Home Assignment Informatics Practices Data Handling Using Pandas

Q.1 Write a Pandas program to drop those rows from a given DataFrame in which specific columns have missing values

and data anataman id

Test Data:

ora_no	purcn_amt	ord_date	customer_1a
NaN	NaN	NaN	NaN
NaN	270.65	2012-09-10	3001.0
70002.0	65.26	NaN	3001.0
NaN	NaN	NaN	NaN
NaN	948.50	2012-09-10	3002.0
70005.0	2400.60	2012-07-27	3001.0
NaN	5760.00	2012-09-10	3001.0
70010.0	1983.43	2012-10-10	3004.0
70003.0	2480.40	2012-10-10	3003.0
70012.0	250.45	2012-06-27	3002.0
NaN	75.29	2012-08-17	3001.0
NaN	NaN	NaN	NaN
	NaN NaN 70002.0 NaN NaN 70005.0 NaN 70010.0 70003.0 70012.0 NaN	NaN NaN NaN NaN NaN NaN 270.65 70002.0 65.26 NaN NaN 948.50 70005.0 2400.60 NaN 5760.00 70010.0 1983.43 70003.0 2480.40 70012.0 250.45 NaN 75.29	NaN

- **Q2.** Write a Pandas program to detect missing values of a given DataFrame. Display True or False.
- **Q3.** Write a Pandas program to identify the column(s) of a given DataFrame which have at least one missing value.
- **Q4.**Write a Pandas program to identify the column(s) of a given DataFrame which have at least one missing value.
- **Q5.** Write a Pandas program to split the following dataframe into groups based on school code. Also check the type of GroupBy object.

Test Data:

	school	class		name date_Of_Bi	rth	age	height	weight
add	ress							
S1	s001	V	Alberto Franco	15/05/2002	12	173	35	street1
S2	s002	V	Gino Mcneill	17/05/2002	12	192	32	street2
S3	s003	VI	Ryan Parkes	16/02/1999	13	186	33	street3
S4	s001	VI	Eesha Hinton	25/09/1998	13	167	30	street1
S5	s002	V	Gino Mcneill	11/05/2002	14	151	31	street2
S6	s004	VI	David Parkes	15/09/1997	12	159	32	street4

Q6. Write a Pandas program to split the following dataframe by school code and get mean, min, and max value of age for each school.

Test Data:

S	chool	class		name date_Of_Bi	rth	age	height	weight
addr	cess							
S1	s001	V	Alberto Franco	15/05/2002	12	173	35	street1
S2	s002	V	Gino Mcneill	17/05/2002	12	192	32	street2
s3	s003	VI	Ryan Parkes	16/02/1999	13	186	33	street3
S4	s001	VI	Eesha Hinton	25/09/1998	13	167	30	street1
S5	s002	V	Gino Mcneill	11/05/2002	14	151	31	street2
S6	s004	VI	David Parkes	15/09/1997	12	159	32	street4

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7. Write a Pandas program to split a dataset, group by one column and get mean, min, and max values by group. Using the following dataset find the mean, min, and max values of purchase amount (purch_amt) group by customer id (customer_id).

Test Data:

	ord_no	purch_amt	ord_date	customer_id	salesman_id
0	70001	150.50	2012-10-05	3005	5002
1	70009	270.65	2012-09-10	3001	5005
2	70002	65.26	2012-10-05	3002	5001
3	70004	110.50	2012-08-17	3009	5003
4	70007	948.50	2012-09-10	3005	5002
5	70005	2400.60	2012-07-27	3007	5001
6	70008	5760.00	2012-09-10	3002	5001
7	70010	1983.43	2012-10-10	3004	5006
8	70003	2480.40	2012-10-10	3009	5003
9	70012	250.45	2012-06-27	3008	5002
10	70011	75.29	2012-08-17	3003	5007
11	70013	3045.60	2012-04-25	3002	5001

- **Q.9.** Write a Pandas program to create a Pivot table with multiple indexes from a given Saledata.csv file.
- **Q10.** Write a Pandas program to create a Pivot table and find the total sale amount region wise, manager wise.
- **Q11.** Write a Pandas program to display the dimensions or shape of the SaleData dataset. Also extract the column names from the dataset.
- Q12. Write a Pandas program to remove the duplicates from 'region' column of Salesdata dataset

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