ASSIGNMENT OUTPUT

```
TASK 1: Load the data using Python:using Pandas
------------------------------------------------------
                 Name   Age        DOB  Experience  Salary_CT  \
1      Sakthivelu Fabin   39  18/01/1972          10  115665.07
2          Graha Ezhil   26  24/11/1969          17   61926.35
3          Selva Cathi   60  27/05/1988          10  117920.47
4           Anu Garuda   56  12/08/1986           5  125312.51
5       Dakshinesh Dina   30  20/04/1975          12  121290.36
...                ...  ...         ...         ...        ...
9996        Selva Ezhil   30  26/02/1994           4   94920.45
9997    Dakshinesh Dina   28  21/02/1987          14   80103.56
9998    Dakshinesh Dina   41  29/12/1994          14  142525.02
9999           Anu Dina   56  03/11/1977           6  102323.96
10000   Dakshinesh Dina   35  14/12/1997          19   85391.36
```

```
                                          Skills
1        Python,Data Science,Data engineering,Java, Inf...
2                                     Machine Learning
3        Data Science,SQL, Information and cybersecurit...
4        AWS,Data Analytics, Information and cybersecur...
5                     Business application development,SQL
...                                                    ...
9996     Machine Learning, Information and cybersecurit...
9997                                                   SQL
9998     Data Science, Information and cybersecurity,SQ...
9999                          AWS,SQL,Python,Data Science
10000    AWS,Data Analytics,Data engineering,Business a...

Cleansing Process/Tansformation Process
--------------------------------------------------
Data Types:
Name                    object
Age                      int64
DOB             datetime64[ns]
Experience               int64
Salary_CT              float64
Skills                  object
dtype: object
Sum of Duplicates: 0
Sum of NAN values Name          0
Age            0
DOB            0
Experience     0
Salary_CT      0
Skills         0
dtype: int64
```

TASK 2: Filter the top 500 experienced and store it in another variable.

	Name	Age	DOB	Experience	Salary_CT	\
0	Reshma Anbu	52	1991-10-27	20	135892.26	
1	Prabavathi Dina	52	1965-01-08	20	144821.29	
2	Anu Anbu	43	1995-11-23	20	69630.58	
3	Jeyam Cathi	42	1972-10-05	20	120972.16	
4	Anu Garuda	48	1969-05-27	20	87612.12	
...	...	...	...	...	...	
9995	Dakshinesh Garuda	25	1985-12-09	1	109375.24	
9996	Prabavathi Balu	41	2004-04-18	1	99226.33	
9997	Anu Jana	43	1972-01-04	1	138448.68	
9998	Prabavathi Cathi	40	1973-02-03	1	112604.27	
9999	Dakshinesh Huma	35	1990-02-14	1	55780.57	

	Skills
0	SQL,Data Analytics,Data engineering,Java,JavaS...
1	JavaScript,Business application development
2	Business application development,Data Science,...
3	Java,JavaScript, Information and cybersecurity...
4	Data engineering,AWS,JavaScript,DevOps,SQL,Pyt...
...	...
9995	Information and cybersecurity,Machine Learnin...
9996	Python,DevOps,SQL,Data Science,Machine Learnin...
9997	Data engineering,Machine Learning
9998	Information and cybersecurity,SQL,Java,Data A...
9999	Java,Machine Learning,JavaScript, Information ...

