**PUPIL ACADEMIC MONITORING SYSTEM**

**User Guide**

**(Updated on 21 Mar 2021)**

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# Work Flow

Part 1 - Beginning of Year

* Convert Cockpit Data
* Manage SBB and Teaching Group

**NEW**

* Subject Grading Scheme
* Setup Aggregate Target

Part 2 – Analyzing Results

* Convert Cockpit Data (with Exam Results)
* Process Results

**New Features and Reports**

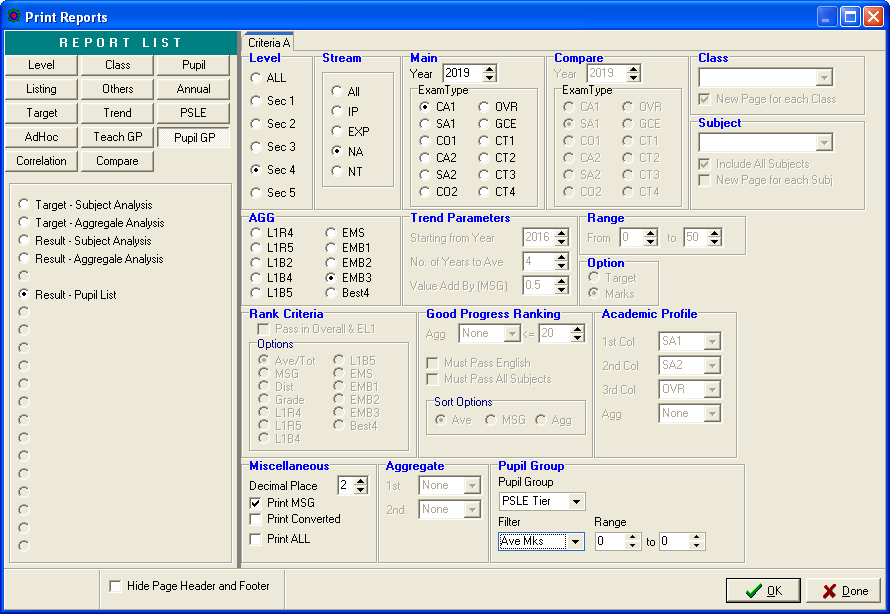
The new features are Pupil Group Allocation:

PSLE Tier - Each Cohort is divided into Tier based on PSLE Results. Analysis based on Tier

OOS/SBB - Identify students offered SBB/OOS (1, 2 3 or 4). Analysis based on Total OSS/SBB Offered

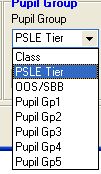
User Defined Group - There are up to 5 Groups you can tag to students. For example, DSA, Scholars, Learning Ability etc. Analysis based on These Group

There are a series of Reports based on Pupil Grouping. In addition, you can also filter out pupils based on Average Mark, EPI, No Pass, No Fail, Aggregate, Overall Pass and Overall Fail. Please explore.



Range of Value to be included





# Cockpit Files

There are some changes to the Cockpit Files especially the EXDET (CSV) and Subject Combination (Excel)

## EXDET

The subject Code column includes “Stream” as part of Subject Code. For example, for NA student offering Express Maths:

Lower Sec NA - MATHS – EXP

Upper Sec NA - MATHS – O

Some of the Subject Codes are different from previous years. PAMS will map them accordingly. For example EL:

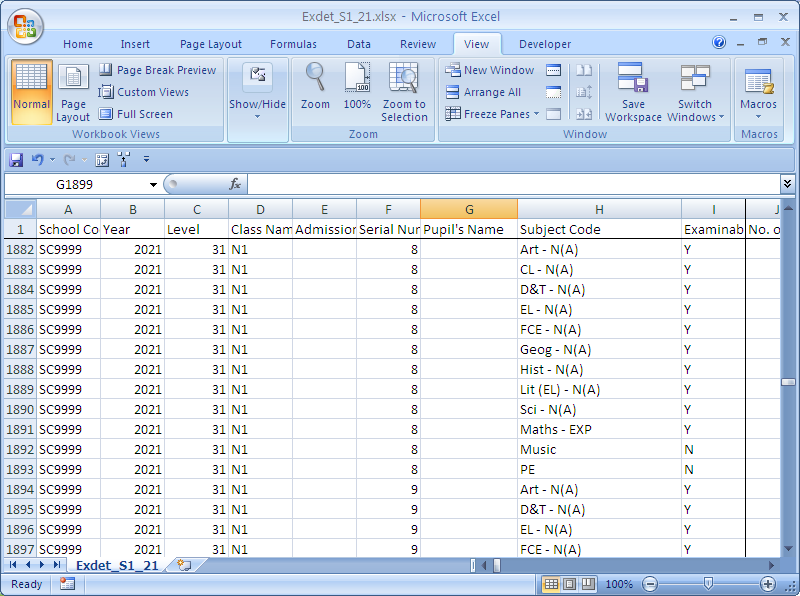
Lower Sec Express - EL – EXP map to EL1

Lower Sec NA - EL – N(A) map to EL1 (NA); \_EL1 (Express)

Lower Sec Express - EL – EXP map to EL1

Lower Sec Express - EL – EXP map to EL1

Lower Sec Express - EL – EXP map to EL1



# Convert Cockpit Data

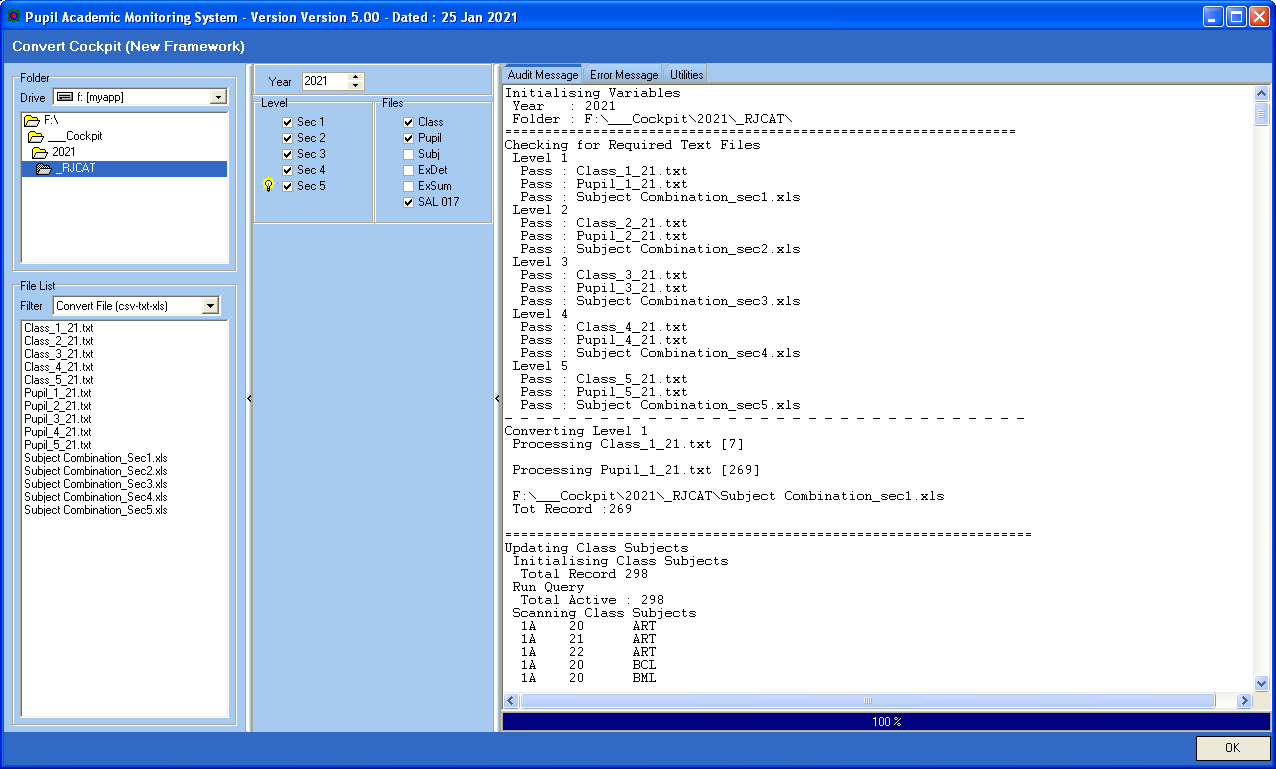
You will need to export the following text file from School Cockpit:

* Class (Text File)
* Pupil (Text File)
* ExDet (CSV File)
* Subj (Text File)

In addition, PAMS also need RE\_SAL\_017 for each level. RE\_SAL\_017 is an Excel File. After you export, you need to Open them and Save as 2003 Excel Format (xls) using the following File Name convention:

* Subject Combination\_Sec1.xls
* Subject Combination\_Sec2.xls
* Subject Combination\_Sec3.xls
* Subject Combination\_Sec4.xls
* Subject Combination\_Sec5.xls

Menu Access: System Admin Menu || Convert Cockpit (New Framework)



Steps

* Select your Directory where you stored your Cockpit Text Files
* Select Level
* Select the Files to be Converted
* Click OK Button

# Out of Stream Subject or Subject Based Banding

Out of Stream (OSS)

Subject Based Banding (SBB)

Cockpit EXDET file does not distinguish the following Subject Codes for SBB or Out of Stream:

Lower Sec

* EL1
* MATH
* GEOG, HIST, LIT(E)

Upper Sec (Except NT)

* SCI(P/C), SCI(C/B), SCI(P/B)
* SS+GEOG, SS+HIST, SS+LIT
* POA, D&T, F&N

All Mother Tongue and Lower Sec Sciences are distinguished:

* CL, CL(NA), BCL
* SCI(S/E), SCI(N/A), SCIENCE(T)

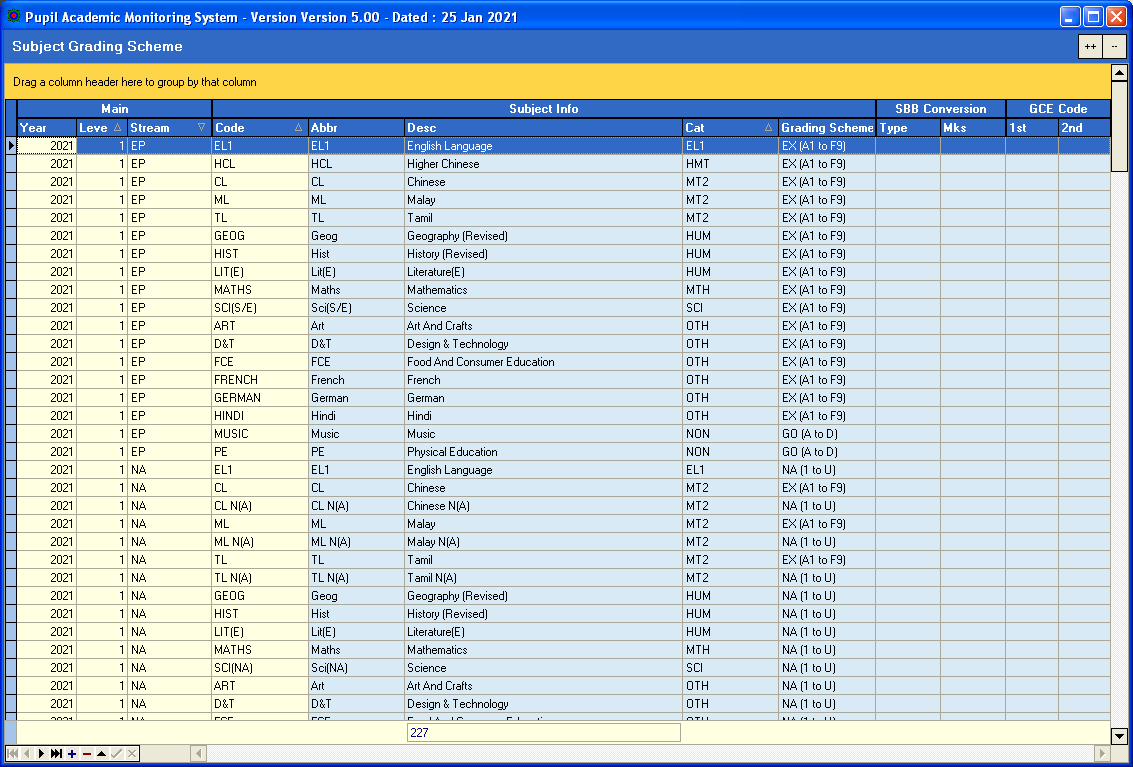
PAMS will need to change them as follow:

* From NA to Express, PAMS will prefix “\_” in the subject Code (example: \_EL1, \_MATHS)
* From NT to NA, PAMS will prefix “@” in the subject Code (example: @EL1, @MATHS)

**Check Subject Grading Scheme**

After conversion, you need to check through the Subject Parameters such as Category, Grading Scheme etc. to ensure that they are correct.

Menu Access: System Admin Menu – Subject Grading Scheme

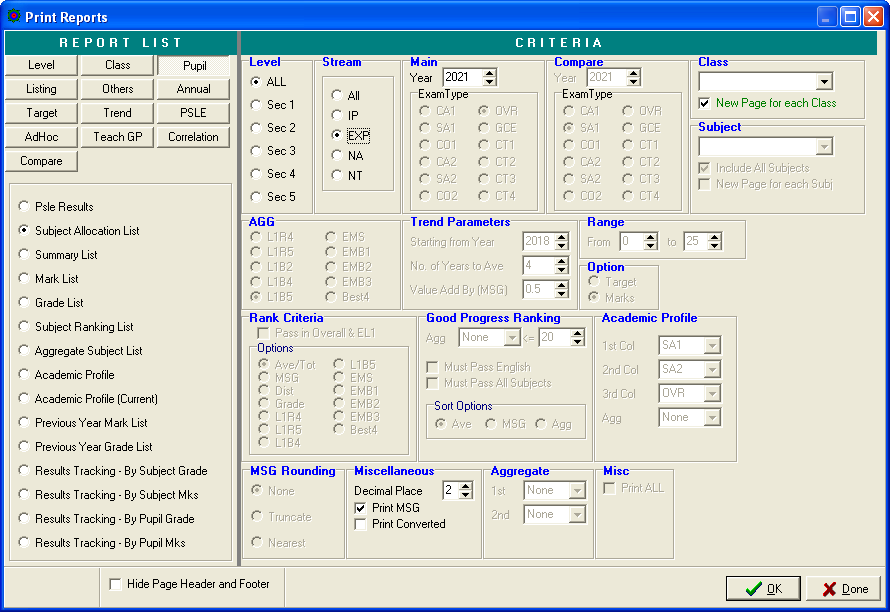


Grading Scheme

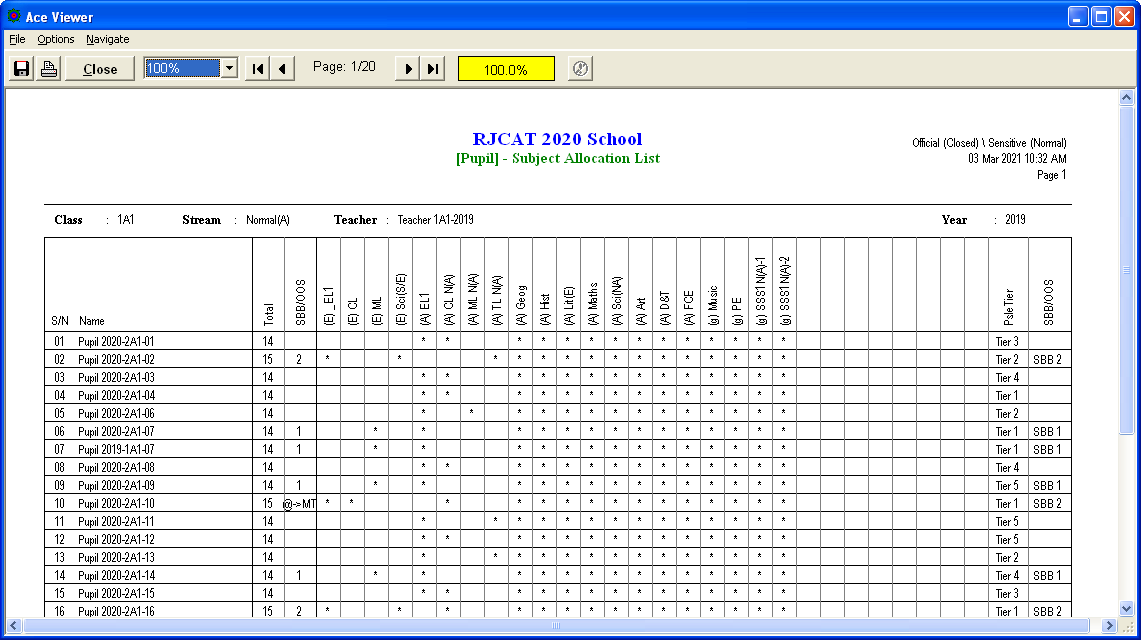
Subject Category

**Check Subject Allocation**

After conversion, you can PRINT Pupil – Subject Allocation List to verify.



