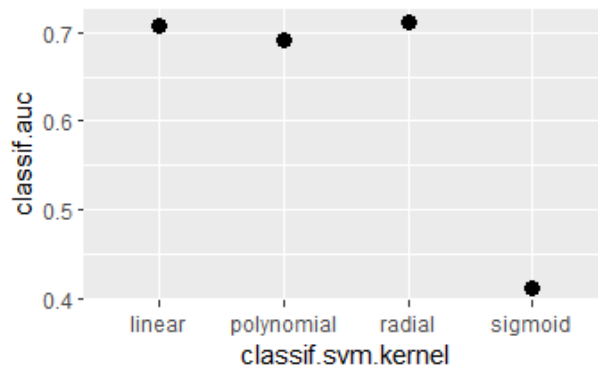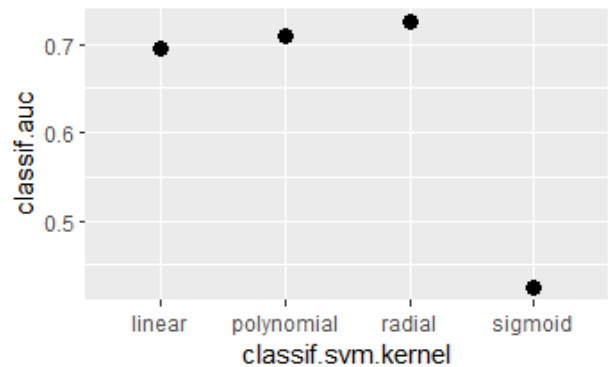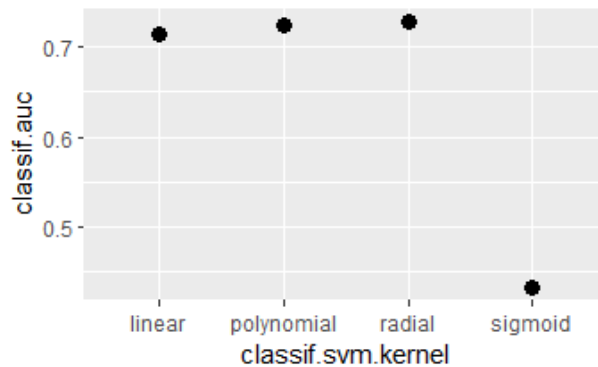

As can seen from the plots which refer to the comparison with different *kernel* functions, the best performance is given by the *radial* function for the **dl_iv_data** task. Nevertheless, we still need to figure out the optimal choice with parameter *cost* and *gamma* and as for the tuning range for *cost*, the first try would be to set with 0.1, 1, 10 and 100 **reference**.

```
svm_lrn <- lrn("classif.svm", predict_type = "prob", kernel = "radial", type = "C-classification")

# train with different set with parameter cost
param_cost <- ParamSet$new(params = list(ParamDbl$new("classif.svm.cost", lower = 0, upper = 3)))

param_cost$trafo = function(x, param_set){
  x$classif.svm.cost = 10**(x$classif.svm.cost)/10
  x
}

# create smote learner fixed un svm learner
svm_smote_lrn <- GraphLearner$new(po_smote %>>% svm_lrn, predict_type = "prob")

# create Autolearner
```

```
svm_auto_smote <- AutoTuner$new(
  learner = svm_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = param_cost,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 3)
)
```

Shown on the three plots above, two of them are suggesting that by setting *classif.svm.cost* to 0.1 will lead to the highest AUC score. Thus, it is better to choose *cost* with value 0.1. Hence, the last step would be to tune *gamma* for the **dl_iv_data** training task. Configuring the training set with [1, 0.1, 0.01, 0.001] for *gamma* as suggested by [**reference**], we would like to see the changing trend of the tuning performance and determine for the ultimate *gamma* accordingly.

```
svm_lrn <- lrn("classif.svm", predict_type = "prob", kernel = "radial", cost = 0.1, type = "C-classifica

# train with gamm
param_gamma <- ParamSet$new(params = list(ParamDbl$new("classif.svm.gamma", lower = 0, upper = 3)))

param_cost$trafo = function(x, param_set){
  x$classif.svm.gamma = 10 ** (x$classif.svm.gamma) / 10**3
  x
}

po_smote <- po("smote", dup_size = 45, K = 21)

# create smote learner
svm_smote_lrn <- GraphLearner$new(po_smote %>>% svm_lrn, predict_type = "prob")

# create Autolearner for step 1
svm_auto_smote <- AutoTuner$new(
  learner = svm_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = param_gamma,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 4)
)
```

As suggested by the three plots simultaneously, *classif.auc* will always reach the summit when *classif.svm.gamma* is chosen with value 0.75.

