

Data Quality 2 (DQ2)

Florida Association of Management Information Systems

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DQ2 Introduction

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What is DQ2?

The Data Quality 2 (DQ2) solution is a state reporting processing tool that allows school districts to submit survey data to the Florida Department of Education (FDOE) electronically via user-friendly technology in a web-based environment.

Survey Preflight System (Sand Box):

Workforce Development Information Systems (WDIS), PK-12 Student Information Systems (STUDENT) and PK-12 Staff Information Systems (STAFF) utilize the DQ2 Preflight system to prepare quality data in advance of production survey file processing.

Data residing in Preflight is NOT used by FDOE in official reporting.

Survey Production System:

WDIS and STAFF systems utilize DQ2 Production during the official survey windows.

STUDENT system utilizes the Northwest Regional Data Center (NWRDC) for reporting production data.

Production data is used by FDOE for data quality and reporting.



DQ2 Components – TIBCO[®]

• TIBCO[®] is FDOE's secure file transfer protocol (SFTP) server:

https://xfiles.fldoe.org

- Files ready for submission are dropped into the district's TIBCO[®]
 DQ2\IN\WDIS folder or DQ2\IN\K12 folder, in either the Preflight or Production subfolder.
- DQ2 system continuously checks TIBCO[®] DQ2 IN folders.
- DQ2 system sends 'Batch Records in Error', 'Validation, Exception' reports and 'D-Files' back to the district's TIBCO[®] DQ2\OUT\WDIS folder or DQ2\OUT\K12 folder in Preflight or Production.
- Files in the TIBCO[®] OUT folders have a **14-day retention period**.



DQ2 Components – User Interface (UI)

- The DQ2 System's User Interface (UI) application is a webbased tool used by districts in order to view the history of file submissions and batch errors reports, and to request validation/exception reports, D-files and more.
- The DQ2 UI presents STAFF and WDIS users the choice to access the Preflight or the Production area via a Gateway screen (the first screen displayed when logging into DQ2).
- Users with only the STUDENT role will be routed to the Preflight home screen.



DQ2 – How to Obtain Access





- The DQ2 UI application is accessible via FDOE's Single Sign-On (SSO) system, <u>www.fldoe.org/sso</u>.
- For additional SSO support, go to <u>https://portal.fldoesso.org/PORTAL/Sign-On/Resources/Support.aspx</u>
- Enter the school district name in "Select your organization".
- Contact your district's SSO Administrator to obtain access to DQ2 and they will determine your user roles.

<u>Role Name</u>	<u>All /Internal FDOE/</u> <u>External District</u>	Description
User	All	The User role is required for all users to access DQ2 User Interface (UI)
K12	External District	The K12 role must be assigned along with both the Student and Staff role
Student	External District	Users with the Student role can access student survey data for their district in Preflight
Staff	External District	Users with the Staff role can access Staff survey data for their district in both Preflight and Production
WDIS	External District	Users with the WDIS role can access WDIS survey data for their district in both Preflight and Production
Delete File	External District	Users with the Delete role can delete survey data in both Preflight and Production
School User	External District	Users with the School User role can view survey data for their assigned school



Accessing the DQ2 UI (continued)

Once authorized by the district SSO Administrator, users can access the DQ2 UI by logging into the SSO portal at <u>https://portal.fldoesso.org</u>, selecting the **EDUCATORS** tile as shown below and then clicking the orange **DQ2** tile. Users can also access the UI directly at <u>https://dq2.fldoe.org/</u>.





DQ2 – Data Flow

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Data Flow – File Processing

- Districts send predefined format data files, found in the database manuals, to DQ2 Preflight or Production via the TIBCO[®] IN folder. Survey files are processed in the order they are received.
- DQ2 Preflight is generally available one month before the official Survey State Processing Window opens, and it remains open throughout the school year.
- DQ2 Production is open on the first day of the official Survey State Processing Window and closes at 11:59:59 pm (Eastern Time) on the Final Update/ Amendment Date.
- When files are uploaded, all handbook edits for the formats submitted will be validated against the data for each record received.
 - All records that fail one or more reject edits will not be accepted into the database as an add, change or delete.
 - When applicable, districts must review the "Batch Records In Error" report, correct the records containing reject edit errors by fixing data in their local system and then send an updated file.



