

- Q1.a)1.create folder named "RPracticle" in home directory
- 2.set working directory to this folder
- 3.create vector with values (7,4,na,9,10,na)
- 4.impute median in above vector
- 5.display above created median

Output:

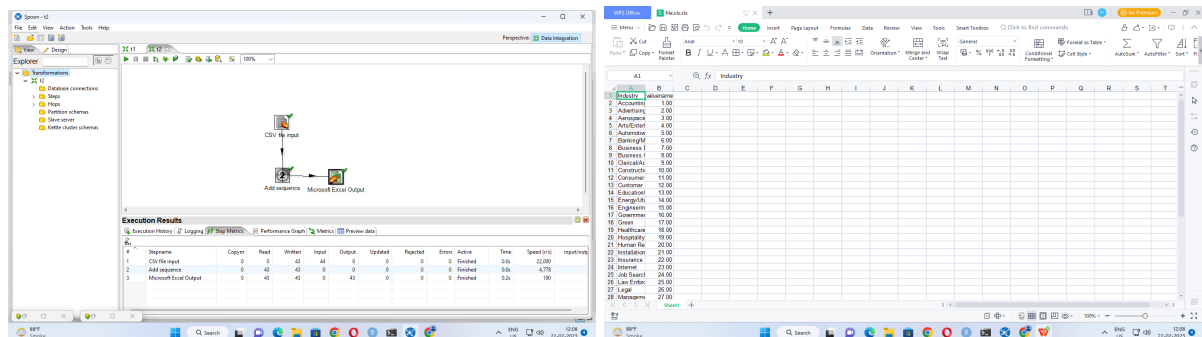
```

Error: object 'v' not found
> setwd("C:\\Users\\user\\Desktop\\RPractical\\")
> getwd()
[1] "C:/Users/user/Desktop/RPractical"
> x<-c(7,4,NA,9,10,NA)
> getwd()
[1] "C:/Users/user/Desktop/RPractical"
> median(v)
Error in median(v) : object 'v' not found
> median(x)
[1] NA
> median(x, na.rm = T)
[1] 8

>
> vec <- c(7, 4, NA, 9, 10, NA)
> med <- median(vec, na.rm = TRUE)
> imputed_vec <- ifelse(is.na(vec), med, vec)
> imputed_vec
[1] 7 4 8 9 10 8
> med
[1] 8

```

Q2.A



Q2B

```
SQL> create type PASSENGER_TYPE as object
2  (PID NUMBER,
3  Pname varchar2(10),
4  Address varchar2(10),
5  DESTINATION VARCHAR2(10),
6  AGE NUMBER
7  );
8  /
```

Type created.

```
SQL> SELECT * FROM PASSENGER_DTLS1;

      PID
-----
DETAIL(PID, PNAME, ADDRESS, DESTINATION, AGE)
-----
1
PASSENGER_TYPE(1, 'PRASAD', 'THANE', 'UP', 23)
2
PASSENGER_TYPE(2, 'SANKET', 'MUMBAI', 'MP', 24)
3
PASSENGER_TYPE(3, 'ROHIT', 'PUNE', 'HR', 25)

      PID
-----
DETAIL(PID, PNAME, ADDRESS, DESTINATION, AGE)
-----
4
PASSENGER_TYPE(4, 'MOHIT', 'CHENNAI', 'KASHMIR', 24)
5
PASSENGER_TYPE(5, 'SAGAR', 'JAMMU', 'UP', 21)
6
PASSENGER_TYPE(6, 'HRISHI', 'PUNE', 'MP', 28)

6 rows selected.
```

```
SQL> insert into PASSENGER_DTLS1 values(1, PASSENGER_TYPE(01,'PRASAD','THANE','UP',23));
1 row created.

SQL> insert into PASSENGER_DTLS1 values(2, PASSENGER_TYPE(02,'SANKET','MUMBAI','MP',24));
1 row created.

SQL> insert into PASSENGER_DTLS1 values(3, PASSENGER_TYPE(03,'ROHIT','PUNE','HR',25));
1 row created.

SQL> insert into PASSENGER_DTLS1 values(4, PASSENGER_TYPE(04,'MOHIT','CHENNAI','KASHMIR',24));
1 row created.

SQL> insert into PASSENGER_DTLS1 values(5, PASSENGER_TYPE(05,'SAGAR','JAMMU','UP',21));
1 row created.

SQL> insert into PASSENGER_DTLS1 values(6, PASSENGER_TYPE(06,'HRISHI','PUNE','MP',28));
1 row created.
```

```
SQL> CREATE TABLE PASSENGER_DTLS1(PID NUMBER(3),DETAIL PASSENGER_TYPE);
```

Table created.

Q3A

```
SQL> alter table sales13 add partition sales_n
2          values ('Delhi');
```

Table altered.

```
SQL> insert into sales13 values(7,'ben','Delhi');
```

1 row created.

```
SQL> create table sales13(
2  sid NUMBER,
3  sname VARCHAR(10),
4  salesregion varchar(10)
5  )
6  PARTITION BY LIST (salesregion)
7  (
8  PARTITION sales_east VALUES ('Mumbai'),
9  PARTITION sales_west VALUES ('Kolkata'),
10 PARTITION sales_south VALUES ('Chennai')
11 ) enable row movement;
```

Table created.

```
SQL> insert into sales13 values(1,'prasad','Mumbai');
```

```
SQL> select * from sales13 PARTITION(sales_n);
```

```
-----
      SID SSNAME      SALESREGIO
-----
      7 ben          Delhi
      8 sam          Delhi
```

```
SQL> select * from sales13 PARTITION(sales_south);
```

```
-----
      SID SSNAME      SALESREGIO
-----
      2 chayan        Chennai
      3 rohit         Chennai
```

```
SQL> select * from sales13 PARTITION(sales_n);
```

```
-----
      SID SSNAME      SALESREGIO
-----
      7 ben          Delhi
      8 sam          Delhi
```

```
SQL> select * from sales13 PARTITION(sales_south);
```

```
-----
      SID SSNAME      SALESREGIO
-----
      2 chayan        Chennai
      3 rohit         Chennai
```

Q3B

```
SQL> CREATE TABLE Employee (
2  EMP_NO NUMBER(5),
3  DEP_NO NUMBER(5),
4  SALARY NUMBER(10),
5  COMM NUMBER(10),
6  JOB VARCHAR2(20));
```

Table created.

```
SQL> insert into Employee values (181, 18, 80000, 2000, 'Developer');
```

1 row created.

```
SQL> select * from Employee;
```

EMP_NO	DEP_NO	SALARY	COMM	JOB
181	18	80000	2000	Developer

```
SQL> SELECT DEP_NO, JOB, count(*), sum (SALARY)
2  from Employee
3  group by rollup(DEP_NO, JOB);
```

DEP_NO	JOB	COUNT(*)	SUM(SALARY)
18	Developer	1	80000
18		1	80000
		1	80000

```
SQL> SELECT DEP_NO, JOB, count(*), sum (SALARY)
2  from Employee
3  group by cube(DEP_NO, JOB);
```

DEP_NO	JOB	COUNT(*)	SUM(SALARY)
		1	80000
	Developer	1	80000
18		1	80000
18	Developer	1	80000