Test Cases Pattern for input :

User Site WorkGroup StartTimeStamp EndTimeStamp Typ

First Table Planned Schedule

Second Table Planned Schedule

1)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 3:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12:00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

Output :

deviation per user = 30 minutes

deviation % =((30)/8\*60)\*100=6.25%

deviation of Site(Del) =30minutes

deviation %=6.25%

deviation of WorkGroup=30minutes

deviation %=7.14%

deviation of Work Interval=30minutes

deviaton%=7.14%

deviation of Lunch Interval=0minutes

2)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

Output :

deviation per user = 60 minutes

deviation % =((60)/8\*60)\*100=12.5%

deviation of Site(Del) =60minutes

deviation %=12.5%

deviation of WorkGroup(Mail)=60minutes

deviation%=12.5%

deviation of Work Interval=45minutes

deviation%=10.71%

deviation of Lunch Interval=15minutes.

deviation %=25%

3)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

Output :

deviation per user = 45 minutes

deviation % =((45)/8\*60)\*100=9.37%

deviation of Site(Del) =45 minutes

deviation %=9.37%

deviation of WorkGroup(Mail)=45minutes

deviation%=10.71%

deviation In Work Interval=((30)/7\*60)\*100=7.14%

devation in lunch Interval =((15)/60)\*100=25%

4)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mssg 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mssg 2020-05-25 T 13:15 2020-05-25 T 17:00Work

Output :

deviation per user = 60 minutes

deviation % =((60)/8\*60)\*100=12.5%

deviation of Site(Del) =60 minutes

deviation %=12.5%

deviation of WorkGroup(Mail)=45

deviation of WorkGroup(Mssg)=15minutes

deviation of Work Interval=45minutes

deviation %=(45/420)\*100=10.71%

deviation of Lunch Interval=15minutes

deviation%=25%

5)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:30 Work

Output :

deviation per user = 90 minutes

deviation % =((90)/8\*60)\*100=18.75%

deviation of Site(Del) =90 minutes

deviation %=18.75%

deviation of WorkGroup(Mail)=90

deviation%=(90/420)\*100=21.42%

deviation of Work Interval=75minutes

deviation%=17.71%

deviation of Lunch Interval=15minutes

deviation%=25%

6)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u2 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u2 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u2 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u2 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u2 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u2 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

Output :

deviation of user u1=60 minutes

%deviation=12.5%

deviation of user u2=60 minutes

%deviation=12.5%

deviation of site(Del) =120 minutes

%deviation =25%

deviation of Mail workGroup=28.57%

deviation of Work Interval=90minutes

deviation of Lunch Interval=30minutes

deviation %=50%

7)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u2 Del Mail 2020-05-25 T 10:00 2020-05-25 T 12:00 Work

u2 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u2 Del Mail 2020-05-25 T 13:00 2020-05-25 T 18:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u2 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:15 Work

u2 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u2 Del Mail 2020-05-25 T 13:15 2020-05-25 T17:00 Work

Output :

deviation of user u1=60 minutes

%deviation=12.5%

deviation of user u2=150 minutes

%deviation=31.25%

deviation of site(Del) =150minutes

%deviation =31.25%

deviation of Mail workGroup=35.71%

deviation in Work Interval 120minutes

deviation%=28.57%

deviation in Lunch Interval=30minutes

deviation%=50%

8)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u2 Del Mssg 2020-05-25 T 10:00 2020-05-25 T 12:00 Work

u2 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u2 Del Mssg 2020-05-25 T 13:00 2020-05-25 T18:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u2 Del Mssg 2020-05-25 T 9:00 2020-05-25 T 12:15 Work

u2 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u2 Del Mssg 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