DQ2 Flow – TIBCO[®] IN Folder

- When submitting fixed-width files to DQ2 via a TIBCO[®] IN folder, districts must follow the correct naming convention as shown below and the file must have a .txt extension or no extension at all.
- WDIS:
 - DPSdd.JU.Fxxxx.Yyyyys.txt (where dd = district number, Fxxxx = WDIS file ID number, yyyy = year and s = survey).
 - See WDIS Appendix E for more information.
- STAFF:
 - DPSdd.GU.Fxxxx.Yyyyys.txt (where dd = district number, Fxxxx = STAFF file ID number, yyyy = year and s = survey).
- STUDENT:
 - DPSdd.GQ.Fxxxx.Yyyyys.txt (where dd = district number, Fxxxx = STUDENT file ID number, yyyy = year and s = survey).
 - For STUDENT and STAFF, see the PK-12 Database Manuals/User Manual Appendix D for more information.



Data Flow – Batch Records in Error Reports

Batch Records in Error Reports

- The Batch Records in Error reports are generated after files submitted to DQ2 are successfully processed. The results can be reviewed in the DQ2 UI and in the district's DQ2-OUT folder in TIBCO[®] the next morning.
- Preflight and Production reports are generated overnight.

• Example Batch Records in Error Report file names in DQ2-OUT folder:

- DPSdd.**GQ**.Fxxxxx.YyyyysYYYYmmddHHmmssfff.txt.YYYYmmdd.HHmmss
- DPSdd.GU.Fxxxxx.YyyyysYYYYmmddHHmmssfff.txt.YYYYmmdd.HHmmss
- DPSdd.**JU**.Fxxxxx.YyyyysYYYYmmddHHmmssfff.txt.YYYYmmdd.HHmmss

NOTE: dd = district number, **GQ = STUDENT, GU = STAFF, JU = WDIS**, Fxxxxx = batch file ID number, yyyy = year, s = survey, YYYYmmdd(.)HHmmss(fff) = date/timestamp.



Data Flow – Validations/Exceptions

Once the district has corrected all reject edit errors,

the district requests validation and exception reports:

- Requests will be put in a queue and be processed in the order they are received.
- The district retrieves and reviews reports. If necessary, the district corrects errors by fixing data in their local system and sending new submission files.
- Validation errors must be corrected.
- Exception errors must be investigated further to determine if a correction is necessary.



Data Flow – Validation and Exception Reports

Validation and Exception Reports

- Validation and Exception reports are generated after the district requests the reports and the reports are processed. The results can be reviewed in the DQ2 UI and in the district's DQ2-OUT folder in TIBCO[®] on the same day as the report was requested.
- Preflight and Production reports are generated on the same day.

• Example Validation (or Exception) Reports file names in DQ2-OUT folder:

- DPSdd.**JU**.Fxxxxx.Yyyyys_ValidationReportOutputFile.txt.YYYYmmdd.HHmmss
- DPSdd.GU.Fxxxxx.Yyyyys_ValidationReportOutputFile.txt.YYYYmmdd.HHmmss
- DPSdd.**GQ**.Fxxxxx.Yyyyys_ValidationReportOutputFile.txt.YYYYmmdd.HHmmss

NOTE: dd = district number, **GQ = STUDENT, GU = STAFF, JU = WDIS**, Fxxxxx = report ID number, yyyy = year, s = survey, YYYYmmdd.HHmmss = date/timestamp.



Data Flow – D-Files

Once the district has corrected the validation and exception errors, **the district can request D-Files:**

- D-Files are a dump of clean data that has been loaded into the database of the DQ2 system you are working in (Preflight or Production).
- Clean data means these records did not have any reject errors.
- D-Files are identical to the layout of the format files the district sent to FDOE.



Data Flow – D-Files

• D-File

- D-Files for STUDENT (Preflight) and STAFF (Preflight/Production) are generated the day after the district requests the file.
- D-Files for WDIS (Preflight/Production) are generated the same day that the district requests the file.
- The files will be found in the district's DQ2-OUT folder.