In conclusion, it is better to go with *radial* kernel function, *cost* being set to 0.1 and *gamma* being set to 0.75 on the condition that *smote.dup_size* is set to 40 and *smote.K* to 21. And the ultimate prediction performance measured by AUC is therefore 0.7839 with an increase of 0.0x in regards to the previous svm model with default parameter settings.

7.4   Random Forest

Similarily, we would consider both the **SMOTE** function and the **Oversampling** method to tackle the extremely imbalanced target variables *y*. And after the data balancing procedures, we will further do the model tuning for this algorithm.

7.4.1   Data balancing

7.4.1.1   SMOTE

As mentioned in chapter 3, we fix the parameter *num.trees* with value 1000 as suggested by [reference] and set training range 30 to 60 for *smote.dup_size* and 10 to 20 for *smote.K* seperately in order to find the best training pairs with the two parameters, reaching the best prediction performance.

```r
library(ranger)

# step 1: test for best matches with smote function's parameter
# learner with fixed number of trees: 1000
rf_lrn <- lrn("classif.ranger", predict_type = "prob", num.trees = 1000)

# train with smote function's 2 parameters
param_smote <- ParamSet$new(params = list(
  ParamInt$new("smote.dup_size", lower = 30, upper = 60),
  ParamInt$new("smote.K", lower = 10, upper = 20)
))

# inner resampling set
inner_rsmp <- rsmp("cv", folds = 3)