## Check SBB/OSS

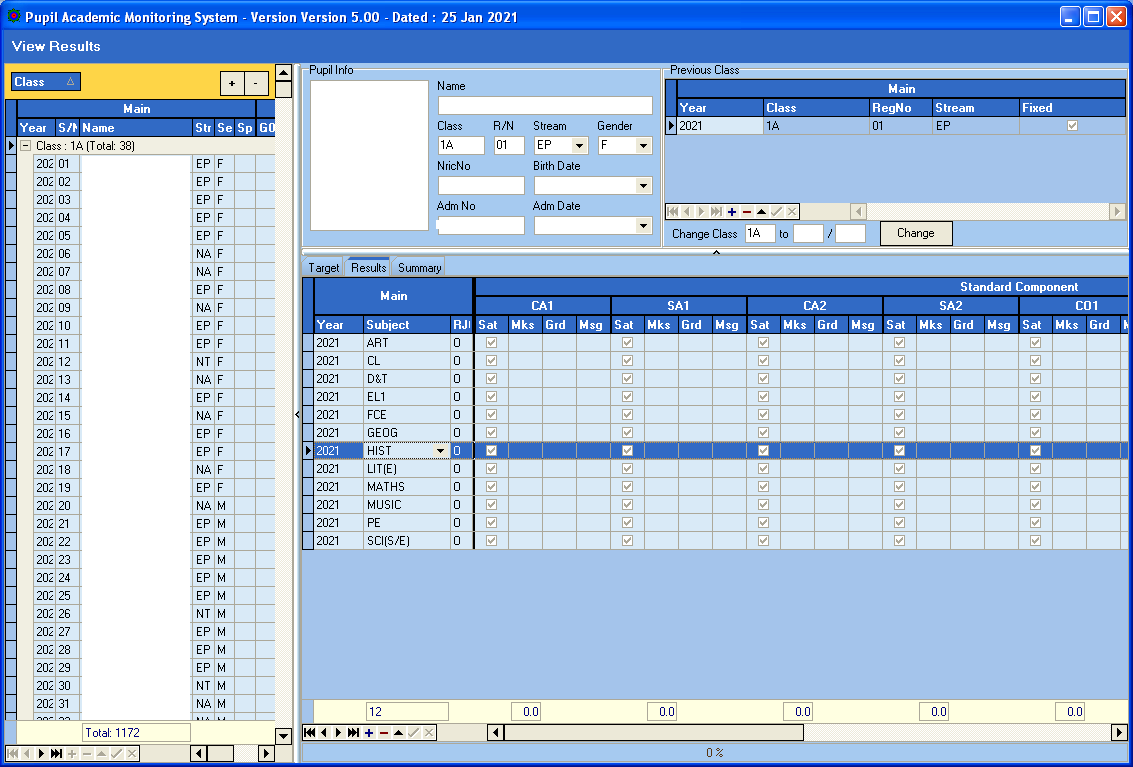


Any error will be display here. E,g. Allocated 2 MT

**Manual Change Subject for student**

If you need to change the subject Manually for student.

Menu Access: Main Menu – View Results



Change Subject

To Delete, click “-”

To Add, click “+”

# Load SBB & Teaching Group

Menu Access: System Admin Menu || Load SBB & Teaching Group

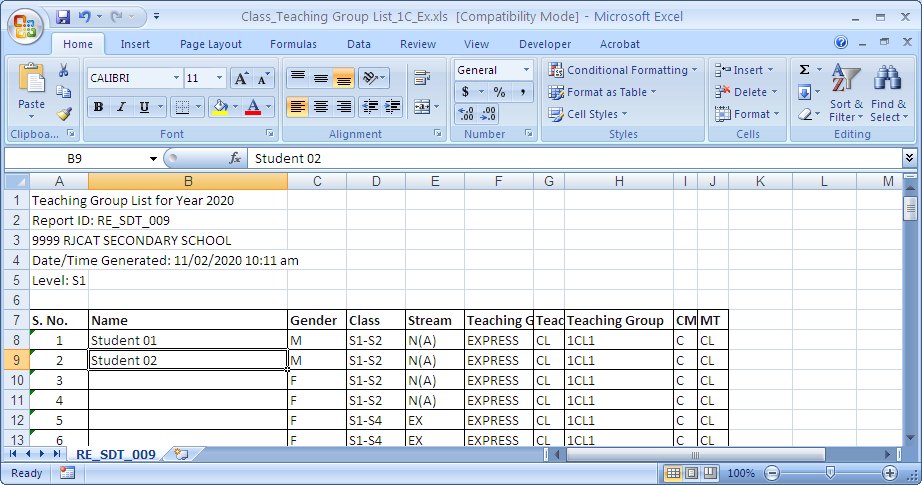
There are 2 types of Excel Files that can be loaded into PAMS. All of them need to be save as OLD Excel Format (.xls)

RE\_SDT\_009 : This is Pupil Subject Teaching Group File. There will be many files.

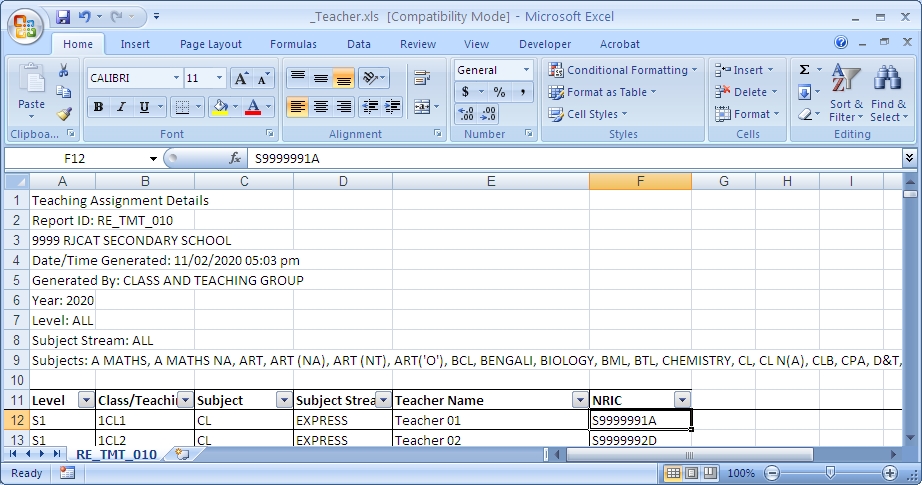
RE\_TMT\_010 : This is Teacher Teaching Group File. (Only one file for whole school)

Note: RE\_SDT\_009 and RE\_TMT\_010 can be loaded after target setting and BEFORE analyzing results.

**RE\_SDT\_009**

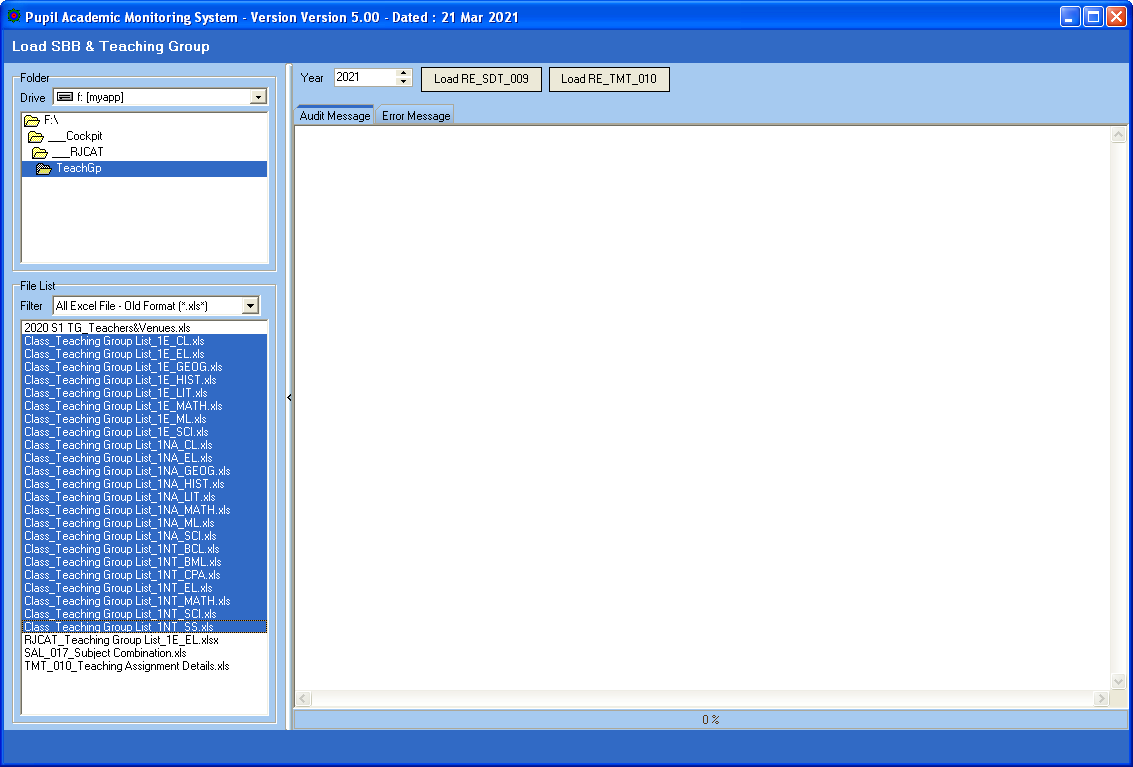


**RE\_TMT\_010**



## Loading RE\_SDT\_009 Files

This is the Pupil Subject Teaching Group



Click

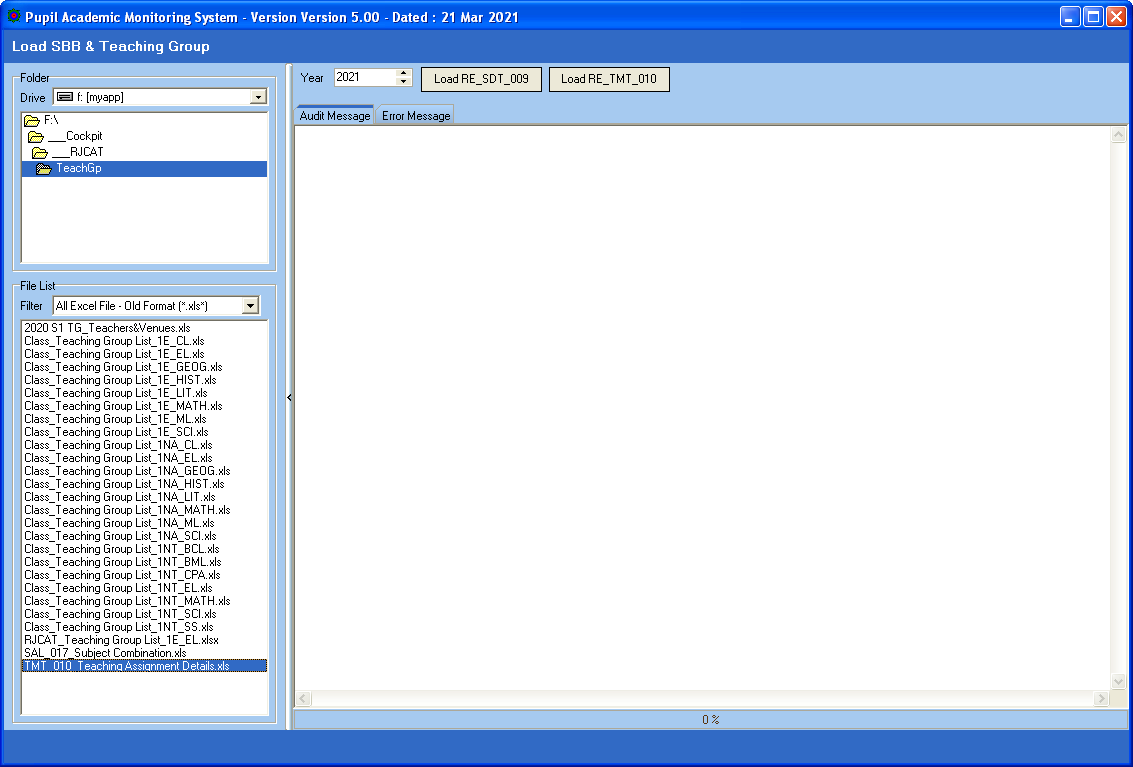
Load RE\_SDT\_009

Steps

* Select your Directory where you stored your Cockpit Excel Files
* Select the Teaching Group Files
* Click **Load RE\_SDT\_009** Button