	Name	Age	DOB	Experience	Salary_CT	\
1	Reshma Anbu	52	1991-10-27	20	135892.26	
2	Prabavathi Dina	52	1965-01-08	20	144821.29	
3	Anu Anbu	43	1995-11-23	20	69630.58	
4	Jeyam Cathi	42	1972-10-05	20	120972.16	
5	Anu Garuda	48	1969-05-27	20	87612.12	
..	...	...	...	...	...	
496	Graha Garuda	56	1966-07-22	20	91959.00	
497	Reshma Huma	35	1964-08-22	20	78369.60	
498	Brindha Fabin	46	1992-12-13	20	92923.52	
499	Graha Cathi	58	1982-08-15	20	92420.67	
500	Sakthivelu Garuda	37	2005-08-07	20	59949.75	

```
                                             Skills
1     SQL,Data Analytics,Data engineering,Java,JavaS...
2             JavaScript,Business application development
3     Business application development,Data Science,...
4     Java,JavaScript, Information and cybersecurity...
5     Data engineering,AWS,JavaScript,DevOps,SQL,Pyt...
..                                              ...
496                                      DevOps,Java
497   Python,Machine Learning,DevOps,Data Analytics,...
498   DevOps, Information and cybersecurity,Python,J...
499   Data engineering,DevOps,SQL,Business applicati...
500                                           DevOps
```

```
TASK 3: Then Count their skills and store them in the new column.
---------------------------------------------------------------------
                 Name  Age         DOB  Experience   Salary_CT  \
1          Reshma Anbu   52  1991-10-27          20   135892.26
2       Prabavathi Dina   52  1965-01-08          20   144821.29
3            Anu Anbu   43  1995-11-23          20    69630.58
4          Jeyam Cathi   42  1972-10-05          20   120972.16
5           Anu Garuda   48  1969-05-27          20    87612.12
..                 ...  ...         ...         ...         ...
496        Graha Garuda   56  1966-07-22          20    91959.00
497         Reshma Huma   35  1964-08-22          20    78369.60
498       Brindha Fabin   46  1992-12-13          20    92923.52
499         Graha Cathi   58  1982-08-15          20    92420.67
500   Sakthivelu Garuda   37  2005-08-07          20    59949.75


                                             Skills  Skill_count
1     SQL,Data Analytics,Data engineering,Java,JavaS...            5
2             JavaScript,Business application development            2
3     Business application development,Data Science,...            8
4     Java,JavaScript, Information and cybersecurity...           12
5     Data engineering,AWS,JavaScript,DevOps,SQL,Pyt...            7
..                                              ...          ...
496                                      DevOps,Java            2
497   Python,Machine Learning,DevOps,Data Analytics,...            7
498   DevOps, Information and cybersecurity,Python,J...            9
499   Data engineering,DevOps,SQL,Business applicati...            8
500                                           DevOps            1
```

Task 4: Then segregate their skill sets in separate columns.

	Name	Age	DOB	Experience	Salary_CT \
1	Reshma Anbu	52	1991-10-27	20	135892.26
2	Prabavathi Dina	52	1965-01-08	20	144821.29
3	Anu Anbu	43	1995-11-23	20	69630.58
4	Jeyam Cathi	42	1972-10-05	20	120972.16
5	Anu Garuda	48	1969-05-27	20	87612.12
..	...	...	...	...	...
496	Graha Garuda	56	1966-07-22	20	91959.00
497	Reshma Huma	35	1964-08-22	20	78369.60
498	Brindha Fabin	46	1992-12-13	20	92923.52
499	Graha Cathi	58	1982-08-15	20	92420.67
500	Sakthivelu Garuda	37	2005-08-07	20	59949.75

	Skills	Skill_count \
1	SQL,Data Analytics,Data engineering,Java,JavaS...	5
2	JavaScript,Business application development	2
3	Business application development,Data Science,...	8
4	Java,JavaScript, Information and cybersecurity...	12
5	Data engineering,AWS,JavaScript,DevOps,SQL,Pyt...	7
..	...	...
496	DevOps,Java	2
497	Python,Machine Learning,DevOps,Data Analytics,...	7
498	DevOps, Information and cybersecurity,Python,J...	9
499	Data engineering,DevOps,SQL,Business applicati...	8
500	DevOps	1