po_smote <- po("smote", dup_size = 50)

# create smote learner fixed in rf_trees_fixed_lrn
rf_smote_lrn <- GraphLearner$new(po_smote %>>% rf_lrn, predict_type = "prob")

# create Autolearner for step 1
rf_auto_smote <- AutoTuner$new(
  learner = rf_smote_lrn, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = param_smote,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 5)
)

# outer resampling set
outer_rsmp <- rsmp("cv", folds = 3L)

# design for smote
design_smote <- benchmark_grid(
  tasks = task,
  learners = rf_auto_smote,
  resampling = outer_rsmp
)


# run benchmark
bmr_smote <- ren_benchmark(design_smote, store_models = TRUE)

# plot smote parameters v.s. AUC
smote_path1 <- bmr_smote$data$learner[[1]]$archive("params")
rf_ggp1 <- ggplot(smote_path1, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()

smote_path2 <- bmr_smote$data$learner[[2]]$archive("params")
rf_ggp2 <- ggplot(smote_path2, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
```

```
)) +
  geom_point(size = 3) +
  geom_line()

smote_path3 <- bmr_smote$data$learner[[2]]$archive("params")
rf_ggp3 <- ggplot(smote_path3, aes(
  x = smote.dup_size,
  y = classif.auc, col = factor(smote.K)
)) +
  geom_point(size = 3) +
  geom_line()

ggarrange(rf_ggp1, rf_ggp2, rf_ggp3, common.legend = TRUE, legend = "bottom")
```
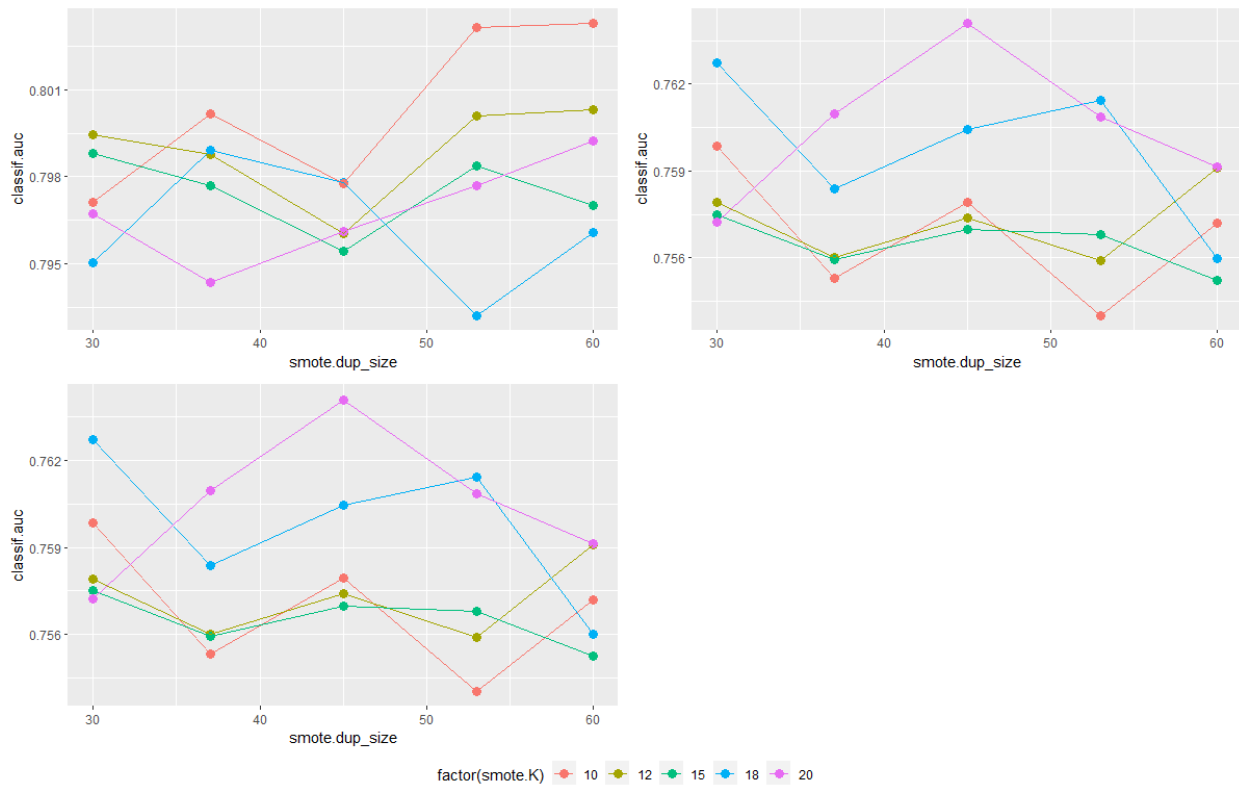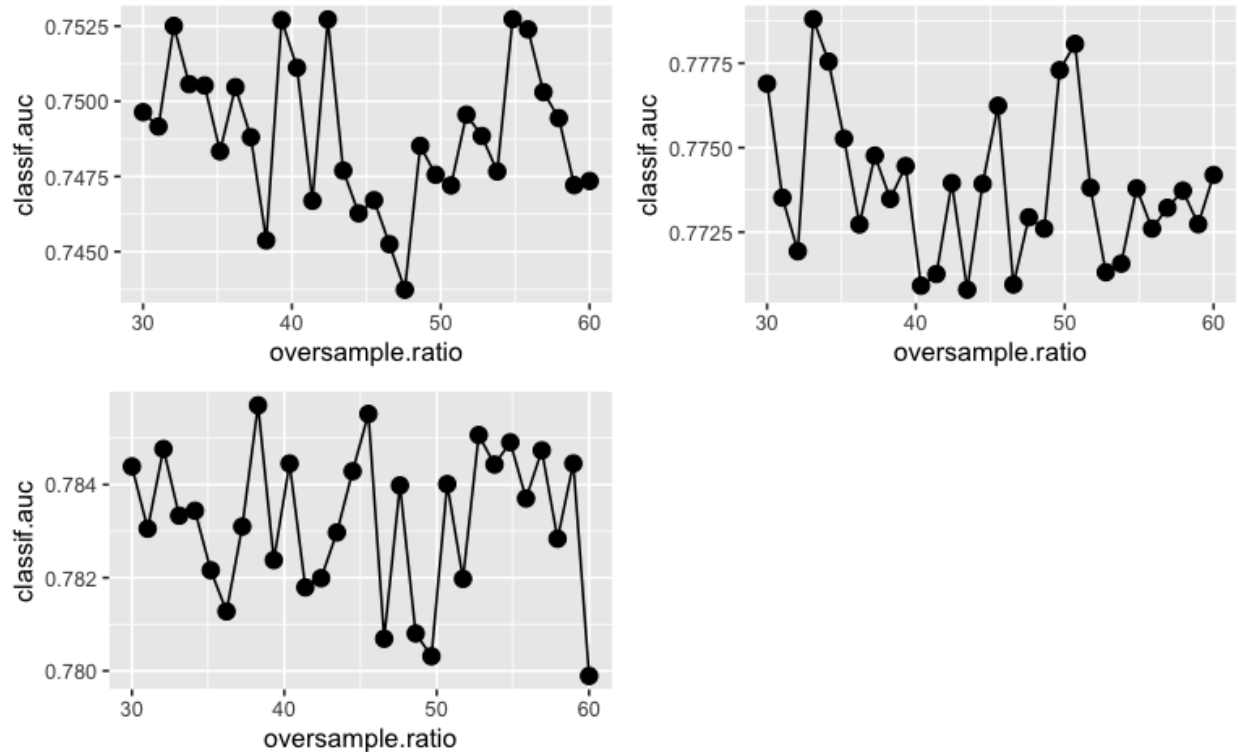

