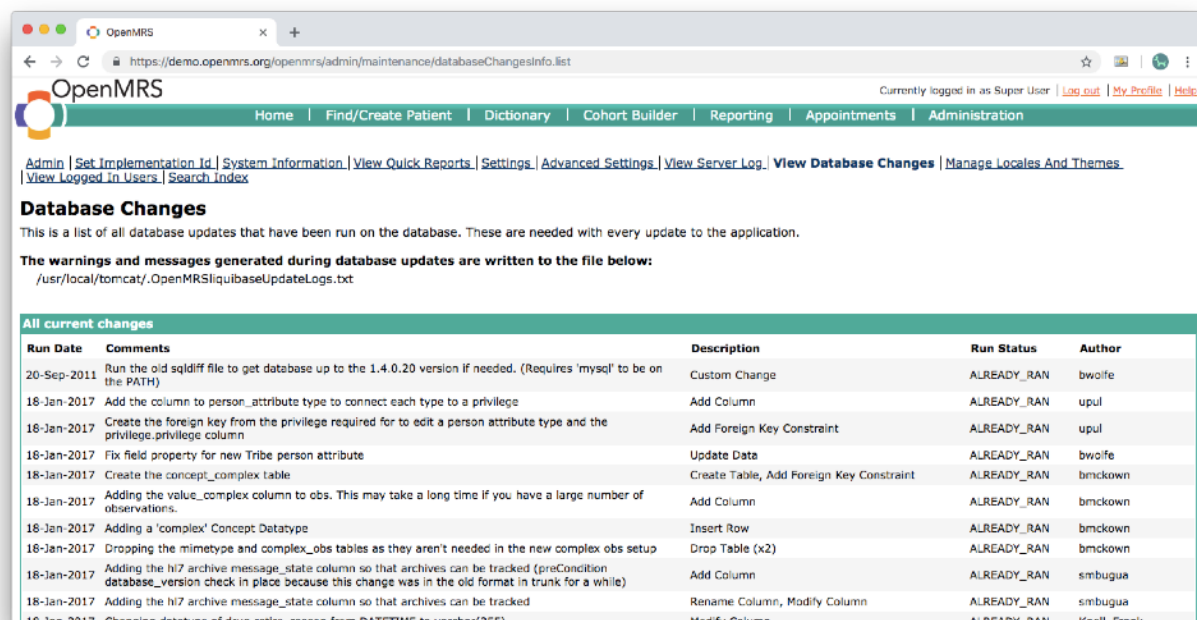


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## UI issues in OpenMRS Ref Application 2.8.0

<https://demo.openmrs.org/openmrs/admin/maintenance/databaseChangesInfo.list>

This is the *original component* for **Database Changes** which could be accessed through System Administration > Advanced Administration. Afterward, under Maintenance > View Database Changes.



The screenshot shows the 'Database Changes' page in the OpenMRS application. The page has a navigation bar with links like Home, Find/Create Patient, Dictionary, Cohort Builder, Reporting, Appointments, and Administration. Below the navigation bar, there's a section titled 'Database Changes' with a description: 'This is a list of all database updates that have been run on the database. These are needed with every update to the application.' It also mentions that warnings and messages generated during database updates are written to a file. The main content is a table titled 'All current changes' with the following data:

Run Date	Comments	Description	Run Status	Author
20-Sep-2011	Run the old sqldiff file to get database up to the 1.4.0.20 version if needed. (Requires 'mysql' to be on the PATH)	Custom Change	ALREADY_RAN	bwoife
18-Jan-2017	Add the column to person_attribute type to connect each type to a privilege	Add Column	ALREADY_RAN	upul
18-Jan-2017	Create the foreign key from the privilege required for to edit a person attribute type and the privilege.privilege column	Add Foreign Key Constraint	ALREADY_RAN	upul
18-Jan-2017	Fix field property for new Tribe person attribute	Update Data	ALREADY_RAN	bwoife
18-Jan-2017	Create the concept_complex table	Create Table, Add Foreign Key Constraint	ALREADY_RAN	bmckown
18-Jan-2017	Adding the value_complex column to obs. This may take a long time if you have a large number of observations.	Add Column	ALREADY_RAN	bmckown
18-Jan-2017	Adding a 'complex' Concept Datatype	Insert Row	ALREADY_RAN	bmckown
18-Jan-2017	Dropping the mimetype and complex_obs tables as they aren't needed in the new complex obs setup	Drop Table (x2)	ALREADY_RAN	bmckown
18-Jan-2017	Adding the h17 archive message_state column so that archives can be tracked (preCondition database_version check in place because this change was in the old format in trunk for a while)	Add Column	ALREADY_RAN	smbugua
18-Jan-2017	Adding the h17 archive message_state column so that archives can be tracked	Rename Column, Modify Column	ALREADY_RAN	smbugua
18-Jan-2017	Changing datatype of drug_order_reason from DATETIME to varchar(255)	Modify Column	ALREADY_RAN	Knox, Frank

[Figure 1.1]

Current UI which could be found in the OpenMRS Ref App Demo

However, there are some issues that I feel with how it looks, which will in turn affect the component's functionality.