## Loading RE\_TMT\_010 Files

This is the Teacher Teaching Group



Click

Load RE\_TMT\_010

Steps

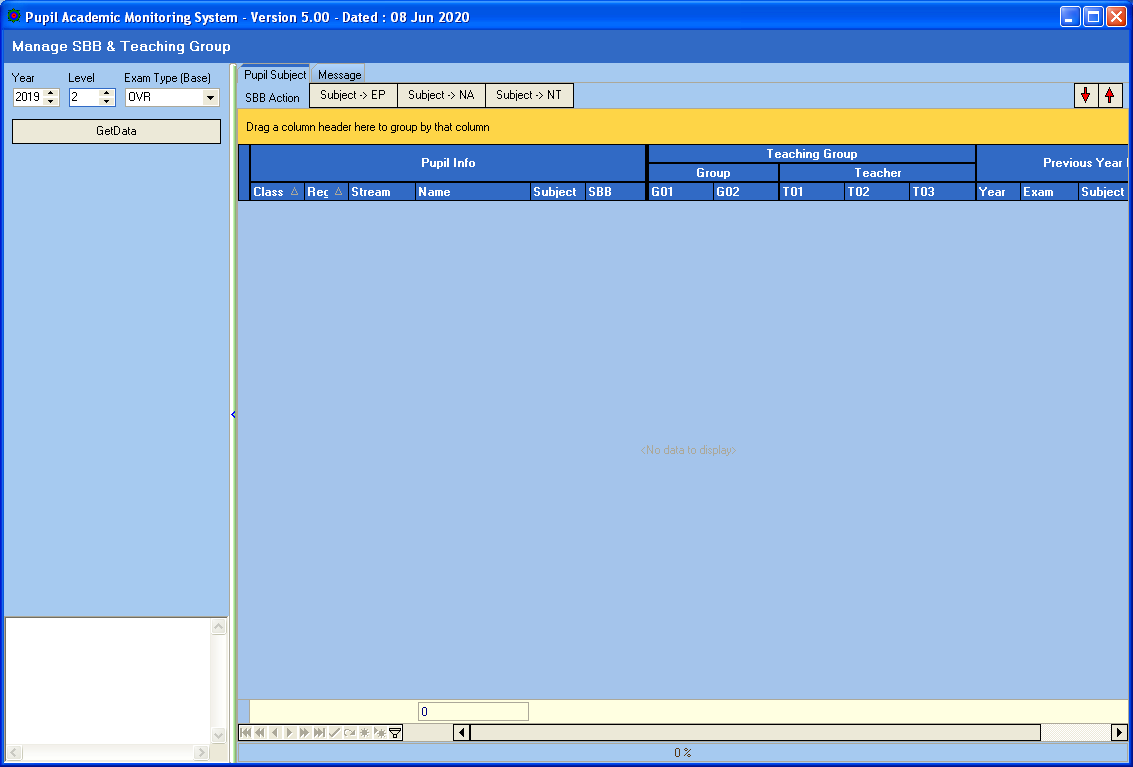
* Select your Directory where you stored your Cockpit Excel Files
* Select the Teaching Group File
* Click **Load RE\_TMT\_010** Button

**Warning: This will not work if your Teacher Allocation to Subject (Teaching Group) is not accurate.**

# Manage SBB and Teaching Group

Most of the SBB and Teaching group are handled by the LOAD function. However, if you need to change manually, you may do so here.

Menu Access: System Admin Menu || Manage SBB & Teaching Group



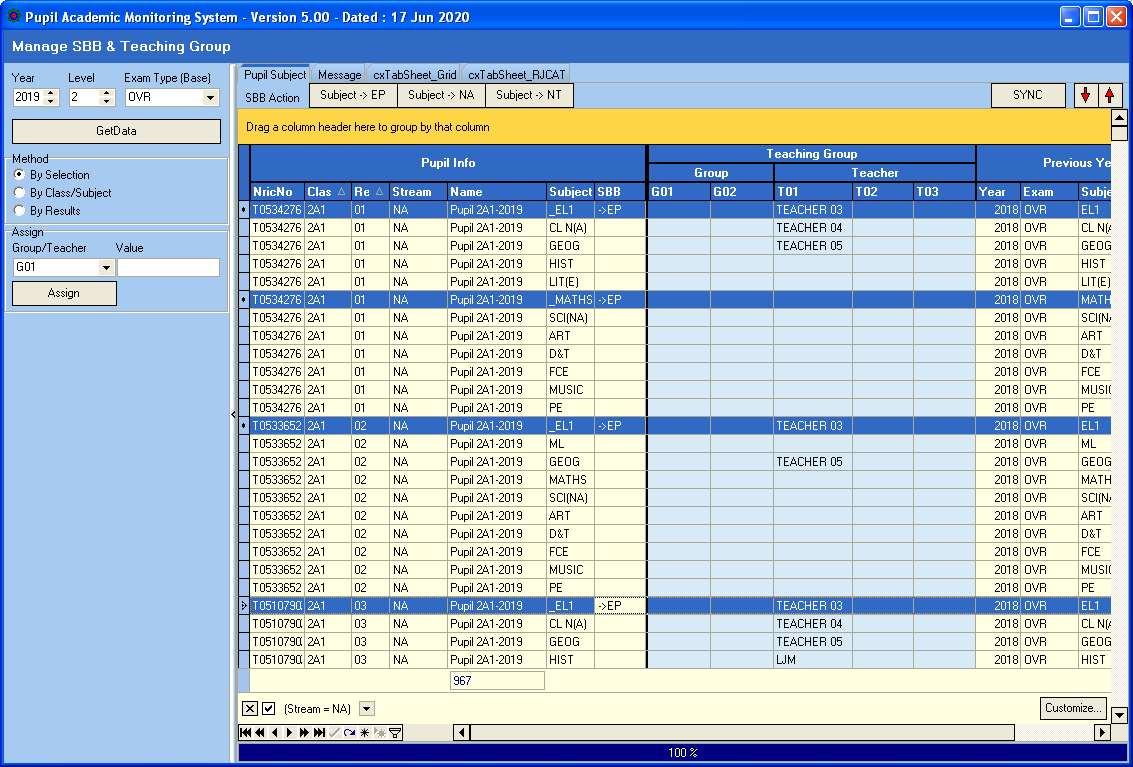
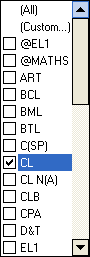
Steps

* Select Year
* Select Level
* Select Exam Type (Previous Year Results)
* Click Get Data button

## Features

The grid on the right panel has features like Sorting, Filtering and Pivoting

Manage SBB

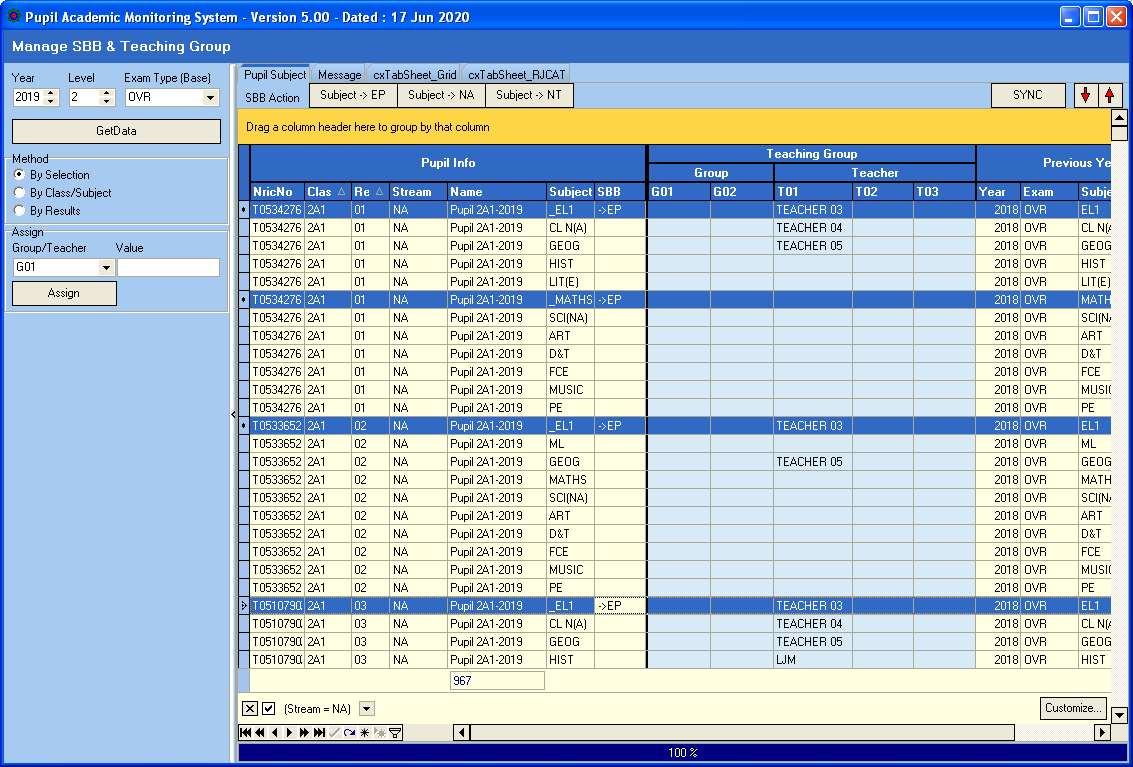


Drag any column to the Orange Panel to Pivot (Group) by the Column.

Move Cursor to column to Filter.

Previous Year Subject and Results

## Updating SBB Subject



Move Cursor to column to Filter.

Steps

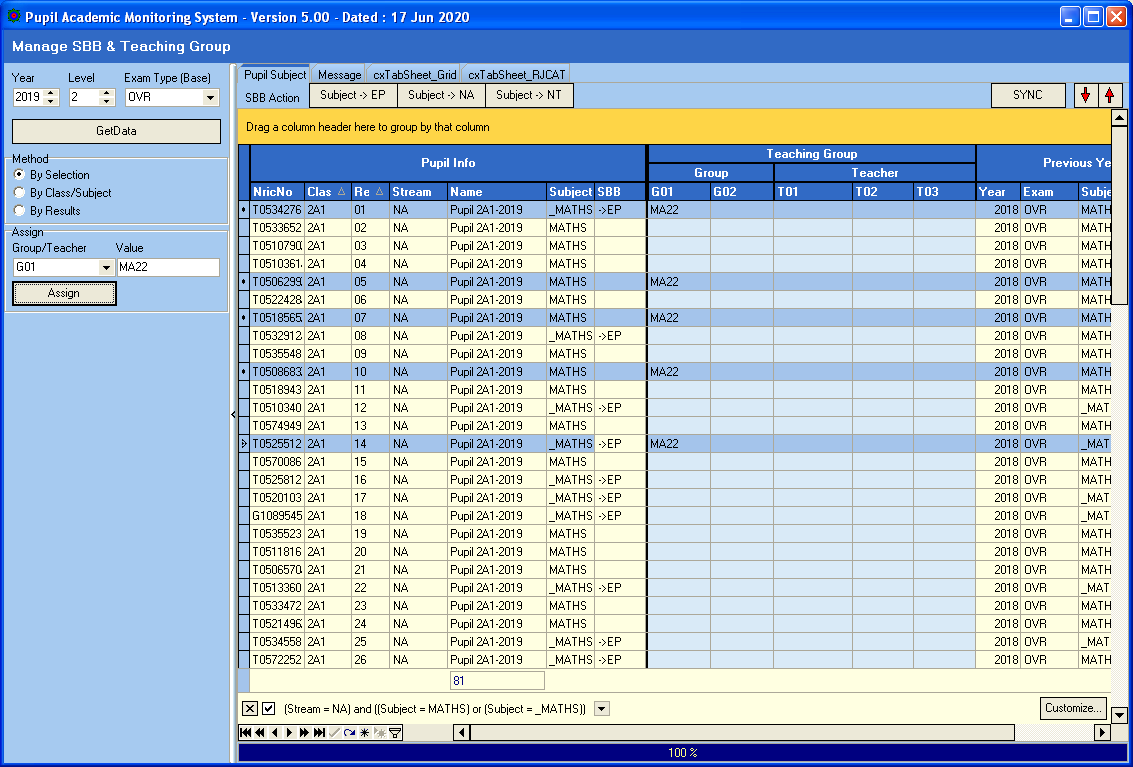
* Click Student (CTRL+Click)
* Click SBB Action Button (e.g. Subject->EP)

## Update Teaching Group/ Teachers

Most of the teaching group will be assigned during the “Load SBB & Teaching Group”.

However, if you need to change any record manually, you can do it here.

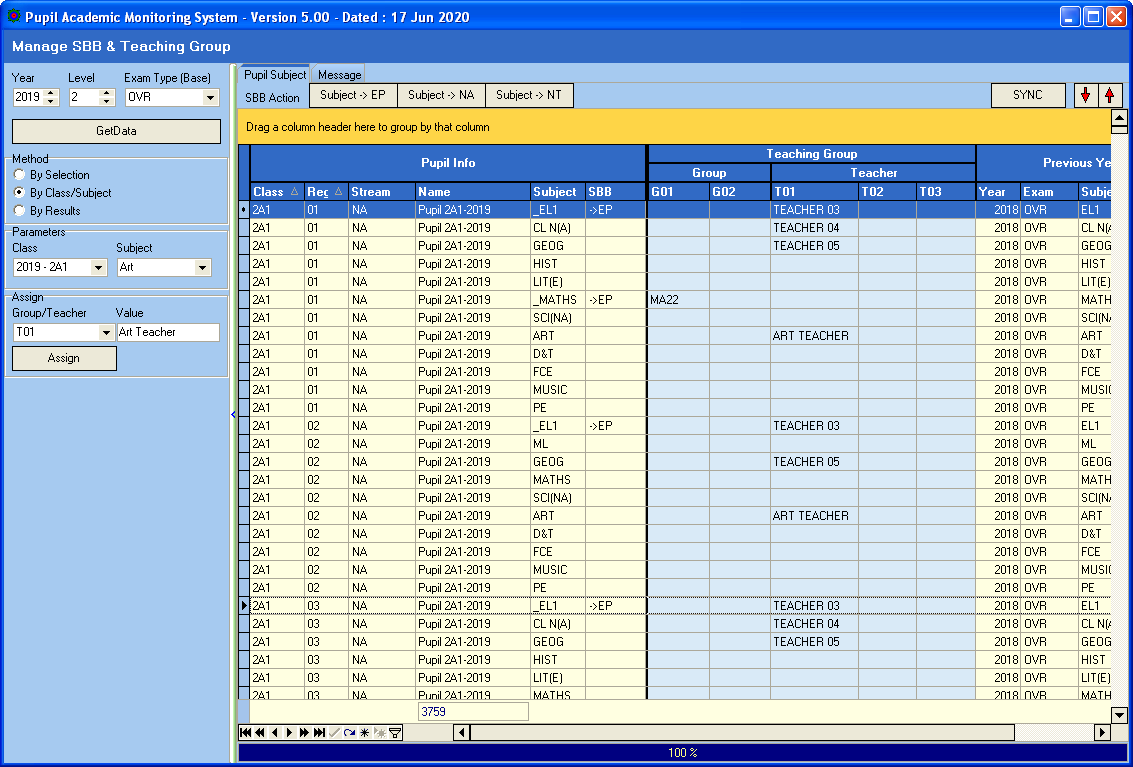
**By Selection**



Steps

* Click Method – By Selection
* Select Assign Group/Teacher (G01, G02, T01, T02 or T03)
* Enter the Value
* Select Students (Use CTRL+Click)
* Click Assign Button