We can see from the three plots above, two plots is showing that *smote.dup_size* ranging from 37 to 53 together with *smote.k* from 15 to 20 tends to have better AUC values. So we would go with the corresponding parameter range with 37 to 53 for **smote.dup_size**, which will have the relatively high score with the prediction performance. However, we cannot decide the optimal range of parameter setting for **smote.k** since the changing trend for **K** is not so clear with different colors. Then we need to fix the *smote.dup_size* to 37 to 53 and reset the *smote.k* with 5 to 25, repeating the *grid_search* again to explore the two parameters further.

```
# learner with fixed number of trees: 1000
rf_lrn <- lrn("classif.ranger", predict_type = "prob", num.trees = 1000)

# train with smote function's 2 parameters
param_smote <- ParamSet$new(params = list(
  ParamInt$new("smote.dup_size", lower = 37, upper = 53),
  ParamInt$new("smote.K", lower = 5, upper = 25)
))
```

```
# create smote learner fixed in rf_trees_fixed_lrn
rf_smote_lrn <- GraphLearner$new(po_smote %>>% rf_lrn, predict_type = "prob")
```
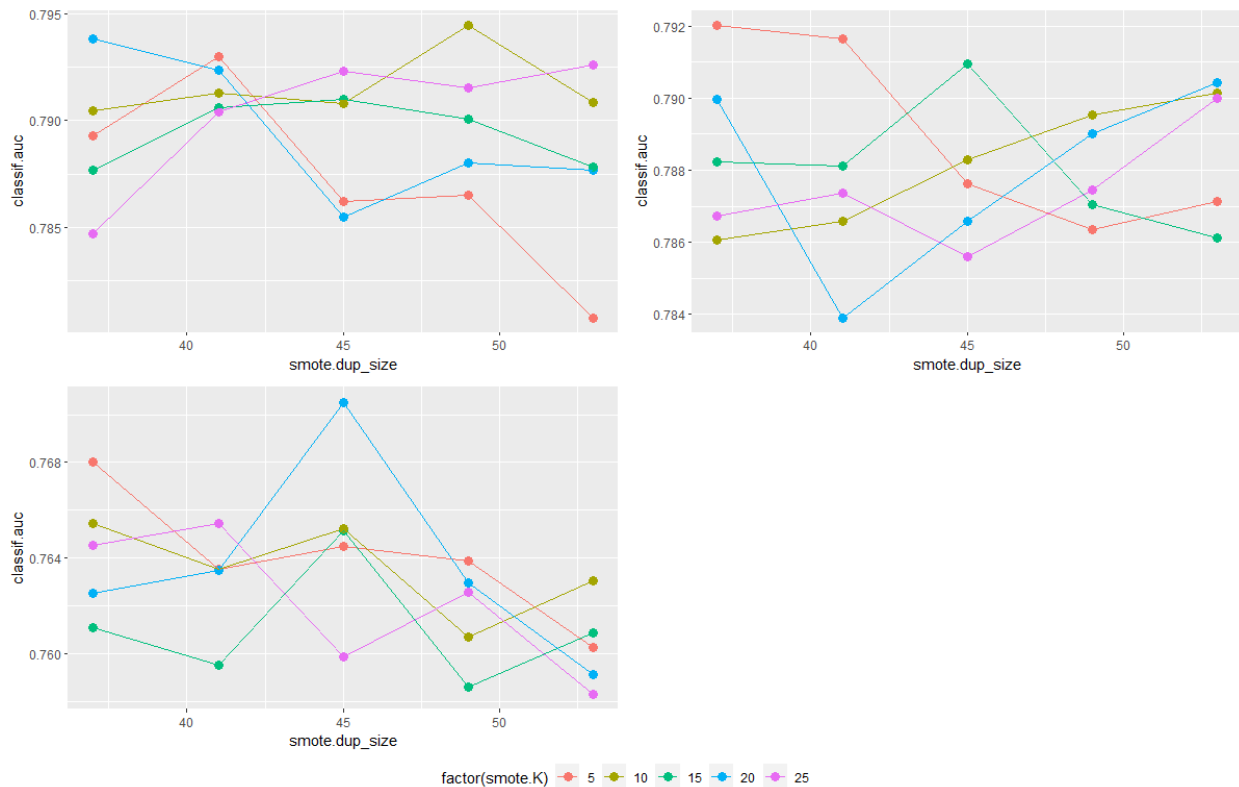

Shown on the plots above, we have discovered that the two parameters *smote.dup_size* and *smote.k* should be set to 45 and 15 seperately where the AUC distributions always tend to have a summit around *dup_size* value 45 and *K* with value 15 is much more stable with the prediction performance here at the same time. Then the next step we shall need to stay with the optimal smote parameter settings (*smote.dup_size* is set to 45 and *smote.k* to 15) and take the mtry and the *num.trees* parameters into consideration with parameters' tuning ranges set to 1-13 and 400-1700 as suggested by chapter 5.4 with the **tuneRanger** algorithm in order to get the best pair settings with the highest AUC value.