First of all, I feel that it would be necessary to be able to easily locate the most recent database changes. In this design, you would have to scroll down so much entries, before reaching the most recent ones.

This leads me to my second adjustment. I think it would be more beneficial to be able to see the most recent results, rather than in chronological order. Latest changes in the database would more easier to see if it were arranged in a reverse-chronological setting.

Run Date	Comments	Description	Run Status	Author
03-Nov-2018	Generating outputs for all rows in cohort_member table via bulk insert function.	Update Data	INVALID_RUNSTATUS	vs Shankar
03-Nov-2018	Adding unique constraint to cohort_member.uid	Add Unique Constraint	ALREADY_RAN	vs Shankar
03-Nov-2018	Adding foreign key constraint to cohort_member.cohort_id	Add Foreign Key Constraint	ALREADY_RAN	vs Shankar
03-Nov-2018	Adding foreign key constraint to cohort_member.patient_id	Add Foreign Key Constraint	ALREADY_RAN	vs Shankar
03-Nov-2018	Dropping default value for cohort_member.cohort_id	Drop Default Value	ALREADY_RAN	vs Shankar
03-Nov-2018	Dropping default value for cohort_member.patient_id	Drop Default Value	ALREADY_RAN	vs Shankar
03-Nov-2018	Adding "date_changed" column to concept_class table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to concept_class table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to concept_reference_source table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to concept_reference_source table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to concept_name table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to concept_name table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to concept_name_tag table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to concept_name_tag table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to form_resource table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to form_resource table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to global_property table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to global_property table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to patient_identifier_type table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to patient_identifier_type table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to relationship_type table	Add Column	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "changed_by" column to relationship_type table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "status" column to obs table	Add Column	ALREADY_RAN	darius
03-Nov-2018	Adding "interpretation" column to obs table	Add Column	ALREADY_RAN	darius
03-Nov-2018	Modify column length to 1000 from 255	Modify data type	ALREADY_RAN	Shruthi,Salaudinn

[Figure 1.2]  
Scrolling through database entries in the current UI

Afterward, then, scrolling to an older database change may become cumbersome. As such, I think it would be necessary to be able search for a specific database modification / entry.

**OpenMRS** Currently logged in as Super User | [Log out](#) | [My Profile](#) | [Help](#)

[Home](#) | [Find/Create Patient](#) | [Dictionary](#) | [Cohort Builder](#) | [Reporting](#) | [Appointments](#) | [Administration](#)

[Admin](#) | [Set Implementation Id](#) | [System Information](#) | [View Quick Reports](#) | [Settings](#) | [Advanced Settings](#) | [View Server Log](#) | [View Database Changes](#) | [Manage Locales And Themes](#) | [View Logged In Users](#) | [Search Index](#)

### Database Changes

**Recent Changes** Show up to 5 items, 10 items, 20 items, 50 items

Run Date	Comments	Description	Run Status	Author
03-Nov-2018	Modify column	Modify Data Type	ALREADY_RAN	Shruthi,Salaudinn
03-Nov-2018	Adding "interp	Add Column	ALREADY_RAN	darius
03-Nov-2018	Adding "status" column to relationship_type table	Add Column	ALREADY_RAN	darius
03-Nov-2018	Adding "changed_by" column to relationship_type table	Add Column, Add Foreign Key Constraint	ALREADY_RAN	manuelagrindel
03-Nov-2018	Adding "date_changed" column to relationship_type table	Add Column	ALREADY_RAN	manuelagrindel

**Find Changes**

Find a database change by its run date, comments, description, run status, or author:

Run Date	Comments	Description	Run Status	Author
No matches		Modify Data Type		

[Figure 1.3]  
My proposed design in response to UI issues

As seen in the previous page, my proposed design would have a feature wherein you could select the amount of database modifications / entries to reduce the scrolling. Moreover, if the user wants to view more, they could easily select 10, 20, or even 50 items, and review changes.

My second proposal is that there is a search function such that by typing the run date, comment, author, etc., the user will be able to find previous changes instead of scrolling down.

Through these modifications in the UI, I hope that it would be easier to view database changes.