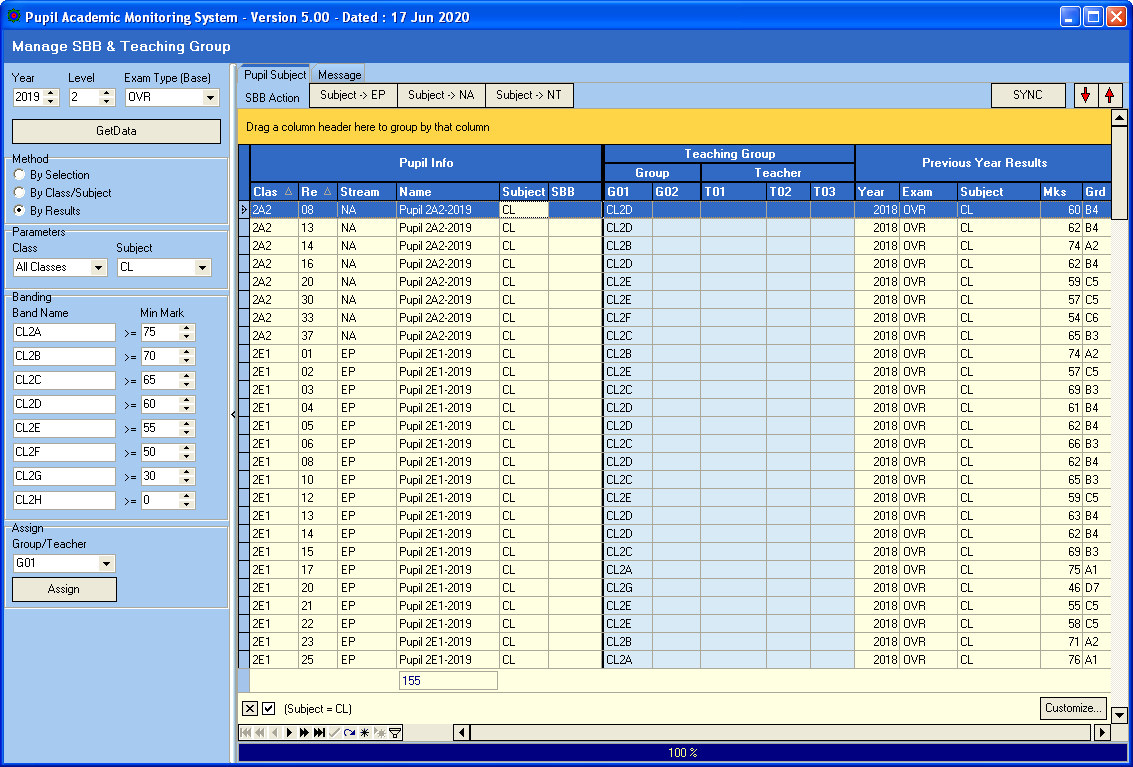
**By Class/Subject**



Steps

* Click Method – By Class/Subject
* Select Class and Subject
* Select Assign Group/Teacher (G01, G02, T01, T02 or T03)
* Enter the Value (e.g. Art Teacher)
* Click Assign Button

**By Results**



Click SYNC once you have finished updating all the teachers.

Steps

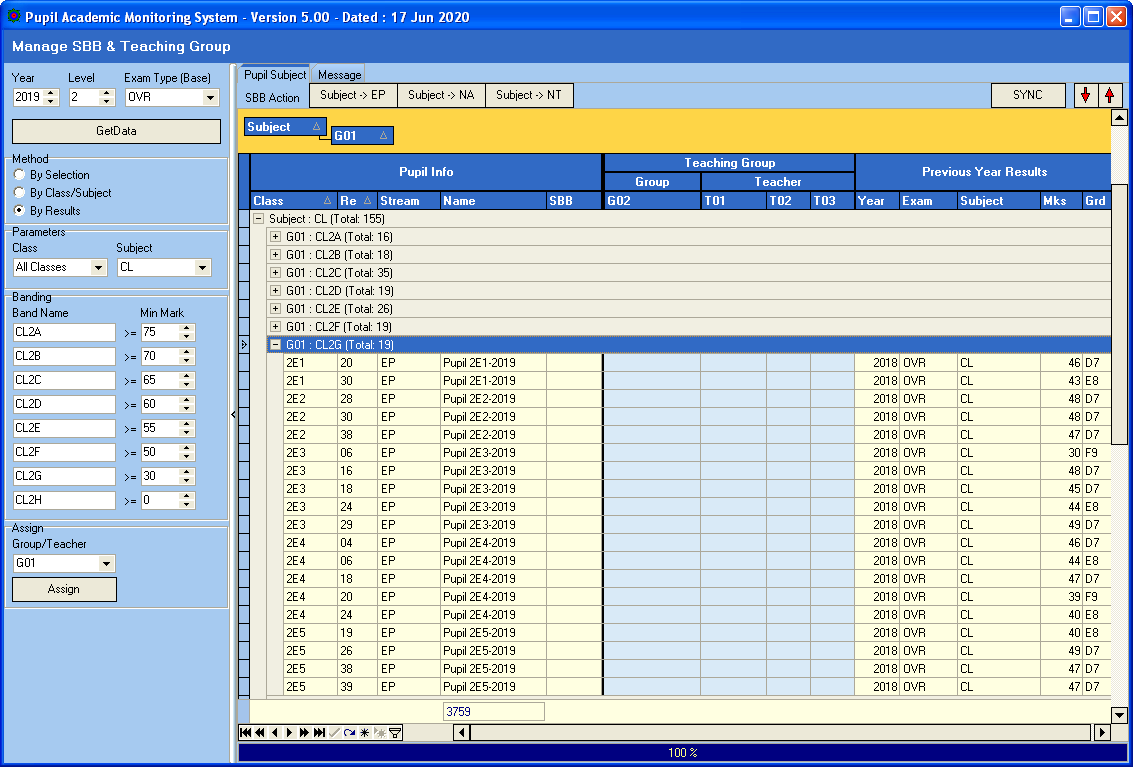
* Click Method – By Results
* Select Class and Subject
* Assign Band Names
* Select Assign Group/Teacher (G01, G02, T01, T02 or T03)
* Enter the Value
* Click Assign Button

Once you have finished Assigning Teachers, you will need to click **SYNC** to Update to Class-Subject Teachers. This will take quite a while.

**Review Summary**

You can GROUP, FILTERED and SORT to review the Allocation summary

GROUP

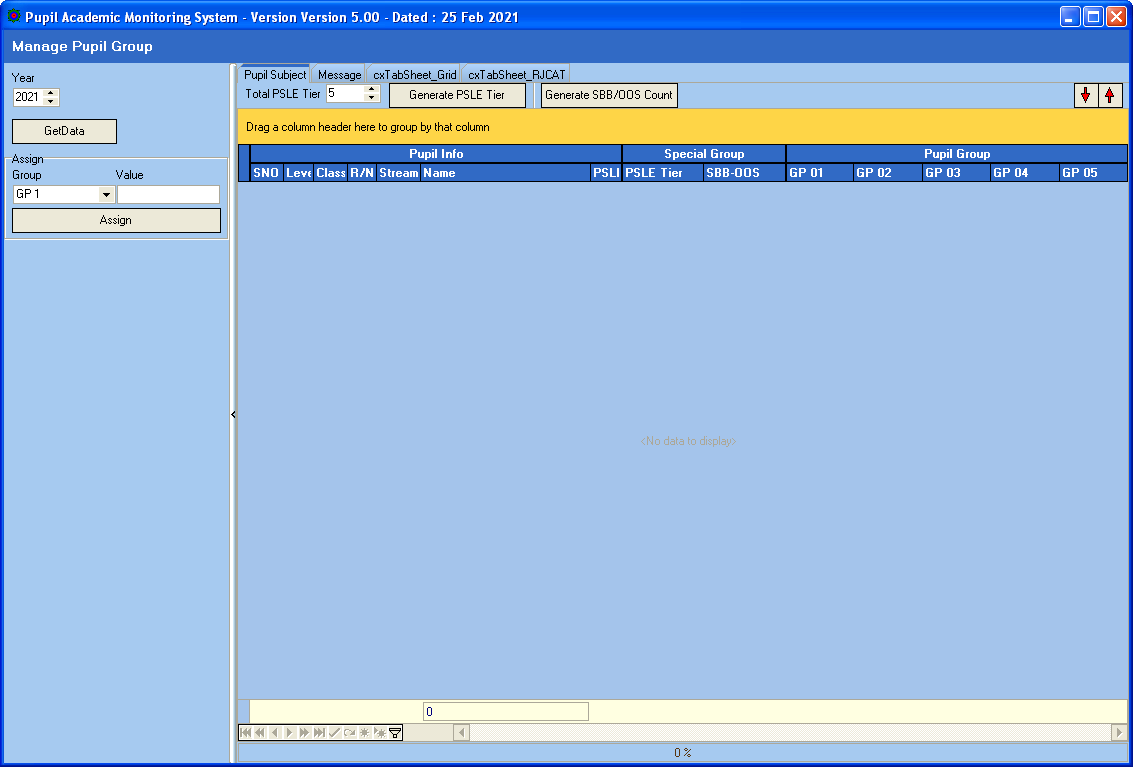


Expand and Collapse

# Manage Pupil Group

You may assign Groups (Up to 3 Groups) to Pupils regardless of Subjects offered to them. These Groups will remain with them throughout all the years. For example: DSA, Scholars etc.

Menu Access: System Admin Menu || Manage Pupil Group

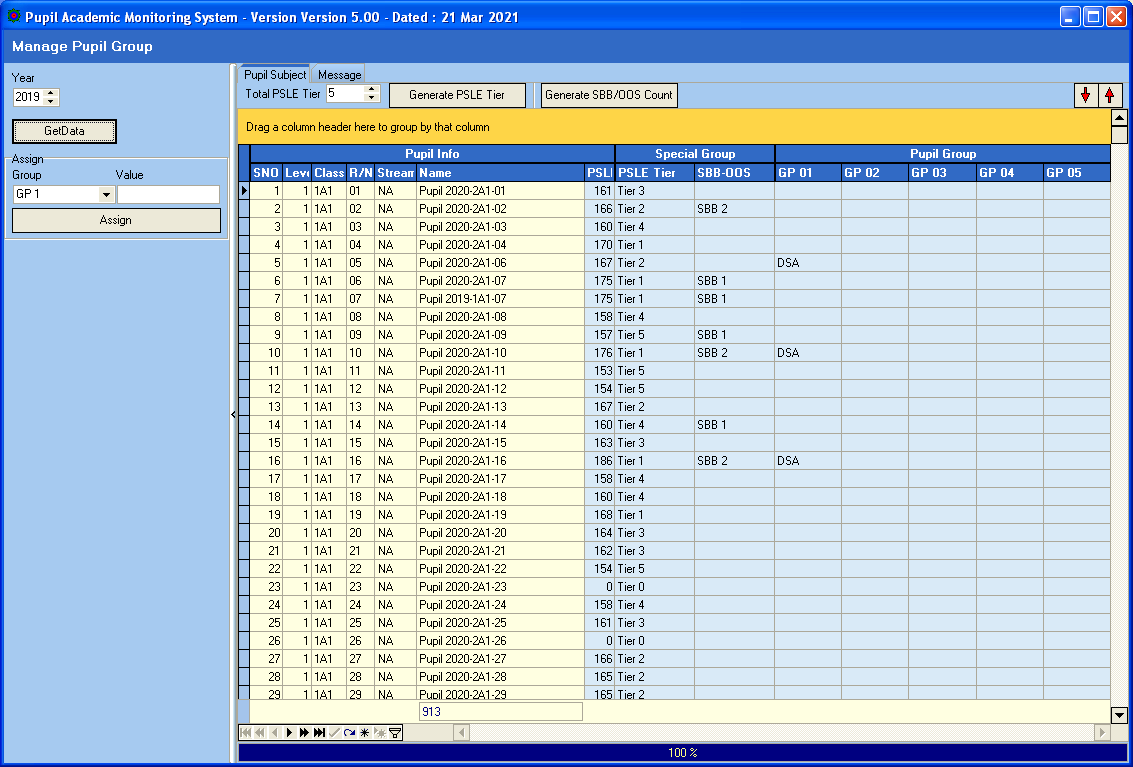


Steps

* Select Year
* Click Get Data button

## Assigning PSLE Tier and OOS/SBB Count

Now you can assign Pupils to PSLE Tiers according to their PSLE T/Scores or AL Scores. There will be analysis based on PSLE Tier and SBB/OOS Count soon.



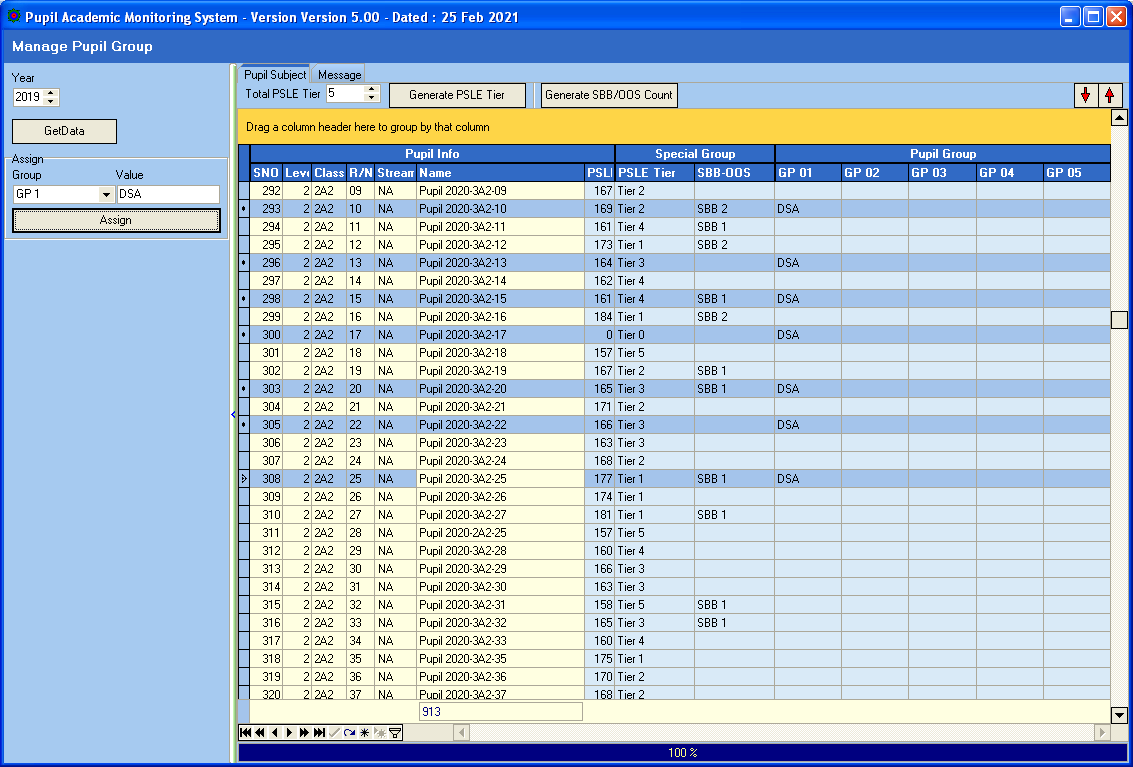
Steps

* Select Total PSLE Tier
* Click Generate PSLE Tier
* Click Generate SBB/OOS Count

## Assigning Group

You can assign Pupils to Various Group (Up to 5 Groups) which you can analyze later.