7.4.1.2 Oversampling

When it comes to use the oversampling method to address the imbalance distribution probelm occurred with the target variable *y*, we need to train the parameter *oversample.ratio*, which ranges from 1 to infinity, indicating the desired ratio between the majority example marked with 0 and the minority example marked with 1. In our case, the number of potential customers who got approved with the credit card is nearly 60 times the number of those who got rejected. Thus, when first try tuning for parameter *oversample.ratio*, we would set the corresponding parameter to a range starting from 30 to 60.

```
# random forest learner
rf_learner <- lrn("classif.ranger", predict_type = "prob")

# set oversampling method
po_over <- po("classbalancing",
  id = "oversample", adjust = "minor",
  reference = "minor", shuffle = FALSE, ratio = 6
)
```

499

```r
# create oversample fixed in learner
rf_over_learner <- GraphLearner$new(po_over %>>% rf_learner, predict_type = "prob")

# set oversampling parameter for rf
rf_over_param_set <- ParamSet$new(list(ParamDbl$new("oversample.ratio", lower = 30, upper = 60)))


# set inner_rsmp
inner_rsmp <- rsmp("cv", folds = 5L)

# create autotuner
rf_over_auto <- AutoTuner$new(
  learner = rf_over_learner, resampling = inner_rsmp,
  measures = msr("classif.auc"), tune_ps = rf_over_param_set,
  terminator = term("none"), tuner = tnr("grid_search", resolution = 12)
)

# set outer_resampling, and create a design with it
outer_rsmp <- rsmp("cv", folds = 3L)
rf_over_design <- benchmark_grid(
  tasks = task,
  learners = rf_over_auto,
  resamplings = outer_rsmp
)
```

With *store_models = TRUE* we allow the benchmark function to store each single model that was computed during tuning. Therefore, we can plot the tuning path of the best learner from the subsampling iterations:

```r
rf_over_bmr <- run_benchmark(rf_over_design)

# aggregate to get results of model
rf_over_results <- rf_over_bmr$aggregate(measures = msr("classif.auc"))

# plot oversample.ratio v.s. AUC
over_path1 <- rf_over_bmr$data$learner[[1]]$archive("params")
over_gg1 <- ggplot(over_path1, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
  geom_point(size = 3) +
  geom_line()

over_path2 <- rf_over_bmr$data$learner[[2]]$archive("params")
over_gg2 <- ggplot(over_path2, aes(
  x = oversample.ratio,
  y = classif.auc
)) +
  geom_point(size = 3) +
  geom_line()

over_path3 <- rf_over_bmr$data$learner[[3]]$archive("params")
over_gg3 <- ggplot(over_path3, aes(
  x = oversample.ratio,
  y = classif.auc
```

```
)) +
  geom_point(size = 3) +
  geom_line()

library(ggpubr)
ggarrange(over_gg1, over_gg2, over_gg3, common.legend = TRUE, legend = "bottom")
```


We can clearly see from all the three plots above, the **oversampling** method is not showing a stable changing trend with the corresponding *oversample.ratio*. The overall prediction performances given by the AUC value of the three figures is quite fluctuated and there are no fixed parameter range to choose with the best prediction score. Therefore, it is not suitable to use the **oversampling** method to resolve the imbalanced variables *y*.

Thence, we will focus on using the already tuned parameter settings for the **SMOTE** function to undergo the further model tuning procedures with different parameters *num.trees*, *mtry*, *min.node.size* and *sample.fraction* for random forest. The following is the detailed model tuning process.

7.4.2 Model tuning

```
# RF with 4 different paramSets, to analysis how to do further tuning
# tuning for best num.trees and mtry pairs
rf_lrn <- lrn("classif.ranger", predict_type = "prob")

# train with ranger function's 2 parameters
param_nt_mtry <- ParamSet$new(params = list(
  ParamInt$new("classif.ranger.num.trees", lower = 400, upper = 1700),
  ParamInt$new("classif.ranger.mtry", lower = 1, upper = 13)
))
```

