

# Database linking tables (relationships)

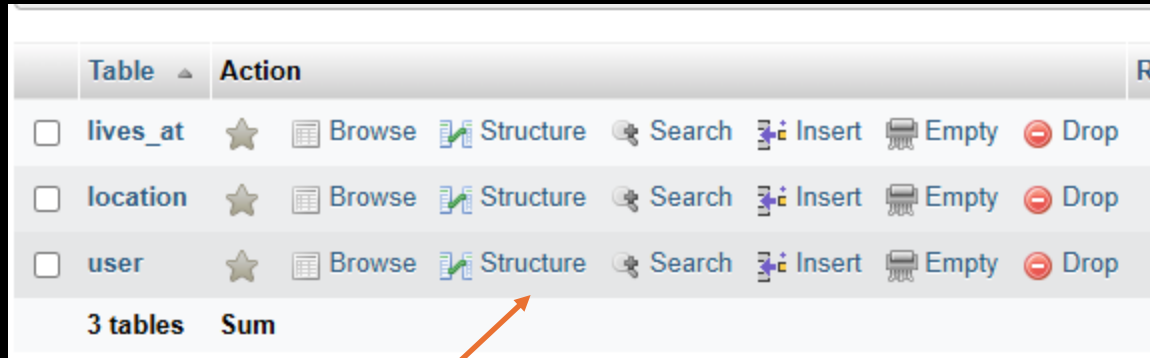
Guide 05

# Important to link tables

- Important to link the data together to "enforce referential integrity"
- This means data has to exist in both tables and makes it better and more valid data and stops redundancy

# Index the foreign key columns














- For each column you want to link, you HAVE to index the column













- Click "structure" on each table, with a column you want to link.
- If its already a primary key, you don't need to do this

# On each column

- Check the tick box

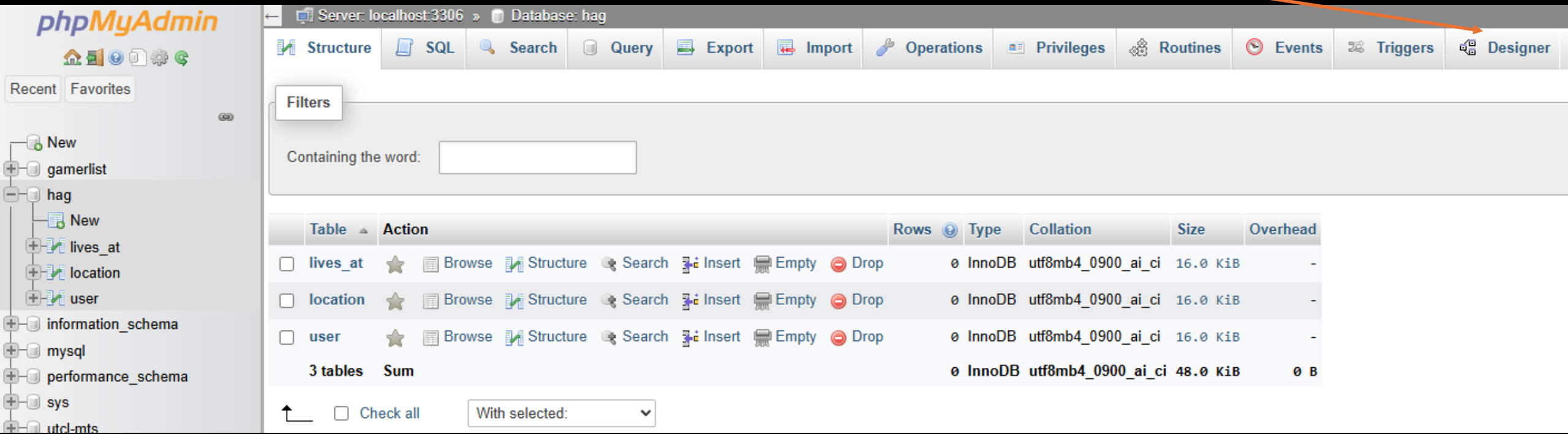
	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	lives_id 	int			No	None		AUTO_INCREMENT	 Change  Drop  More
<input checked="" type="checkbox"/>	2	user_id	int			No	None			 Change  Drop  More
<input checked="" type="checkbox"/>	3	location_id	int			No	None			 Change  Drop  More
<input type="checkbox"/>	4	from_date	int			No	None			 Change  Drop  More