• Example D-File Names:

- DPSdd.**JU**.FxxxxxD.Yyyyys.txt.YYYYmmdd.HHmmss
- DPSdd.**GU**.FxxxxxD.Yyyyys.txt.YYYYmmdd.HHmmss
- DPSdd.**GQ**.FxxxxxD.Yyyyys.txt.YYYYmmdd.HHmmss

NOTE: dd = district number, **GQ = STUDENT, GU = STAFF, JU = WDIS**, Fxxxxx = file ID number, yyyy = year, s = survey YYYYmmdd.HHmmss = date/timestamp



DQ2 – Navigating Screens





DQ2 – UI Gateway

To view files submitted through TIBCO[®]:

- STUDENT, STAFF or WDIS files: click the blue Preflight tile in the UI to see the Preflight files submitted to DQ2.
- WDIS or STAFF files: choose the green **Production** tile in the UI to see the Production files submitted to DQ2.

GATEWAY	CONTACT DOE	NEWS	FAQ	USER MANUAL	ß	Dana Causey (Administrator) 🗸	*	Gateway			
						DQ	2 Pre	flight / DQ2 Proc	duction		
GateWay											
prior to official survey	submission. Data resid	ing in the Pref	flight syst	em will not be used b	y FLDOE	ght system is used to review survey data a for any reporting. The Production system LDOE will use only your production data f	is the	official survey proces	ssing		
	Pl	ease sel	lect p	reflight or p	rodu	ction					
	CO DQ2 Preflight					DQ2 Staff Production					
						DQ2 WDIS Production					
	www.FLDOE.org										



DQ2 – User Interface Dashboards

STAFF and WDIS each have unique, system-specific dashboards. The dashboards also look different depending on whether you are in DQ2 Preflight or DQ2 Production.





DQ2 – Survey Submission Files

- Survey Submission Files are accessed through the "File Processing" menu.
- Narrow down the search by specifying the survey criteria.
- If there are no files listed under the blue bar, either no files have been submitted or the submitted files were not processed due to bad filename(s).
- Select one of the Survey Year links to access more detailed information about the specific file formats processed for that year and survey.

FLO	ORIDA DEPARTA	AENT OF								
HOME -	FILE PROCESSING -	REPORTS	SEARCH-	NEWS	FAQ	USER MANU		Dana Causey	(Administrator) +	🖀 Gateway
									Q2 Production	
Survey Sub	missions								ø	
	District:		School Y 2022			vey Type: -Select All Staff NDIS	Ì	Survey: Select All Survey F Survey G Survey W		
Survey Year				IMIT			Survey	A. 17 50		
2022-2023			Typ				F			
mand, B. Ch. C				ww.FLC	DOE.					



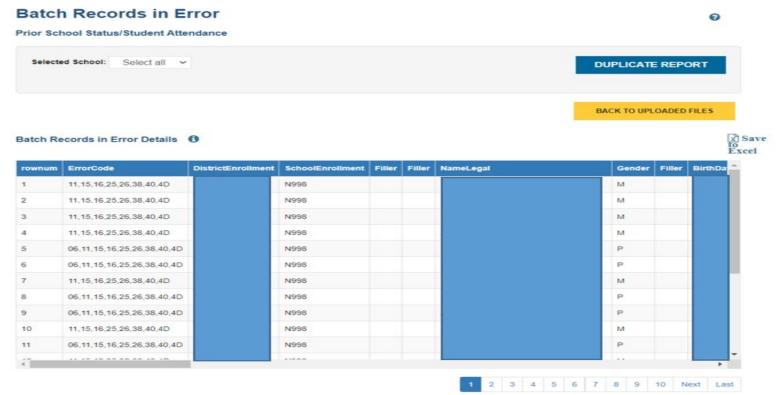
DQ2 – Batch Records in Error Report Screen