501

```
po_smote <- po("smote", dup_size = 45, K = 15)

# create smote learner fixed in rf_lrn
rf_smote_lrn <- GraphLearner$new(po_smote %>>% rf_lrn, predict_type = "prob")
```
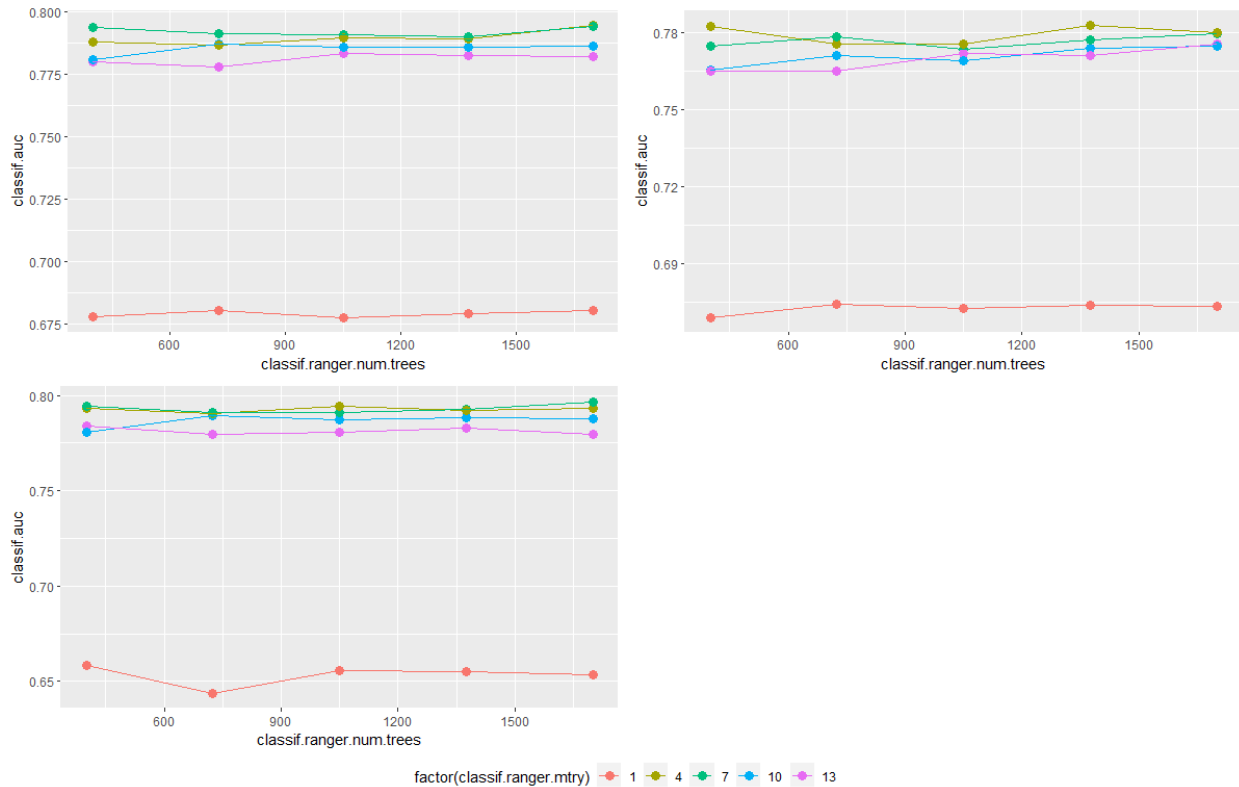