For example: DSA, Scholars etc.



Steps

* Select Assign Group (G01, G02, G03, G04 or Gp5)
* Enter the Value
* Select Students (Use CTRL+Click)
* Click Assign Button

# Check Subject Allocation List

After you have converted, you will need to check the subject allocated to the students to ensure that the allocation is correct and complete. You may print a copy to get the students to check.

Menu Access: Main Menu || Print Reports



Steps

* Select Pupil Tab
* Select Subject Allocation List
* Select Criteria (Level and Stream)
* Click OK Button

# Check Subject Grading Scheme

Menu Access: System Admin Menu || Subject Grading Scheme



This is NA

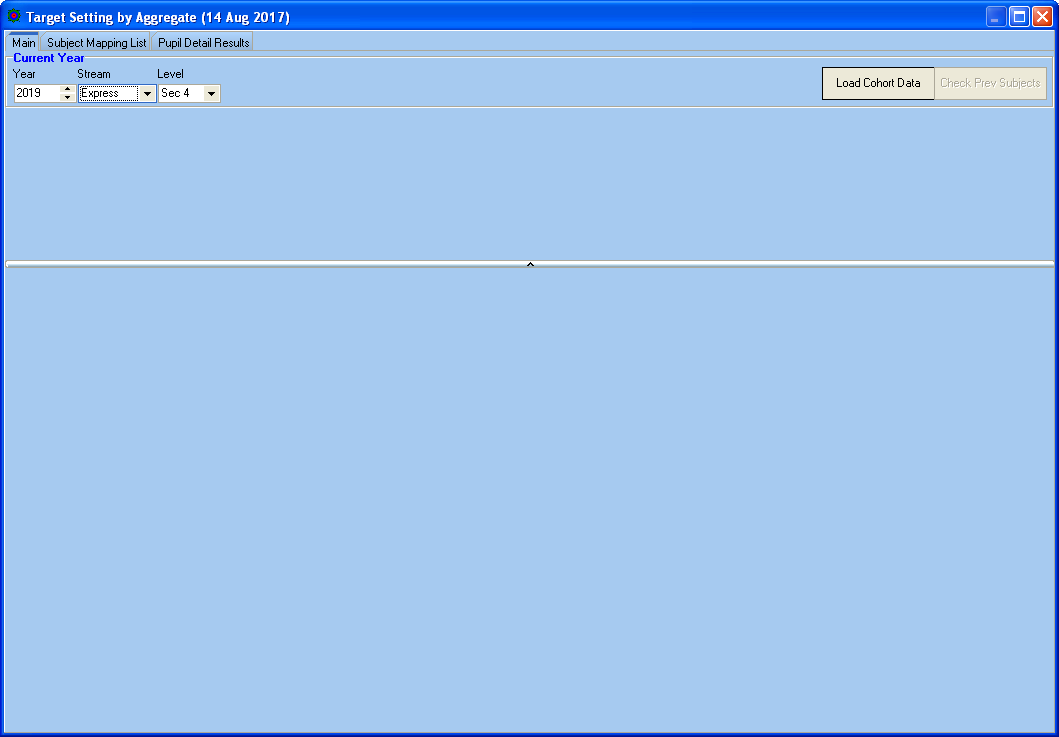
This is Express

Steps

* Select Subject
* Check the Cat (Category) and Grading Scheme especially for Cross-Stream Subjects and the necessary changes accordingly
* Click another record to save

# Target Setting by Aggregate (Using Previous Year Results)

Menu Access: Main Menu || Setup Aggregate Target



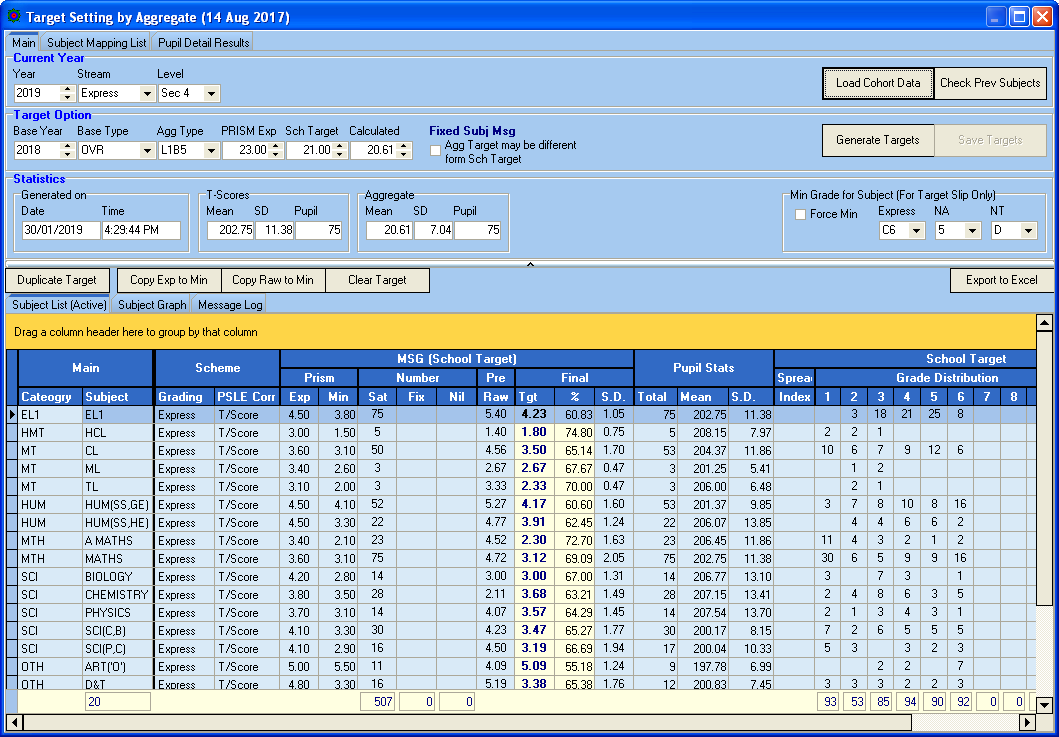
Step

* Enter Current Year Parameters (Year, Stream, Level)
* Click Load Base Data Button

# Check Prev Subjects

Since the Target Setting is based on previous year results, we need to ensure that every student has a corresponding previous year results for each of the subject. This is especially crucial for Sec 3 Students (Sec 2 Subject Codes are different from Sec 3 Subject Codes) and students who are lateral transferred. For example:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sec 3 Subjects | Possible Corresponding Subject (Sec 2 Subjects) | | | | | |
| SS+Geog | Geog |  |  |  |  |  |
| Chemistry | Sci(S/E) | Sci(NA) | Science(T) |  |  |  |
| A Maths | Maths | Maths (NA) | Check Prev Subjects |  |  |  |

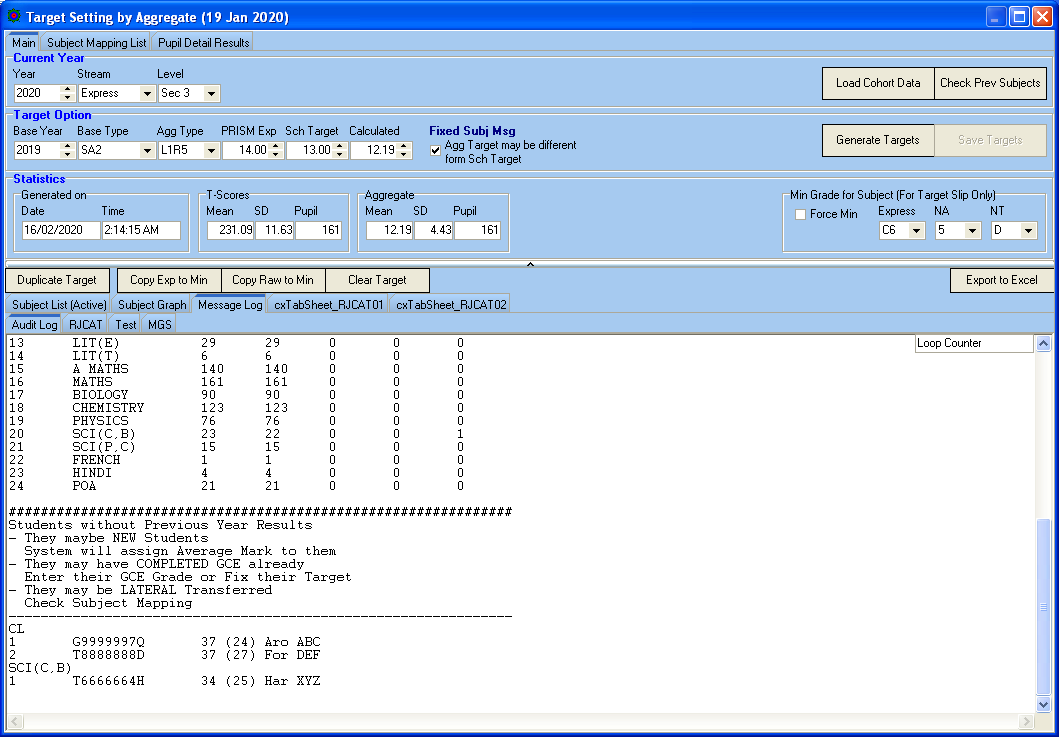


Number of student without previous year results

Here are some of the acceptable cases where Previous Results are not applicable:

New Student - System will assign average marks

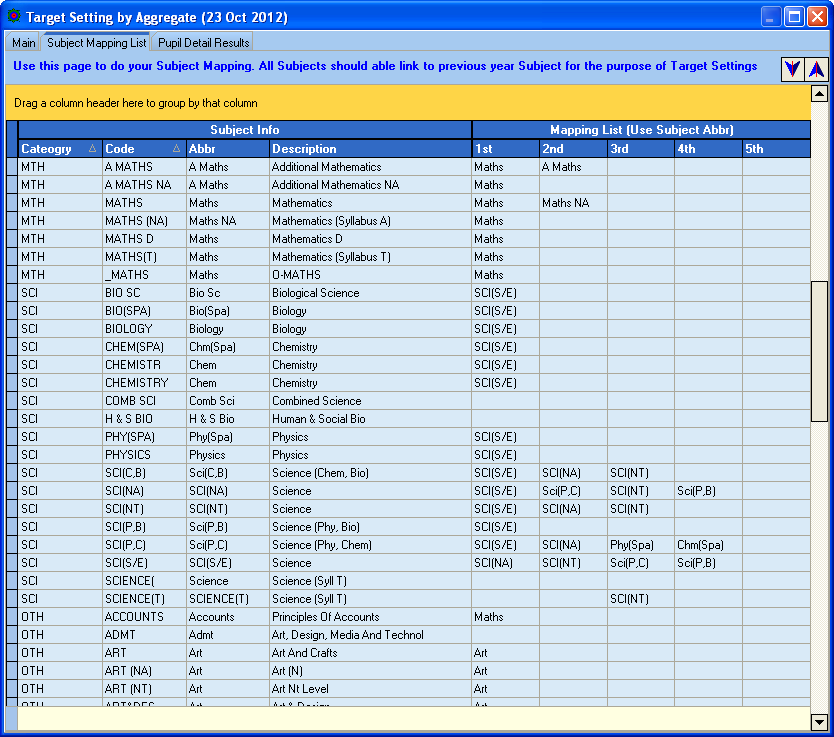
VR Grade - System will assign average marks



# Subject Mapping

The purpose of Subject Mapping is to link the Upper Sec subjects to the Lower Sec subject.

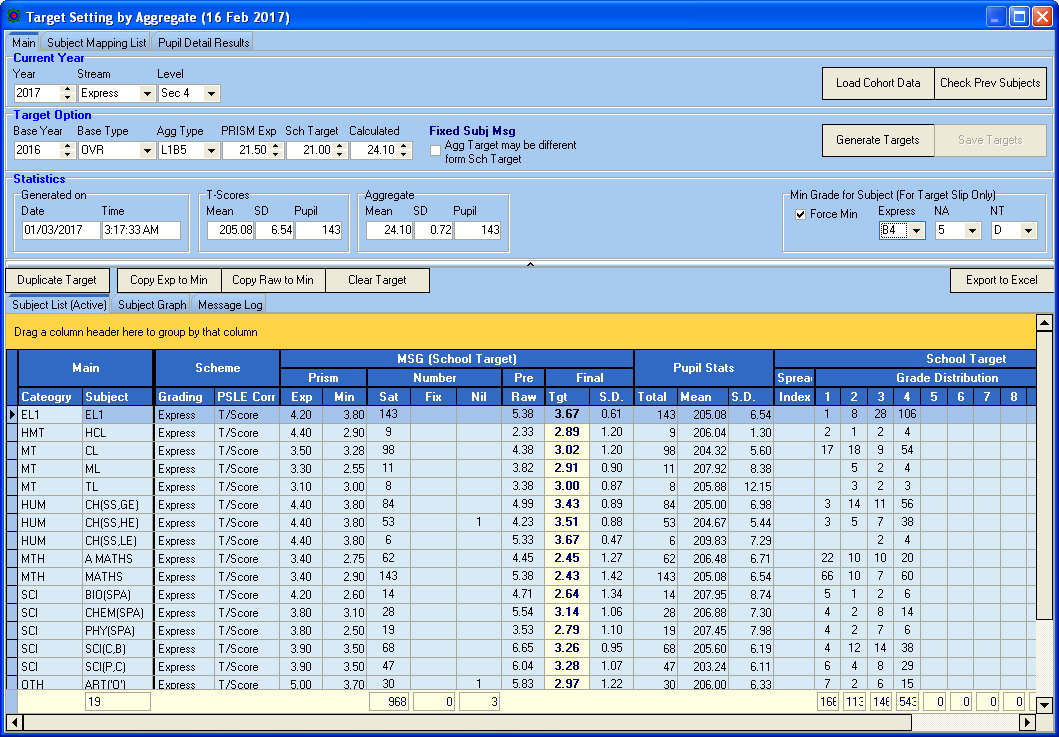
For example, when the system search for previous year result for A MATHS, it should be looking for MATHS or MATHS NA



Steps

* Enter Corresponding Subjects under Mapping List
* To Save, select another record

# Target Option



Minimum Grade to Achieve.