FLORIDA DEPARTMENT OF EDUCATION fldoe.org	I						
HOME - FILE PROCESSING - REPORTS	SEARCH-	NEWS F	AQ USER MANU	JAL 🗋 Dana	Causey (Adm	ninistrator) - 🐔	Gat
					DQ2 F	Production	
DIS Uploaded Files						0	
Filter by FormatSelect All Format		~					
		Year : 2022-202	23 Survey: F				
						ELETE	
	Total Records	Records Clean	Records Rejected	Upload Date 01-18-2023 10:07:18 AM	Status	Reports	
ormat VDIS Adult Test Record (F71124)		Records Clean	Records Rejected			and the second second	
VDIS Adult Test Record (F71124)		Records Clean	Records Rejected		Status Processed	Reports	
	8	Records Clean	Records Rejected	01-18-2023 10:07:18 AM	Status Processed Processed	Reports	



DQ2 – Batch Records in Error Report Screen

- District users can review reject records and error codes by file format.
- The Duplicate Report allows users to view the duplicate records within the file and the outcome.





DQ2 – Batch Records in Error Report Screen

• All error codes, associated descriptions and counts for each error can be viewed on this screen.

Batch Records in Error Description (1)

x Save to Excel

EditCode	ERROR_DESCRIPTION	i
06	Gender code must be M or F.	
11	School Year must be correct for the submission specified by the district.	
15	Prior School/Location: State/Territory or Commonwealth must be a valid code as listed in Appendix H or Appendix Q of the DOE Information Data Base Requirements Volume I Automated Student Information System Manual or ZZ.	
16	Prior School/Location: Country must be a valid code as listed in Appendix G of the DOE Information Data Base Requirements Volume I Automated Student Information System Manual other than ZZ, unless the Term is Y, then Country should be Z-filled.	
17	Withdrawal Code, PK-12 must be DNE, W01, W02, W3A, W3B, W3D, W3E, W04, W05, W06, W07, W08, W8A, W8B, W09, W10, W12, W13, W15, W18, W21, W22, W23, W24, W25, W26, W27, WEL, WFT, WFW, WRW, WWE, WWT, WWW, WGA, WGD, WHP, WXL, WXT, WXW, WD1, WPC or WPO. It may also be ZZZ only for survey periods 2 and 3.	

District Error Count (1)

EditCode	Count
06	133847
11	276034
15	263687
16	275994
17	59
24	1
25	275990

BACK TO UPLOADED FILES



DQ2 – Reports Accessed Through the Reports Menu

The Reports menu shows the reports available for the system being accessed such as D-Files, Validation/Exception, Edit Status, Survey Data and Error Code Reports.

	HOME	FILE PROCESSING -	REPORTS	NEWS	FAQ	USER MANUAL	ß	k12 User (Staff User) 👻 🔺 Gateway
								DQ2 Preflight
REPORTS								٥

	Report Name	Description
Ξ	D - FILES	THIS IS A BATCH REPORT OF ALL CLEAN DATA BY FORMAT
Ξ	EDIT STATUS	THIS REPORT LISTS ALL ACTIVITIES PERFORMED BY THE DISTRICT
Ξ	K12 ERROR CODE REPORT	THIS REPORT LISTS K12 ERROR CODE AND DESCRIPTION
≡	VALIDATION / EXCEPTION	THIS REPORT LISTS ALL VALIDATIONS / EXCEPTIONS FOR THE SELECTED FORMAT



DQ2 – Validation/Exception Reports Screen

Validation / Exception Report

0

District:	School Year:	Survey Type:	Survey:
	2022-2023 ~	Staff ~	Survey 2 ~
	SUBM	т	D

	Format	Report Format	Report Number	Requested Date	Completed Date	Processed	Records Failed	Report	Status
	Staff Additional Job Assignments	Validation Report	F71279						
0	Staff Additional Job Assignments	Exception Report	F71279						
0	Staff Benefits	Validation Report	F71276	2022-10-18 08:42:19	2022-10-18 08:42:41	11755	0	=	Ready
0	Staff Demographic Information	Validation Report	F71277	2022-12-09 14:27:48	2022-12-09 14:28:01	3164	0	=	Ready
0	Staff Demographic Information	Exception Report	F71277	2022-12-09 14:27:48	2022-12-09 14:28:20	3164	152	=	Ready





DQ2 – Survey Data Report Sample

The Survey Data Report shows the **count of clean rows** in the database for each format based on the selected year and survey.