So, we would go with the combination of *num.trees* = 1000 and *mtry* = 7. And the next step would be to tune *min.node.size* and *sample.fraction* with the previous selected parameters settings. According to **tuneRanger** algorithm, we shall try setting tuning range for *min.node.size* from 2 to 8 and *sample.fraction* from 0.5 to 0.8 and see the corresponding AUC performance.

```
# RF with 4 different paramSets, to analysis how to do further tuning
# tuning for best min.node.size and sample.fraction pairs
rf_lrn <- lrn("classif.ranger", predict_type = "prob", num.trees = 1000, mtry = 7)

# train with smote function's 2 parameters
param_mns_sf <- ParamSet$new(params = list(
  ParamInt$new("classif.ranger.min.node.size", lower = 2, upper = 8),
  ParamDbl$new("classif.ranger.sample.fraction", lower = 0.5, upper = 0.8)
))

po_smote <- po("smote", dup_size = 45, K = 15)

# create smote learner fixed in rf_lrn
rf_smote_lrn <- GraphLearner$new(po_smote %>>% rf_lrn, predict_type = "prob")
```
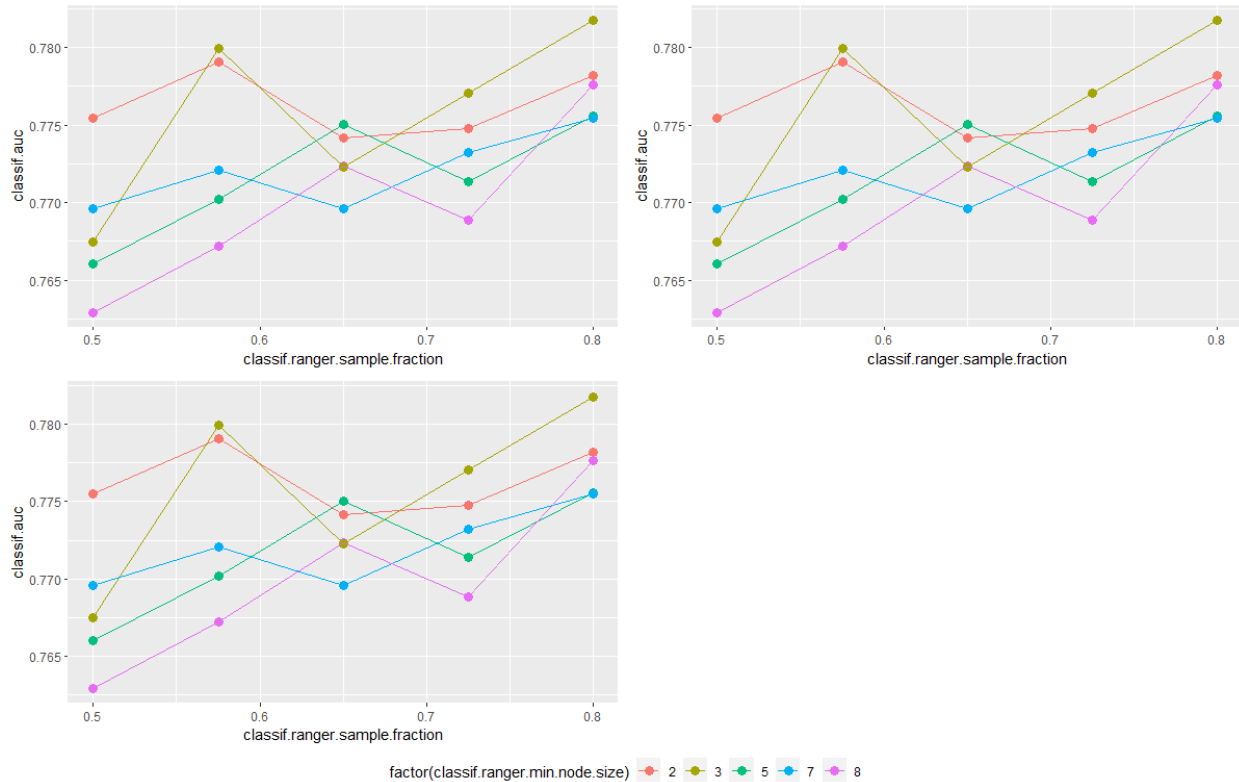
We would go with $min.node.size = 3$ as we can see the AUC value tends to reach the best performance when we set it to 3. However, it is still not clear the approximated defined range for parameter *sample.fraction* Next, we need to retrain the model with a wider range with parameter *sample.fraction* from 0.45 to 0.95.

```r
# RF with 4 different paramSets, to analysis how to do further tuning
## tuning for best sample.fraction
rf_lrn <- lrn("classif.ranger",
  predict_type = "prob", num.trees = 1000,
  mtry = 7, min.node.size = 3
)

# train with smote function's 2 parameters
param_sf <- ParamSet$new(params = list(ParamDbl$new("classif.ranger.sample.fraction",
  lower = 0.45, upper = 0.95
)))

# inner resampling set
inner_rsmp <- rsmp("cv", folds = 3)
po_smote <- po("smote", dup_size = 45, K = 15)

# create smote learner fixed in rf_lrn
rf_smote_lrn <- GraphLearner$new(po_smote %>>% rf_lrn, predict_type = "prob")
```