If you do not FORCE, PAMS still able to Print PASS Target for Target Slip,

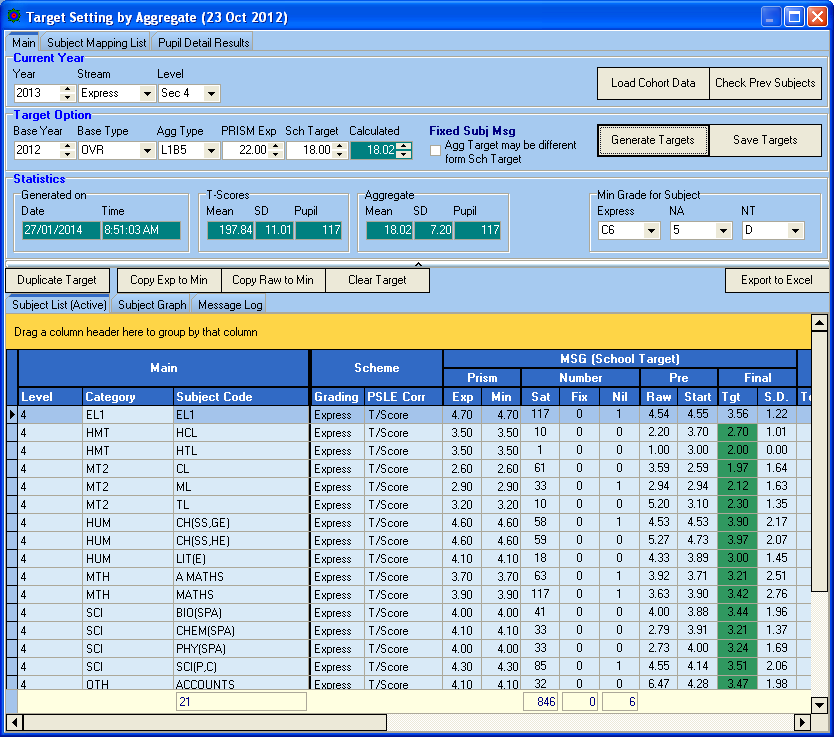
**PRISM Min**Act MSG from PRISM.   
What your school is actually capable of achieving (or Achieved).

**PRISM Exp**For reference only

Step

* Under Target Option
  + Select Base Year
  + Select Base Type
  + Select Agg Type
  + Enter PRISM Expected (for reference only)
  + Enter School Target to Achieve
* Under Subject List (Active)
  + Enter PRISM Exp (for reference only)
  + Enter PRISM Min (Capable of achieving)
* Click Generate Targets Button

# Target Generated



**Statistics**Generated by PAMS.

Step

* Review all the Targets.
* If OK, click Save Targets Button to save the targets to the student database.

# More Statistics

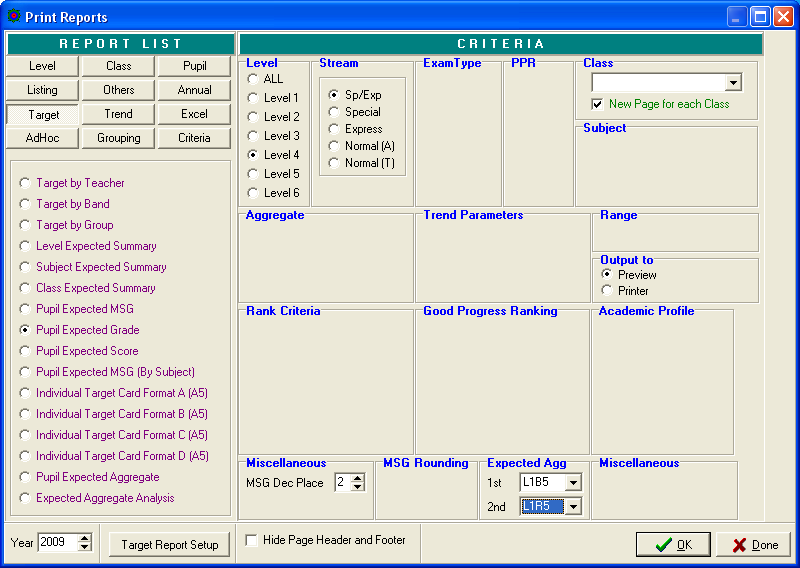
# 

**Statistics**Distribution of Target Grades

Note:

Based on Previous Year Results, some of the students “are” expected to fail. This is the realistic scenario. However, when you print the target slip for student, it will show at least a Min Pass Grade.

# Print Target Reports



Reports you may use:

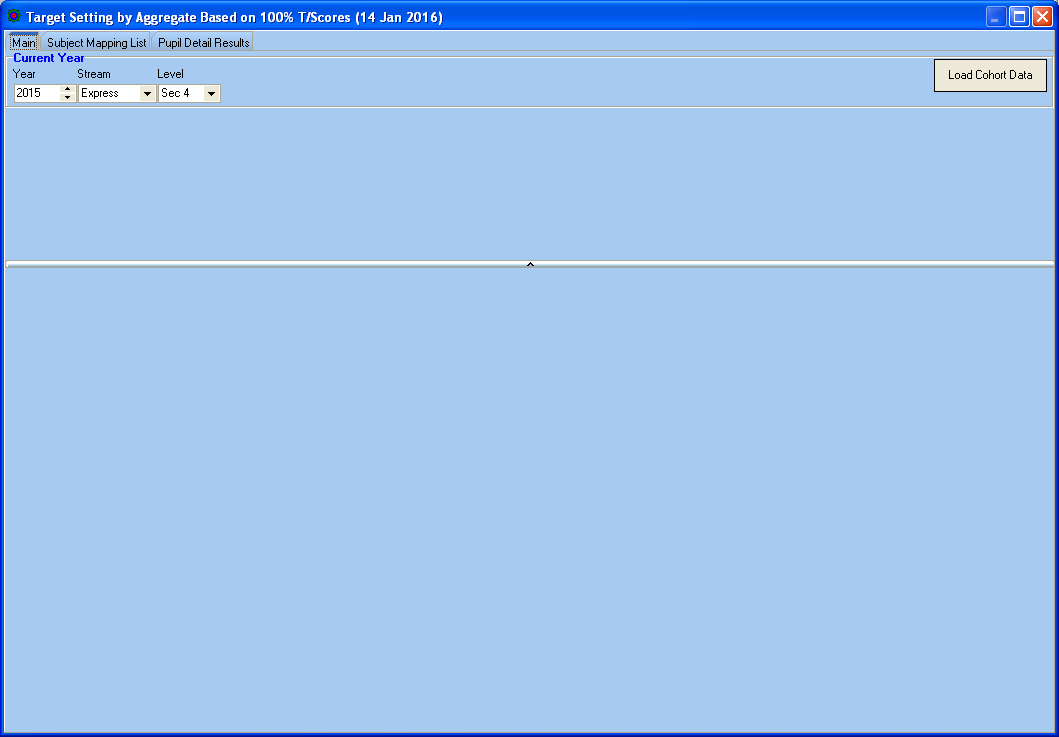
* Level Expected Summary
* Subject Expected Summary

Some basic Layout for Individual Target Card

* Class Expected Summary
* Pupil Expected Grade
* Individual Target Card (Format A to D)

# Setup Aggregate Target Based on T-Scores

Menu Access: Main Menu || Setup Aggregate – T/Scores



Click Load Cohort Data

Enter TARGET OPTION Parameters:

* Agg Type
* PRISM Exp (for reference only)
* Sch Target (for reference only)

Enter PRISM Exp and Min:

* Exp (for reference only)
* Min (Min MSG for each Subject)

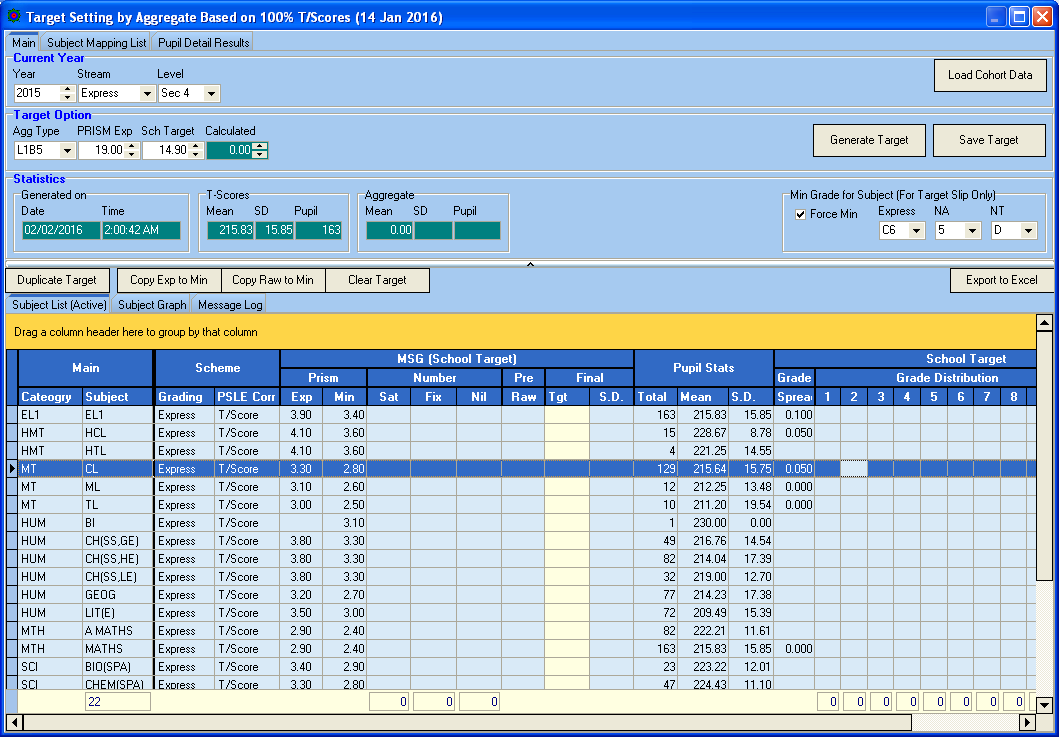
Enter Min Grade for Subject:

* Min Grade for each Stream
* Tick “Force Min” if you

Exp and Min MSG

Enter Spread for Target Grade

* Internal default is 0.05
* If you want More distinction (More spread out for Target Grades), increase the spread to more than 0.05

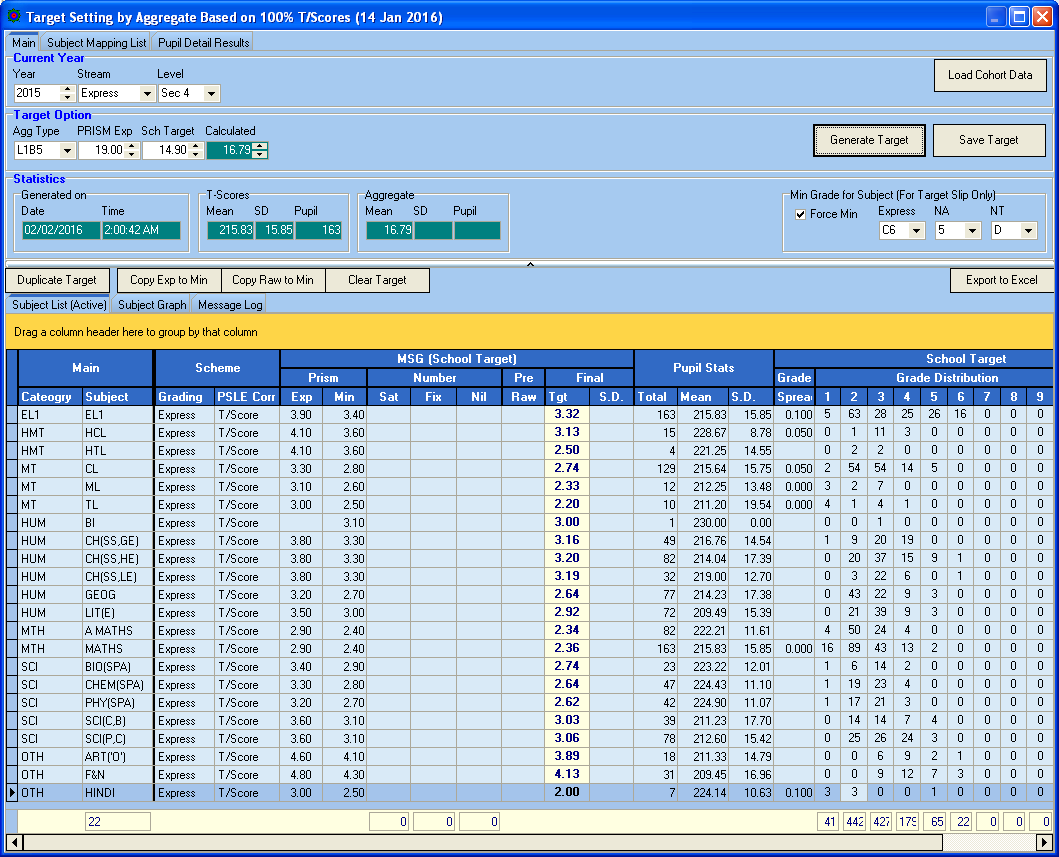


Spread for Target.  
If it is empty (ZERO), the default is 0.05

Min Grade

Target Option Parameters

Click Generate Target button



Target Grade Distribution

Target MSG

Calculated Aggregate Target

If you like the Target, click Save Target button.

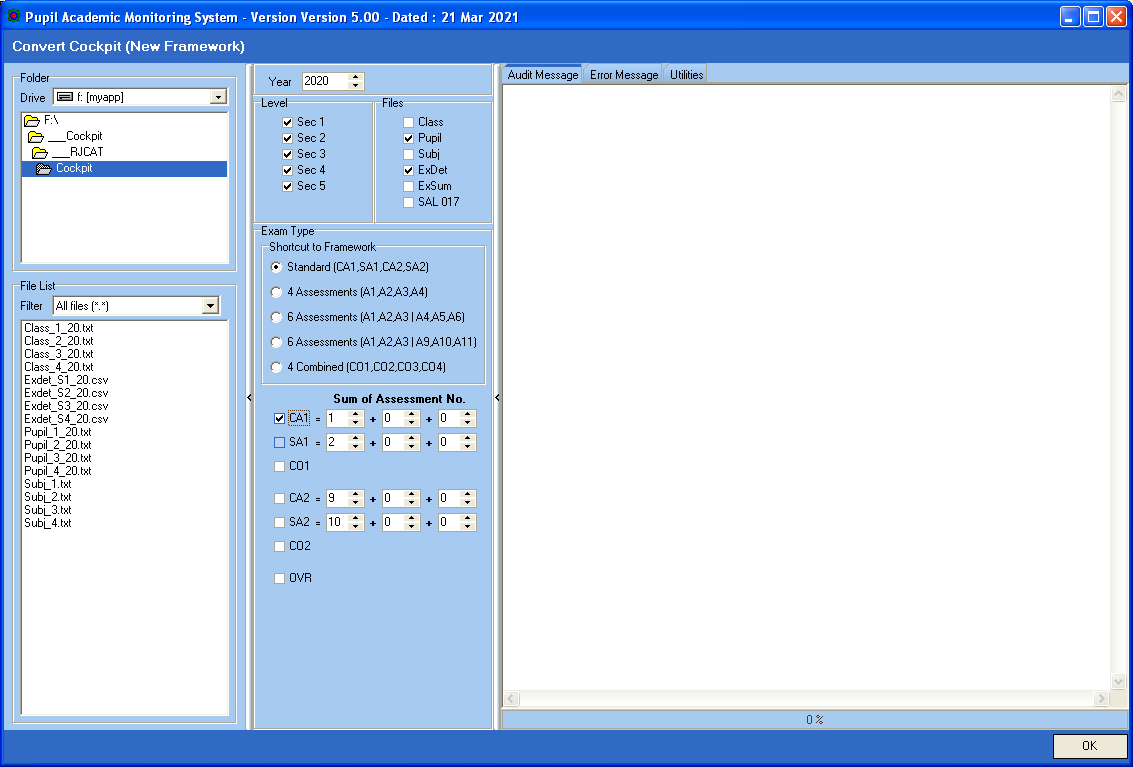
# Analyzing Results

You will need to export the following file from School Cockpit:

* Pupil (Text File)
* ExDet (CSV File)

## Convert Results

Menu Access: System Admin Menu || Convert Cockpit (New Framework)



Select Exam Type

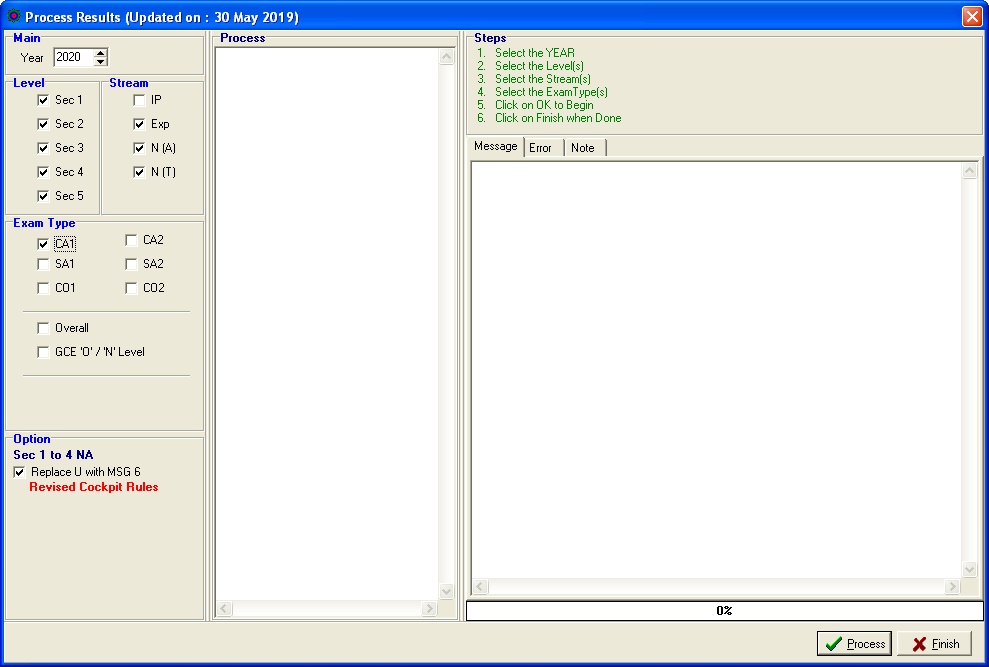
Only Pupil and Exdet are needed at this time

Steps

* Select your Directory where you stored your Cockpit Text Files
* Select Level
* Select the Files
* Select the ExamType (For now is just CA1)
* Click OK Button

## Process Results

Menu Access: System Admin Menu || Process Results



Steps

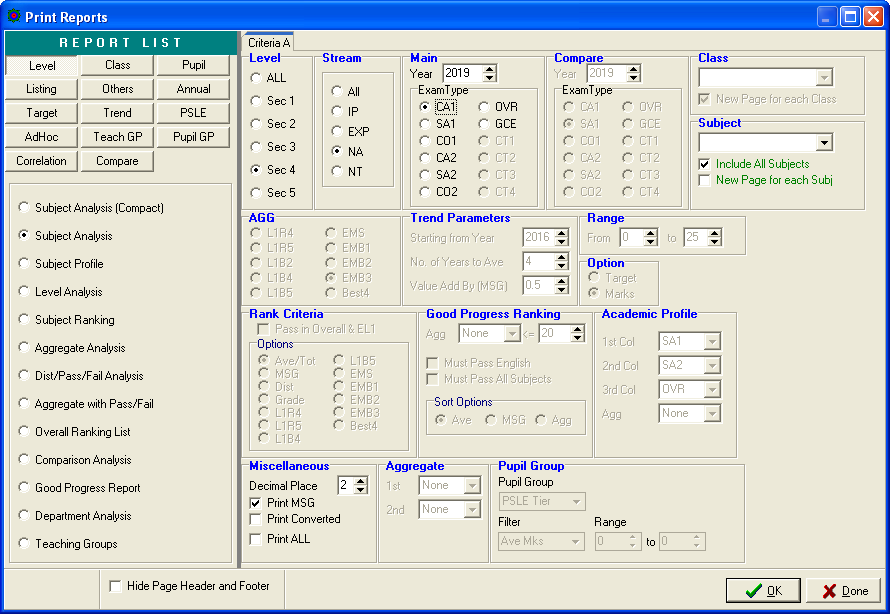
* Select Level and Stream
* Select ExamType
* Click Process Button

Note: You may check the Results via VIEW Results.

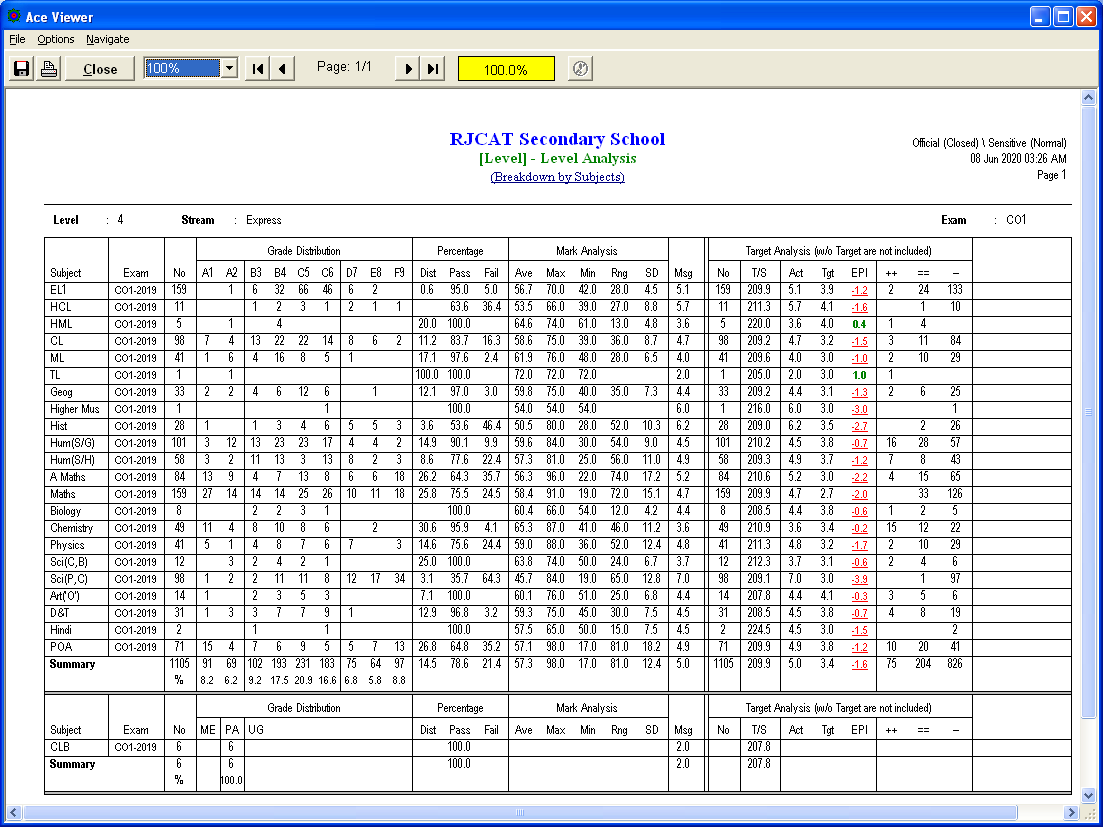
# Print Reports

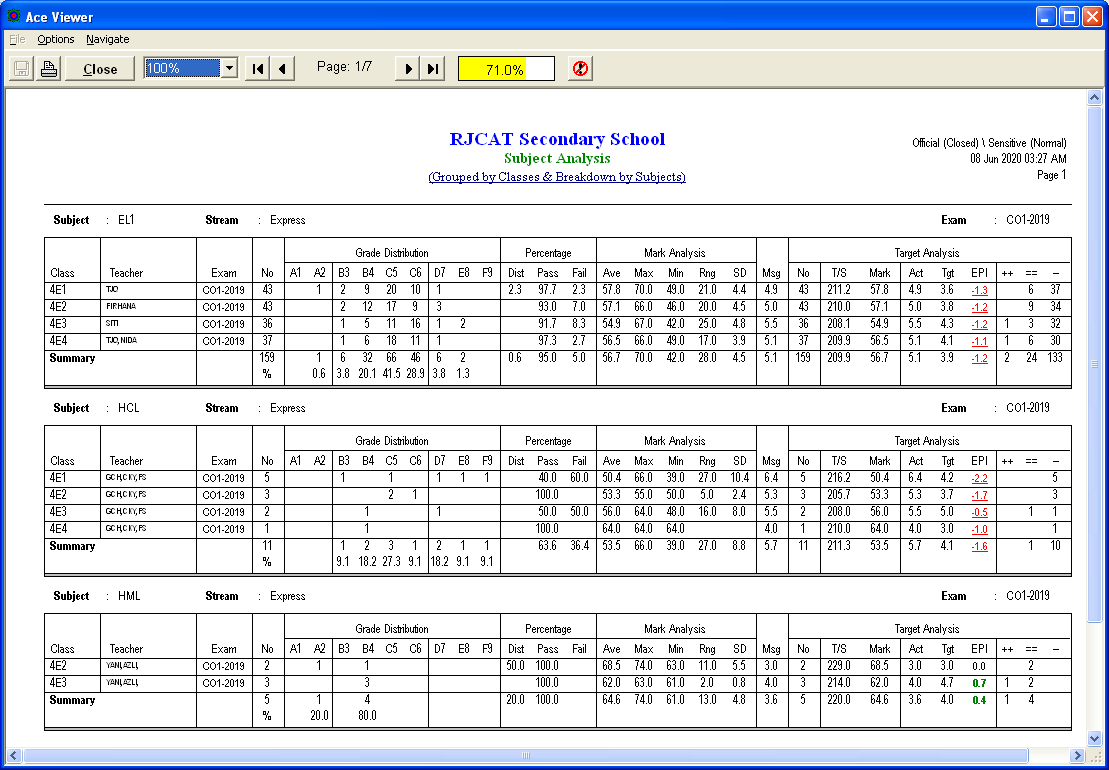
There are some key reports which are informative.