	District Name	Year		Survey 1	Гуре	\$	Survey			
		2018-2019	~	WDIS	~	Survey	/ F	~		
										GENERATE REPORT
$ \triangleleft$	< 1 of 2 ?	> >	U	¢	100%	~		ß	Find	Next
2		N OF				Su	vey Da	ata I	Report -18	19 8/13/2024 10:31:02 AM

DISTRICT		Survey F										
	DEMO AGE TEST CTESC SUPPL TEACH											
	540	90	146	530	159	105	540					



DQ2 – Production Search Screen

- The WDIS or STAFF Search Screen allows users to search for a person and view their clean records for all formats. Click on the SEARCH tab on the navigation bar at the top of the screen. To search for a person's information, populate the required fields then click the SUBMIT button.
- A grid will be populated containing search results. Click on the desired person's name to be routed to the Demographic tab. <u>Note</u>: there must be a clean Demographic Record loaded to the database to view any data.

Staff	Search	Screen
-------	--------	--------

SSN:			Staff ID,Local:*		
Fiscal Year:*	2022-2023	~	Survey:*	Survey 3	~
District No:*		~	School No:		

Click on the name link to view detailed survey data for the selected staff member.

District	School	Name	Social Security	Survey Period	Fiscal	Florida Education	Staff Number Identifier	
Number	Number		Number	Code	Year	Identifier	Local	
	0351	Doe, Jane	XXX-	3	2223	FL00000000000	-	

O



DQ2 – Production Search Screen

 From the Demographic Information screen users have the option of viewing clean data for the other formats by clicking on the format name link.

Staff Demographic Information

Staff Format	District:	Year: 2223 Survey: 3	School:
Demographic Information Additional Compensation	First Name: .	Last Name:	Staff Number Identifier:
Additional Job Assignments	Staff Information		
Benefits	Social Security Number: XXX-	Florida Education Ide	ntifier: FL000000000000
Experience	First Name: J	Middle Name:	Last Name: E
Payroll Information	Ethnicity: N	Race: B Gender: M	Birth Date:
	Staff Mailing Address:		
	City:	State	Zip



DQ2 – D-File Request Screen

Generate "D" Files

		2018-2019 •	WDIS .		
Survey:	Filter by For	mat			
Survey F *	WDIS Ad WDIS Ca WDIS St	dult General Education dult Test Record areer and Technical Stu udent Demographic Inf	Î.		
		SUB	МІТ		

Year : 1819 Survey: F

	Report Format	Request Status	Requested Date	Completed Date
	WDIS Adult General Education	Ready	2018-10-16 10:10:13	2018-10-16 10:10:41
1	VDIS Adult Test Record	Ready	2018-10-16 10:10:19	2018-10-16 10:10:48
0	VIDIS Career and Technical Student Course Schedule	Ready	2018-10-16 10:10:24	2018-10-16 10:10:56
1	V DIS Student Demographic Information	Ready	2018-10-16 10:10:27	2018-10-16 10:11:04
1	VIDIS Student End of Term Status	Ready	2018-10-16 10:10:33	2018-10-16 10:12:00
1	VDIS Supplemental Information Format	Ready	2018-10-16 10:10:37	2018-10-16 10:12:07
9	WDIS Teacher Course	Ready	2018-10-16 10:10:40	2018-10-16 10:12:15



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DQ2 – Delete Requests

- **IMPORTANT**: Performing a **DELETE** of a format in DQ2 removes all data, reports and any references to the data having ever existed. The username of the person who deleted it and what they deleted will go in the Edit Status report.
- The option to delete a file format can be found under the File Processing menu item. Click on Survey Deletion, then select criteria and click SUBMIT.
- A historical list of delete requests for the selected year and survey for all formats sorted by Requested Date is displayed at the bottom of the screen.
- If a red X appears in the check box or the Request button is not available, this means the user does not have the authority to delete formats.
- The district SSO Administrator provides user access to the Delete role.
- To delete or correct a few records or a whole file that passed the edit process, a file with the Transaction code "D" or "C" can be submitted to DQ2.