Output :

deviation of user u1=60 minutes

%deviation=12.5%

deviation of user u2=150 minutes

%deviation=31.25%

deviation of site(Del) =210minutes

%deviation =43.75%

deviation of Mail workGroup=14.28%

deviation of Mssg workGroup=35.7%

deviation of Work Interval =180minutes

deviation% 42.85%

9)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u2 Del Mssg 2020-05-25 T 10:00 2020-05-25 T12:00 Work

u2 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u2 Del Mssg 2020-05-25 T 13:00 2020-05-25 T 18:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u2 Del Mssg 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u2 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u2 Del Mssg 2020-05-25 T 13:15 2020-05-25 T 18:00 Work

Output :

deviation of user u1=60 minutes

%deviation=12.5%

deviation of user u2=60 minutes

%deviation=12.5%

deviation of site(Del) =120minutes

%deviation =25%

deviation of Mail workGroup=14.28%

deviation of Mssg workGroup=14.28%

deviation of Work Interval=90minutes

%deviation=21.42

deviation of Lunch Interval=30 minutes

%deviation=50%

10)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u2 Del Mail 2020-05-25 T 10:00 2020-05-25 T 12:00Work

u2 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u2 Del Mail 2020-05-25 T 13:00 2020-05-25 T 18:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u2 Del Mail 2020-05-25 T 10:00 2020-05-25 T 12:15Work

u2 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u2 Del Mail 2020-05-25 T 13:15 2020-05-25 T17:00 Work

Output :

deviation of user u1=60 minutes

%deviation=12.5%

deviation of user u2=90 minutes

%deviation =19.5%

deviation of site(Del) =150minutes

deviation of Mail workGroup=60minutes

deviation%=14.28%

deviation in Mssg (Work Group)=90minutes

deviation%=21.42%

deviation in Work interval=120minutes

%deviation=28.57%

deviation of Lunch Interval=30minutes

%deviation =50%

11)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u2 Hyd Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u2 Hyd NA 2020-05-25 T 12: 00 2020-05-25 T 13:00 Lunch

u2 Hyd Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u2 Hyd Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u2 Hyd NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u2 Hyd Mail 2020-05-25 T 13:15 2020-05-25 T17:00Work

Output :

deviation of user u1=60 minutes

%deviation=12.5%

deviation of user u2=60 minutes

%deviation=12.5%

deviation of site(Del) =60minutes

%deviation =12.5%

deviation of Hyd=60minutes

%deviation 12.5%

deviation of Mail workGroup=120minutes

%deviation 28.5%

deviation in Work Interval=90minutes

%deviation 21.42%

deviation in Lunch Interval=30minutes

%deviation 50%

12)

u1 Del Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u1 Del NA 2020-05-25 T 12: 00 2020-05-25 T 3:00 Lunch

u1 Del Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u2 Hyd Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u2 Hyd NA 2020-05-25 T 12: 00 2020-05-25 T 13:00Lunch

u2 Hyd Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u3 Blr Mail 2020-05-25 T 9:00 2020-05-25 T 12:00 Work

u3 Blr Mail 2020-05-25 T 2:00 2020-05-25 T 13:00 Lunch

u3 Blr Mail 2020-05-25 T 13:00 2020-05-25 T 17:00 Work

u1 Del Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u1 Del NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u1 Del Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u2 Hyd Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u2 Hyd NA 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u2 Hyd Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

u3 Blr Mail 2020-05-25 T 9:30 2020-05-25 T 12:15 Work

u3 Blr Mail 2020-05-25 T 12:15 2020-05-25 T 13:15 Lunch

u3 Blr Mail 2020-05-25 T 13:15 2020-05-25 T 17:00 Work

Output :

deviation of user u1=60 minutes

%deviation=12.5%

deviation of user u2=60 minutes

%deviation=12.5%

deviation of user u3=60minutes

%deviation=12.5%

deviation of site(Del) =60minutes

%deviation =12.5%

deviation of Hyd(site)=60minutes

%deviation =12.5%

deviation of blr(site)=60minutes

%deviation =12.5%

deviation of Mail workGroup=180minutes

%deviation 85.5%

deviation in Work Interval=135minutes

%deviation in 32.14%

deviation in Lunch time=45minutes

%deviation 75%