503
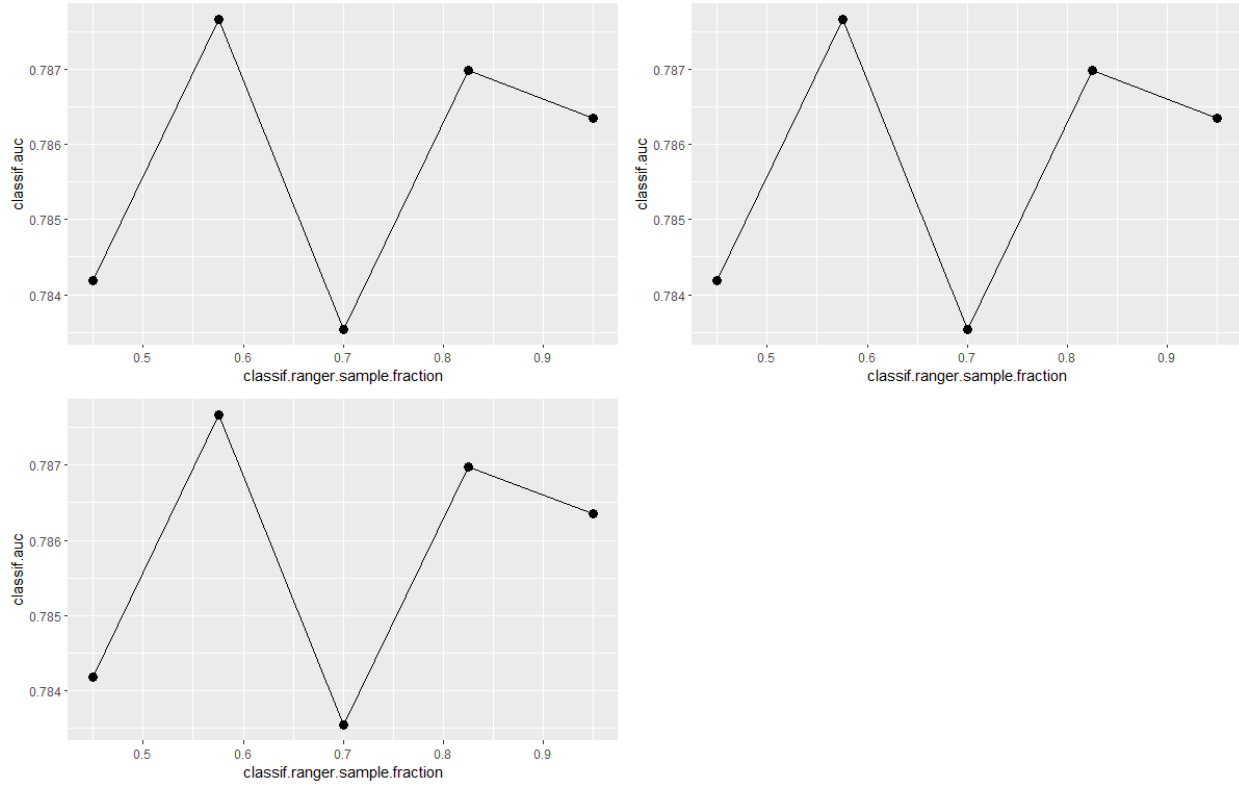
When reaching the highest AUC value, *sample.fraction* is always taking good performance values around 0.55 and 0.6 and the distributions of *min.node.size* are showing better performance results (measured by AUC) with value 3. Therefore, we would choose the *sample.fraction* with 0.575 and have a better AUC performance value with 0.83.

After the step-by-step hyperparameter tuning, we have finally managed to reach our best prediction performance with AUC value fixed at 0.83 which shows the improvement of 0.07 in comparison with the performance of Random Forest's default model with value 0.76. In conclusion, when *smote.dup_size* being set to 45 and *smote.K* to 15 with the SMOTE operator, the final parameter settings combination would be $num.trees = 1000$, $mtry = 7$, $min.node.size = 3$ and $sample.fraction = 0.575$, reaching an AUC level at 0.83.

8 Conclusion and Discussion

8.1 Conclusion

In general, we have implemented four different training models (Logistic Regression, KNN, SVM and Random Forest) on the same training task (dl_iv_data). Besides the basic training process with default parameter settings with different models, we have also discovered the necessary methods (SMOTE algorithm and Oversampling Operator) to tackle with the imbalanced target data distribution and tune the models with corresponding parameters afterwards. By plotting the changing trend of different parameters separately, we shall be able to determine the best parameter setting combinations and achieve the highest AUC score with the ultimate chosen model. After determining for the related parameters which are used for data balancing and finishing the model tuning procedures with parameters accordingly, we have run into the conclusion that Random Forest has shown a considerably better prediction performance, with an average of 10% improvement among all other training models, in regard to the decision on whether or not to issue the credit card to the potential customer. As for our mission to predict the ultimate decision concerning credit card approval, we would definitely choose Random Forest algorithm and implement the prediction afterwards with various customers.

8.2 Discussion

Based on our previous work, there are still many aspects can be improved in our article. First of all, more powerful models that we can use to solve some problems that we met. For example, it's computationally expensive to train the SVM model, a 3*3 nested resampling of SVM model takes 5 hours. Secondly, we have tried xgboost and we found it extremly fast to excute but with the worst prediction performance of all (AUC=0.5 and not improved after any kinds of model tuning). On the other hand, there are still a lot of cutting-edge models we haven't used, e.g. lightGBM(not included in mlr3 yet), Deep learning method(require high computational power). Last but not least, there are still areas to explore in our feature engineering procedure. For example, dimension reduction methods such as PCA, MDS and Factor analysis (included in mlr3 filters) can also be used.