

## Ecommerce Database Crash Recovery Documentation

Crash recovery is an important aspect of the database. We must restore the database to a previous version in case of data integrity compromise. There are several ways to implement a crash recovery system, one of which was adopted to fit the business model of our database.

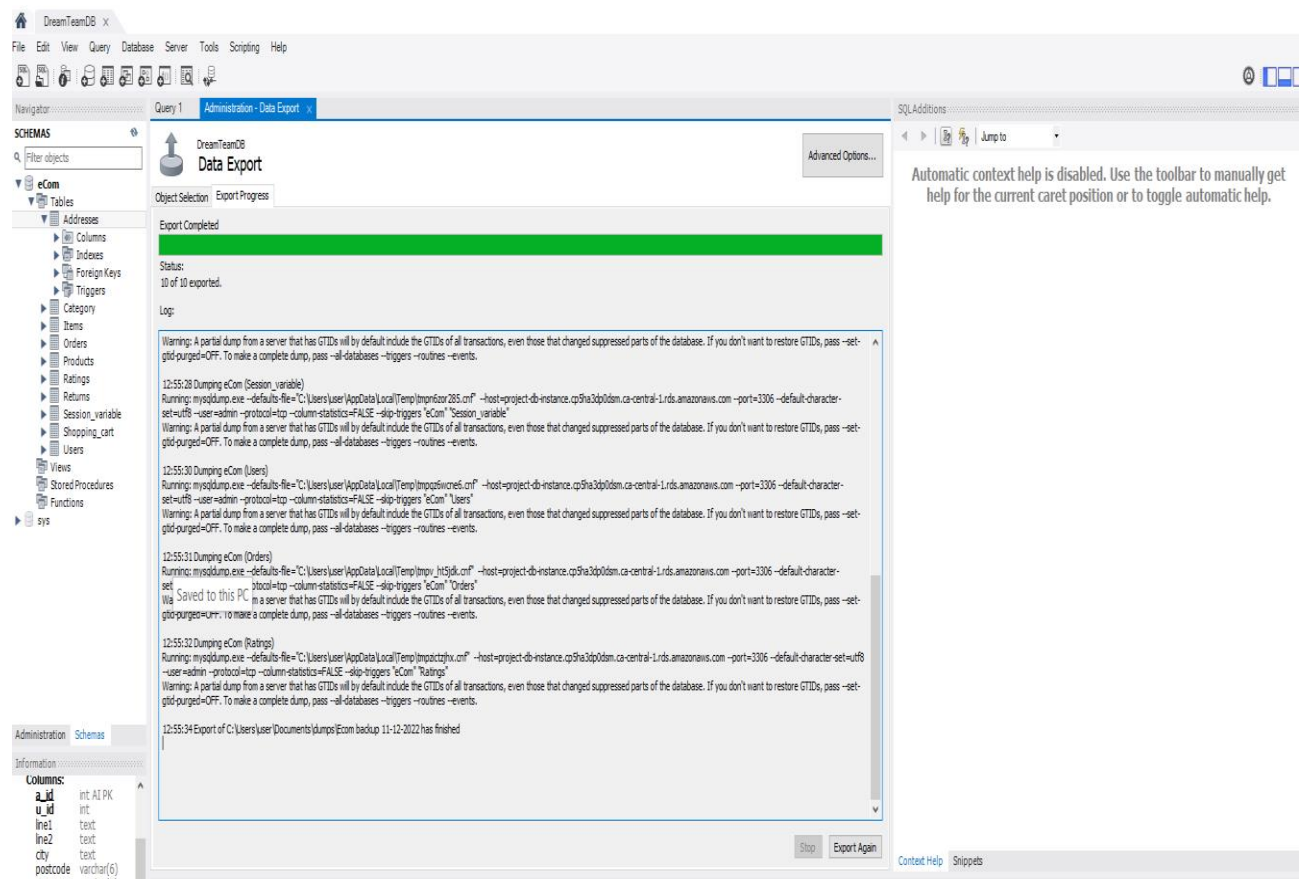
MySQL workbench has the feature to import all instances of a database to a local server at regular intervals. This tool was used to schedule the automatic export of the Ecomm database current state at the end of each business day. In a scenario where there is data corruption we have the capacity to roll back the database to a previous state depending on how far the corruption spreads.

This MySQL feature has been implemented on the Ecomm database and here are sample images of one of the timed backups taking place.

### Image of a single export of Ecomm DB:

This image simulates a timed export of the Ecomm DB being saved to a local host via the MySQL database management tool. This way there are backups created for each day.

**Img 1.1.**



This image simulates the process of restoring one of the backup dumps for the previous day. You can see all the tables in the Ecomm website is referenced in this.

### Image of backup being imported to server.

**DreamTeamDB Data Import**

Import from Disk | Import Progress

**Import Options**

☒ Import from Dump Project Folder  ...

Select the Dump Project Folder to import. You can do a selective restore.

☐ Import from Self-Contained File  ...

Select the SQL/dump file to import. Please note that the whole file will be imported.

**Default Schema to be Imported To**

Default Target Schema:   The default schema to import the dump into.  
NOTE: this is only used if the dump file doesn't contain its schema, otherwise it is ignored.

**Select Database Objects to Import (only available for Project Folders)**

Imp...	Schema
<input checked="" type="checkbox"/>	eCom

10 tables selected

Imp...	Schema Objects
<input checked="" type="checkbox"/>	Addresses
<input checked="" type="checkbox"/>	Category
<input checked="" type="checkbox"/>	Items
<input checked="" type="checkbox"/>	Orders
<input checked="" type="checkbox"/>	Products
<input checked="" type="checkbox"/>	Ratings
<input checked="" type="checkbox"/>	Returns
<input checked="" type="checkbox"/>	Session_variable
<input checked="" type="checkbox"/>	Shopping_cart
<input checked="" type="checkbox"/>	Users

Press [Start Import] to start...