  Check all *With selected:*  Browse  Change  Drop  Primary  Unique  Index  Spatial  Fulltext

- Click index

# Access the designer

- Access designer to link the tables



phpMyAdmin

Server: localhost:3306 » Database: hag

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers **Designer**

Filters

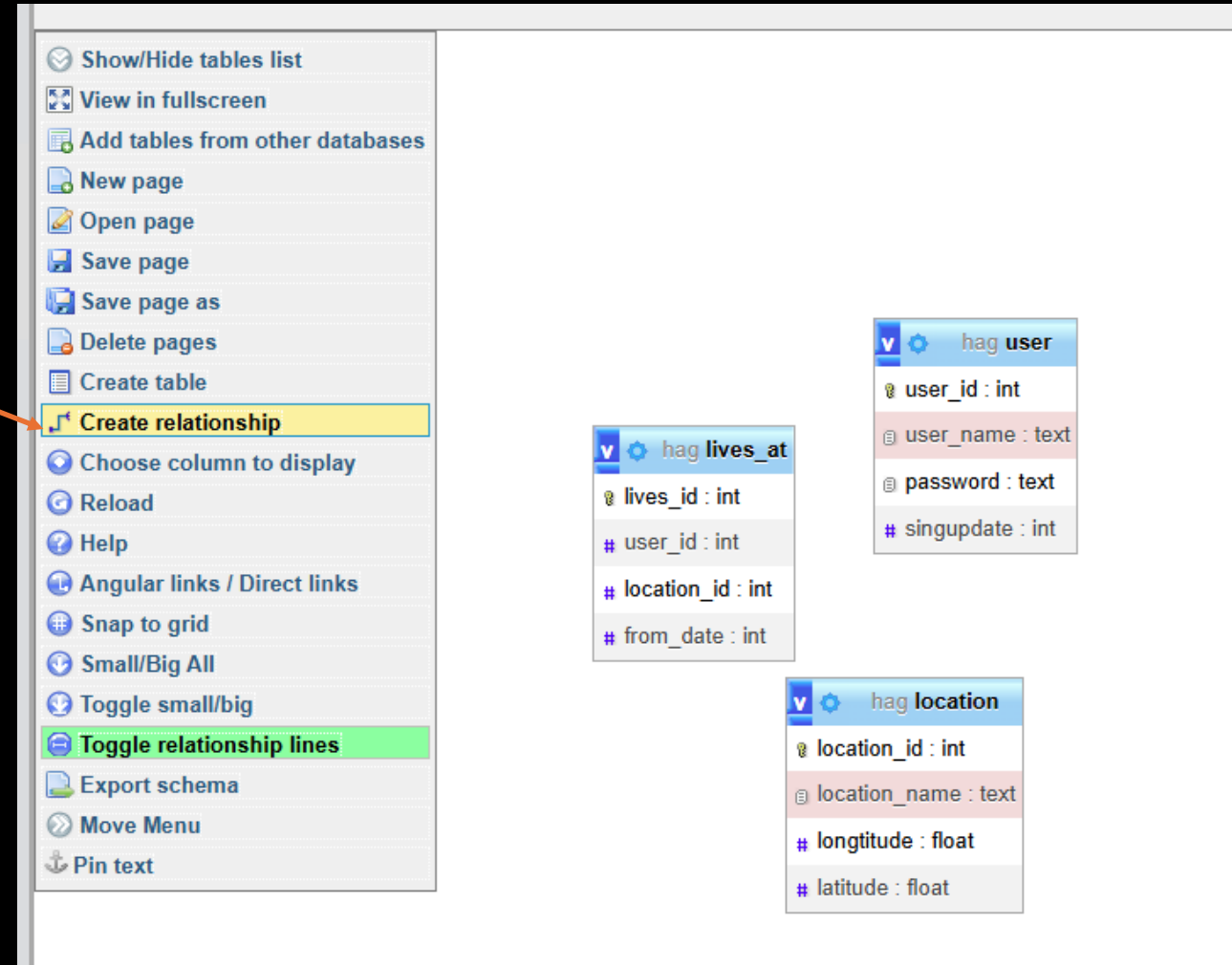
Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> lives_at	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> location	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> user	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
3 tables	Sum	0	InnoDB	utf8mb4_0900_ai_ci	48.0 KiB	0 B