## Level Analysis

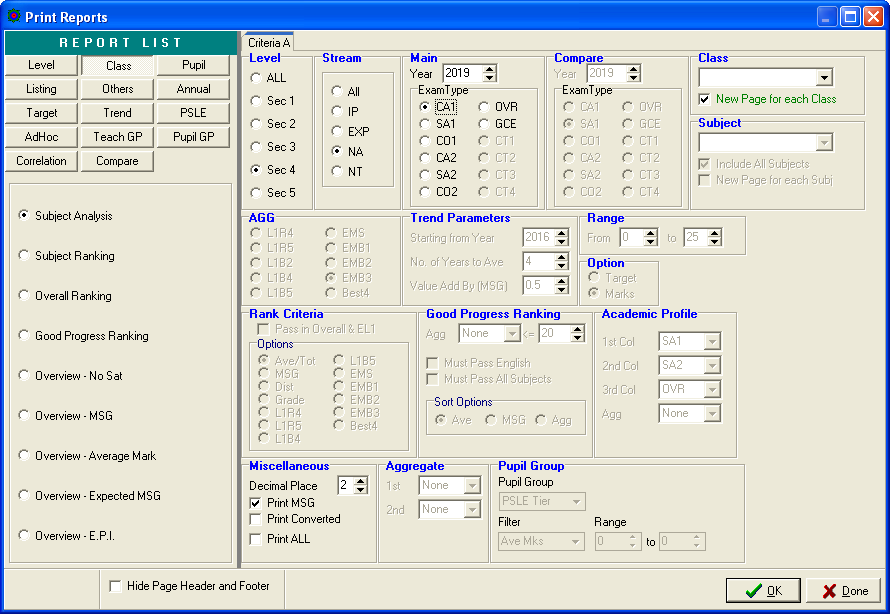


**Sample**



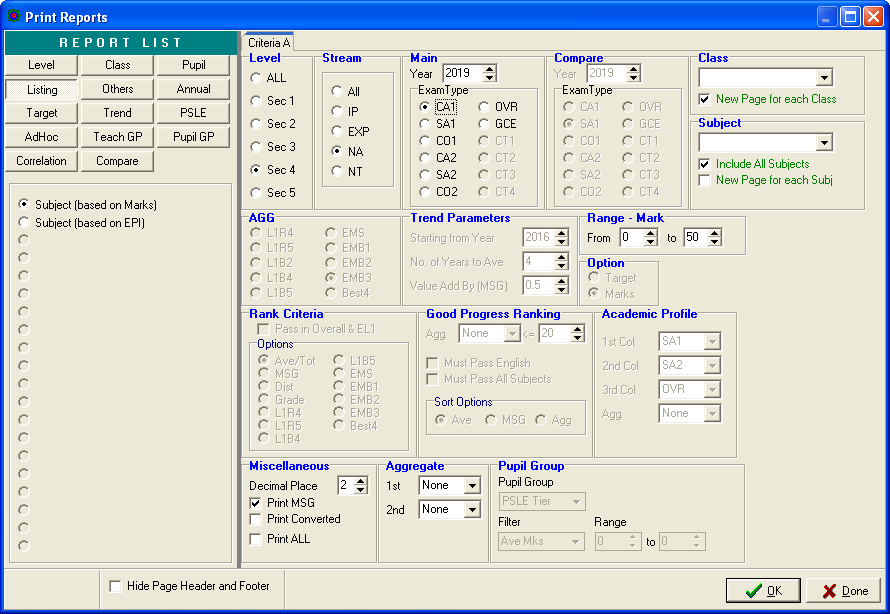


## Class Analysis

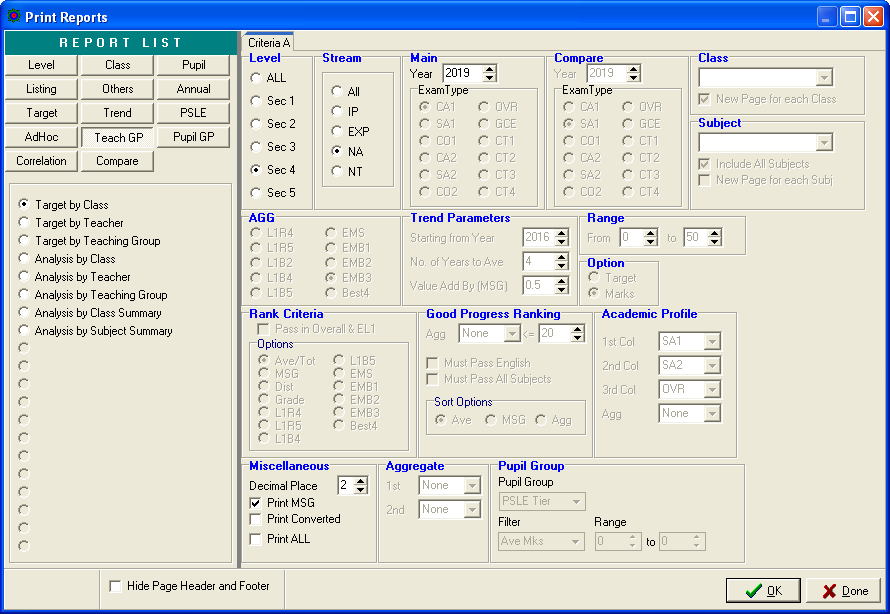


## Listing

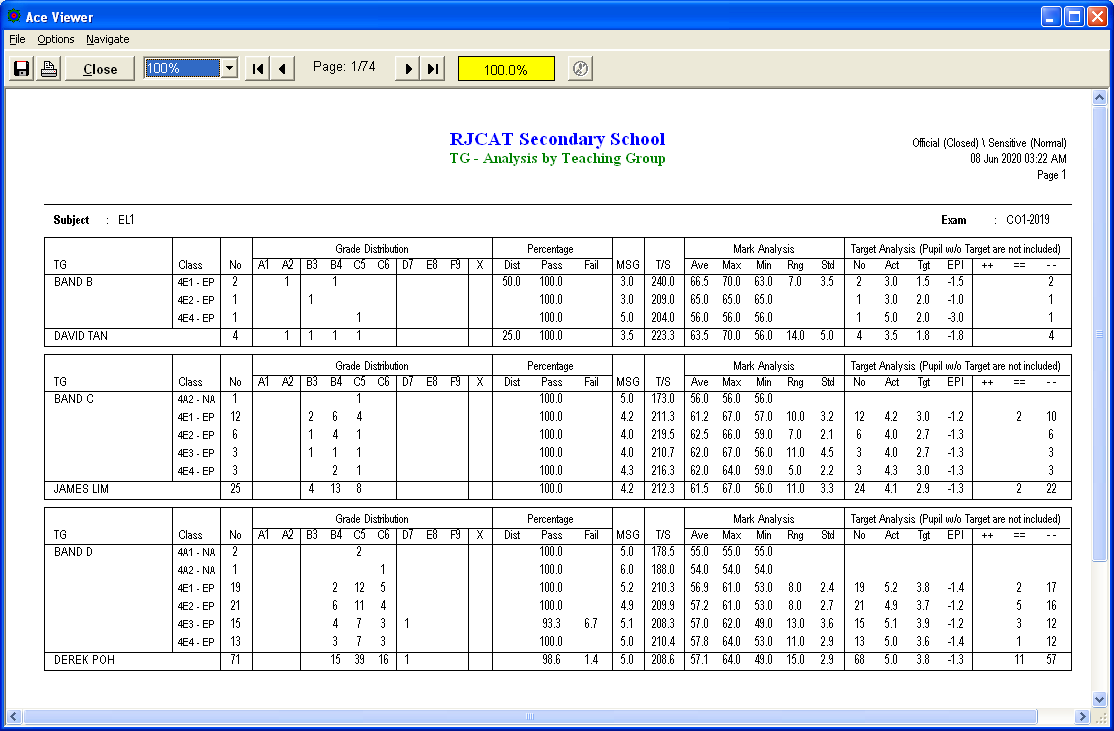
Students who did not meet targets



## Teaching Group

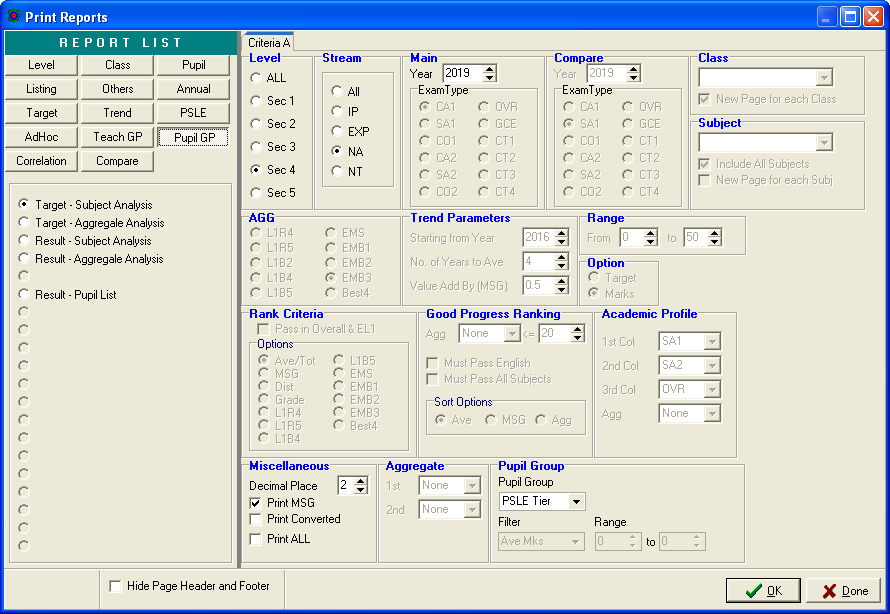


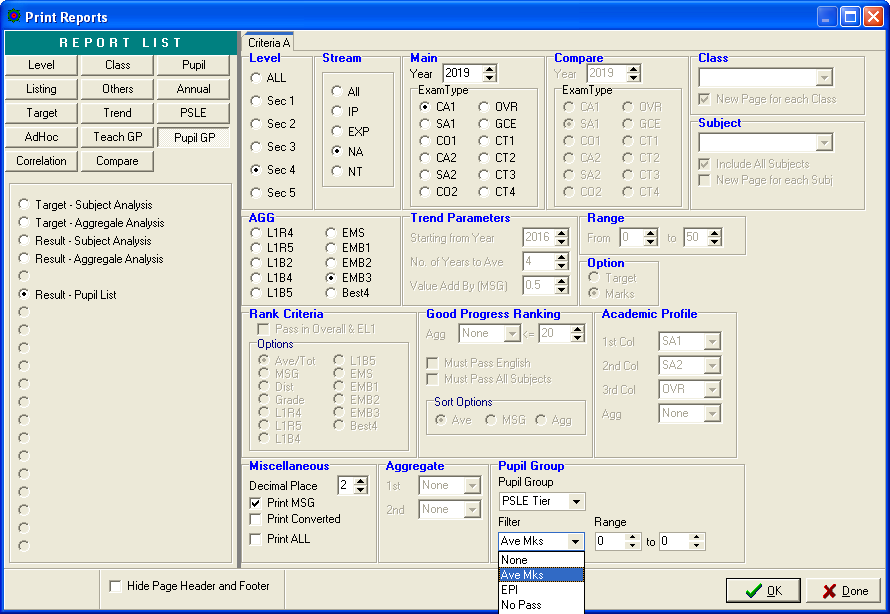
**Sample**



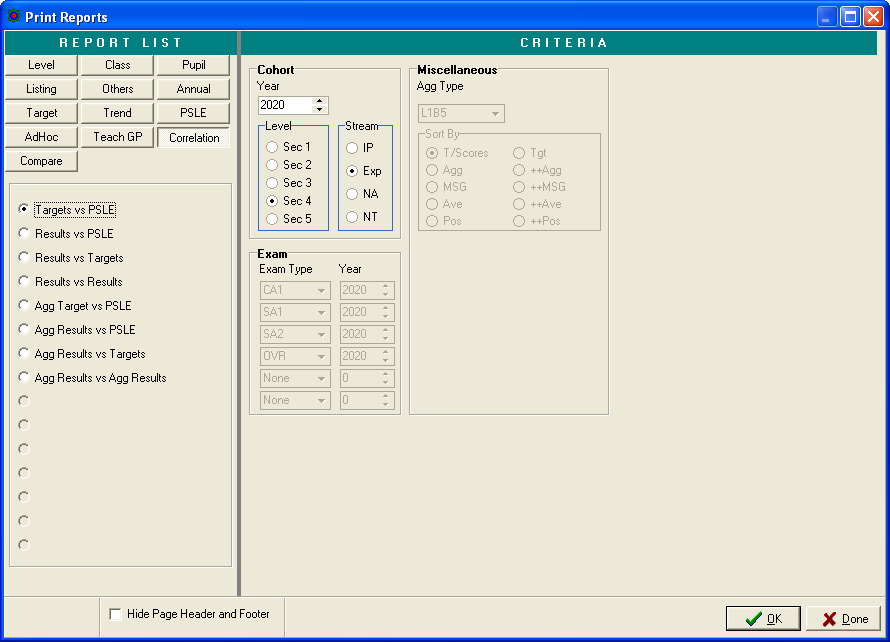
## Pupil Group (New Reports)

This is a new set of reports. You can analyze by PSLE Tier, OOS/SBB, Pupil Groups defined and Class. In addition, you can filter out students based on criteria such as AVE Mks, EPI, Subject Passes, Aggregate etc.

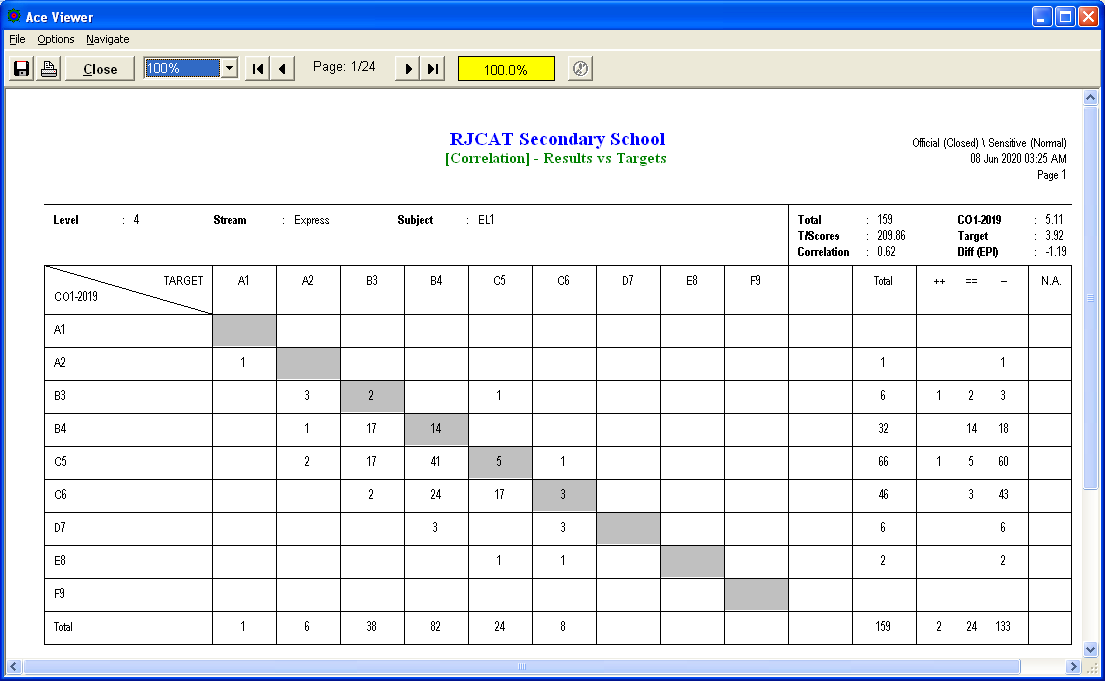




## Correlation



**Sample**



# EXCEL Import/Export

Menu Access: System Admin Menu || Excel Import/Export

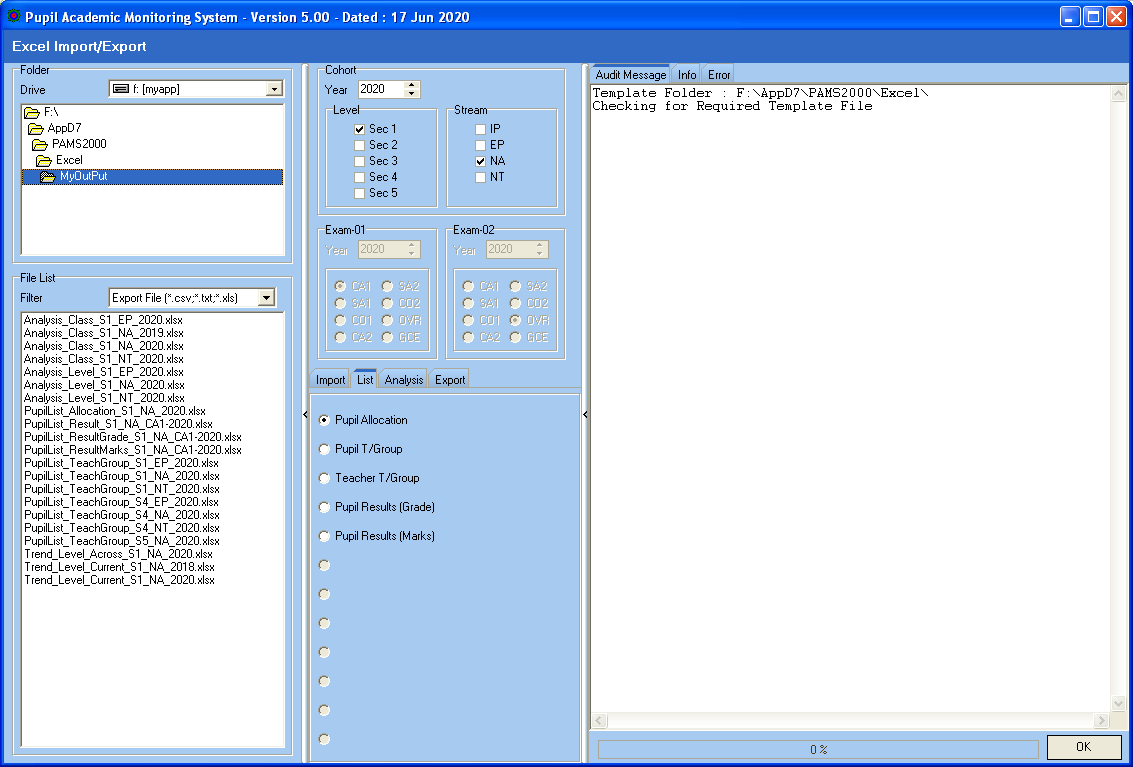
There are 3 Excel Template needed. They must be stored in C:\APPS\RJCAT\PAMS\Excel

\_Template\_Analysis.xlsx

\_Template\_ListPupil.xlsx

\_Template\_ListTutor.xlsx

You may download the templates from RJCAT website.



You can create your own folder with My Computer before exporting.

Steps

* Select Year (Cohort Year)
* Select Level and Stream
* Exam Type (If needed)
  + Select Exam
  + Select Exam Year
* Click OK Button

Note:

**IMPORT** Pupil Target will work with **EXPORT** Pupil Target

**IMPORT** Pupil T/Group will work with **LIST** Pupil T/Group

**IMPORT** Teacher T/Group will work with **LIST** Teacher T/Group