	Skill_1	Skill_2 \
1	SQL	Data Analytics
2	JavaScript	Business application development
3	Business application development	Data Science
4	Java	JavaScript
5	Data engineering	AWS
..	...	...
496	DevOps	Java
497	Python	Machine Learning
498	DevOps	Information and cybersecurity
499	Data engineering	DevOps
500	DevOps	None

```
                         Skill_3                                Skill_4  \
1                Data engineering                                    Java
2                            None                                    None
3     Information and cybersecurity                              JavaScript
4     Information and cybersecurity  Business application development
5                      JavaScript                                  DevOps
..                            ...                                     ...
496                          None                                    None
497                         DevOps                          Data Analytics
498                         Python                              JavaScript
499                            SQL  Business application development
500                          None                                    None


              Skill_5                            Skill_6  \
1           JavaScript                              None
2                 None                              None
3       Data Analytics                  Machine Learning
4         Data Science                               SQL
5                  SQL                            Python
..                 ...                               ...
496               None                              None
497                SQL     Information and cybersecurity
498                SQL  Business application development
499                AWS                              Java
500               None                              None


                              Skill_7            Skill_8          Skill_9  \
1                                None               None             None
2                                None               None             None
3                              DevOps                AWS             None
4                                 AWS   Machine Learning   Data Analytics
5                      Data Analytics               None             None
..                                ...                ...              ...
496                              None               None             None
497  Business application development               None             None
498                  Machine Learning                AWS             Java
499     Information and cybersecurity             Python             None
500                              None               None             None
```

```
        Skill_10 Skill_11 Skill_12
1            None      None      None
2            None      None      None
3            None      None      None
4    Data engineering    DevOps    Python
5            None      None      None
..            ...       ...       ...
496          None      None      None
497          None      None      None
498          None      None      None
499          None      None      None
500          None      None      None
```

```
Task 5: Finally filter who has having top  50 unique skill set of those 500.
-------------------------------------------------------------------------------
Top_50_unique_skills_DataFrame:
                 Name  Age         DOB  Experience   Salary_CT  \
1          Reshma Anbu   52  1991-10-27          20  135892.26
2      Prabavathi Dina   52  1965-01-08          20  144821.29
3             Anu Anbu   43  1995-11-23          20   69630.58
4          Jeyam Cathi   42  1972-10-05          20  120972.16
5           Anu Garuda   48  1969-05-27          20   87612.12
..                ...  ...         ...         ...         ...
496        Graha Garuda   56  1966-07-22          20   91959.00
497        Reshma Huma   35  1964-08-22          20   78369.60
498       Brindha Fabin   46  1992-12-13          20   92923.52
499        Graha Cathi   58  1982-08-15          20   92420.67
500   Sakthivelu Garuda   37  2005-08-07          20   59949.75
```

```
                                         Skills   Skill_count  \
1     SQL,Data Analytics,Data engineering,Java,JavaS...          5
2            JavaScript,Business application development          2
3     Business application development,Data Science,...          8
4     Java,JavaScript, Information and cybersecurity...         12
5     Data engineering,AWS,JavaScript,DevOps,SQL,Pyt...          7
..                                                 ...        ...
496                                        DevOps,Java          2
497   Python,Machine Learning,DevOps,Data Analytics,...          7
498   DevOps, Information and cybersecurity,Python,J...          9
499   Data engineering,DevOps,SQL,Business applicati...          8
500                                             DevOps          1
```

```
                            Skill_1                           Skill_2  \
1                               SQL                      Data Analytics
2                        JavaScript  Business application development
3   Business application development                      Data Science
4                              Java                        JavaScript
5                   Data engineering                              AWS
..                              ...                               ...
496                           DevOps                              Java
497                           Python                  Machine Learning
498                           DevOps       Information and cybersecurity
499                 Data engineering                            DevOps
500                           DevOps                              None

                            Skill_3                           Skill_4  \
1                   Data engineering                              Java
2                              None                              None
3     Information and cybersecurity                        JavaScript
4     Information and cybersecurity  Business application development
5                        JavaScript                            DevOps
..                              ...                               ...
496                            None                              None
497                          DevOps                    Data Analytics
498                          Python                        JavaScript
499                             SQL  Business application development
```

```
            Skill_5                        Skill_6  \
1         JavaScript                           None
2               None                           None
3     Data Analytics               Machine Learning
4       Data Science                            SQL
5                SQL                         Python
..              ...                            ...
496             None                           None
497              SQL   Information and cybersecurity
498              SQL  Business application development
499              AWS                           Java
500             None                           None

                            Skill_7        Skill_8        Skill_9  \
1                              None           None           None
2                              None           None           None
3                            DevOps            AWS           None
4                              AWS  Machine Learning  Data Analytics
5                    Data Analytics           None           None
..                              ...            ...            ...
496                            None           None           None
497  Business application development           None           None
498                  Machine Learning            AWS           Java
499     Information and cybersecurity         Python           None
500                            None           None           None
```

	Skill_10	Skill_11	Skill_12
1	None	None	None
2	None	None	None
3	None	None	None
4	Data engineering	DevOps	Python
5	None	None	None
..	...	...	...
496	None	None	None
497	None	None	None
498	None	None	None
499	None	None	None
500	None	None	None