DQ2 – Delete Requests Screen

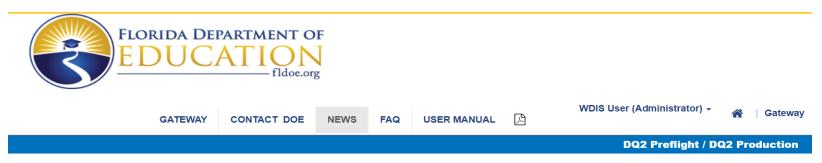
D	elete Files		<	Survey Deletion		o				
		District: -Select District V		hool Year: 2018-2019 ❤	5	ey Type: Soloct All- taff VD1S	0	iurvey: Select-	~	
				SUBMIT						
Se	lect All				New Jose					23.5
	Format	Compensation		FileCount	Reque	est Status		Reque	sted Date	
				1						
Staff Additional Job Assignments Staff Benefits			2							
Staff Demographic Information			2							
	Staff Experience	e		1						
	Staff Multidistri	ct Employee		2						
	Staff Payroll In	formation		1						
De	elete Files I	History		ELETE REQUES	ST					
			-		1				v	
				Select Format	t				~	

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DQ2 News

• The DQ2 News screen informs users which Surveys are available in DQ2 Preflight and Production.



DQ2 News

Welcome to the DQ2 News. The Florida Department of Education's electronic resource to provide data quality (DQ) information to the school districts on when surveys are available for pre-flight and production, what's new and what will be available in the near future.

Survey Calendar

The department conducts surveys of school district's student and staff information at scheduled survey times during the reporting year. A survey submission is a set of files supporting specific formats, submitted by the district, within a particular survey, of a specific database (student or staff), for a given year.

WDIS Available Surveys		K-12 Available Surveys	
Preflight - 22/23	WDIS Production - 22/23	Preflight - 22/23	Staff Production - 22/23
Survey F		Survey 1	
Survey G		Survey 2	
Survey W		Survey 3	
Survey X		Survey 6	
Survey S		Survey 8	



DQ2 – Frequently Asked Questions (FAQ)

 The FAQ tab allows users access to commonly asked questions.

FLORI	DA DEF	PARTMENT O	1					
G	GATEWAY	CONTACT DOE	NEWS	FAQ	USER MANUAL	ß	WDIS User (Administrator) 👻 🛛 👫 🔰 Gateway	
							DQ2 Preflight / DQ2 Production	
FAQ								
1) Does the DQ2 System	<u>n replace th</u>	ne current mainfram	<u>e survey p</u>	process?			*	
2)What is the file type a	and naming	convention for the	<u>survey file</u>	<u>s?</u>			~	
3) Are the file names ca	ise sensitiv	<u>e?</u>					~	
4) How do I submit Surv	4) How do I submit Survey files in DQ2?							
5) How do I view errors	5) How do I view errors on submitted files?							
<u>6) How do I delete a Sur</u>	<u>rvey File in</u>	DQ2?					~	
7) What is a "D" file?							~	



DQ2 – Privacy Policy



Family Educational Rights and Privacy Act (FERPA) – Protecting Sensitive Data

According to s501.171, Florida Statutes, "username or email address with password and/or security question/answer" is considered personally identifiable information (PII), even if it is not paired with an individual's first name (or first initial) and last name.

Examples of PII:

An individual's first name (or first initial) and last name in combination with any one or more of the following:

- Social Security Number
- Date of Birth
- Credit card number
- Medical history record
- Debit card number
- Driver's license number

- Identification card number
- Passport number
- Military identification
- Health insurance policy number and other identifier
- Security code

Do not email screenshots containing PII data

www.FLDOE.org



Contact Information



Questions about DQ2

For questions regarding SSO/TIBCO[®] contact SSO Team at <u>IENHELP@fldoe.org</u>.

For questions regarding STAFF or STUDENT Survey elements, edits or formats contact the EIS team at <u>ASKEIAS@fldoe.org</u>.

For questions regarding WDIS Survey elements, edits or formats contact the WEDS team at

WEDSTeam@fldoe.org.

For questions about file uploads or DQ2 Application contact the DQ2 team at **DQ2project@fldoe.org**.