↑ ☐ Check all With selected: ▼

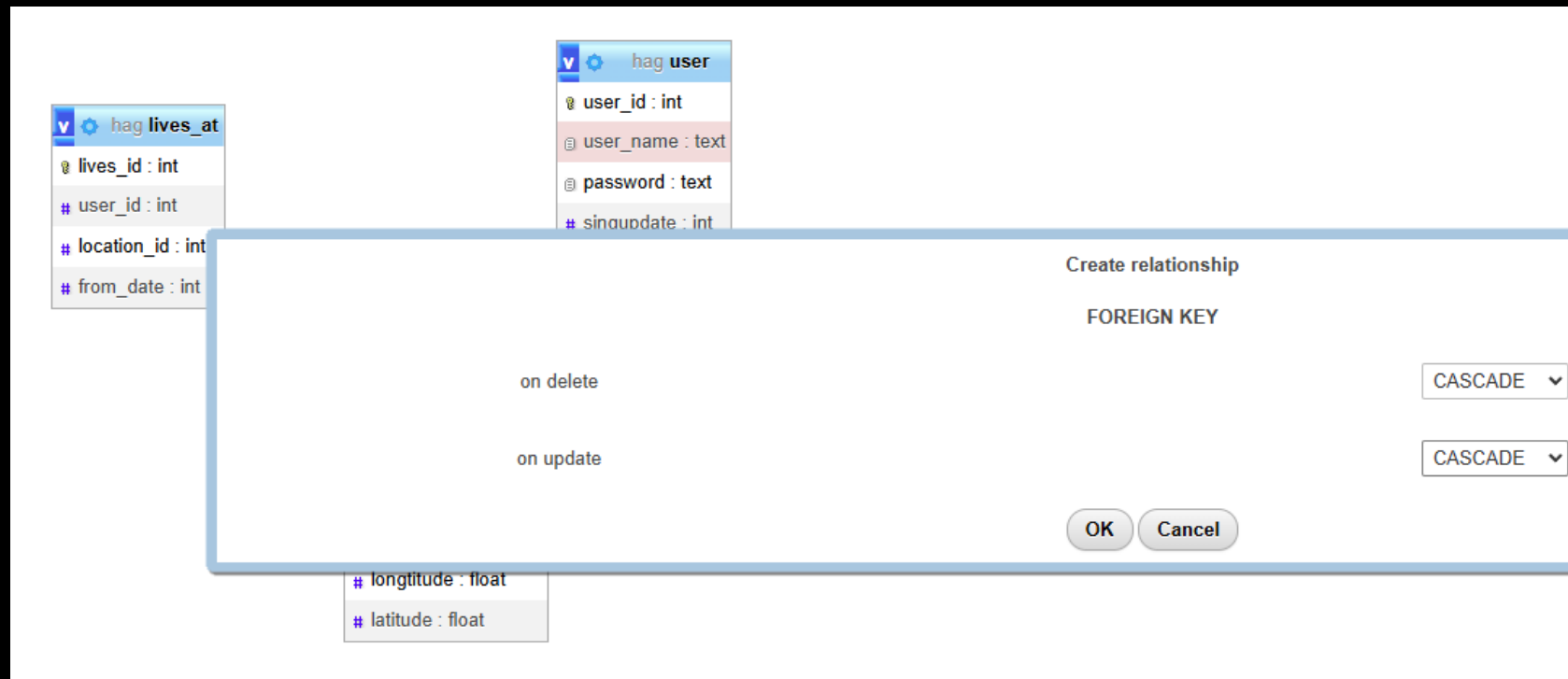
# Establish the links

- Arrange the tables as you want
- Click "Create relationship"



# Click the columns you want to link

- Click on each of the 2 cols to link, and this box appears:



- Choose "cascase" on each drop down (important to choose this)

# If you get an error...

- Then either: You havent indexed the columns OR they are not the correct data types (int / text etc, they have to match to build the relationship)



# Repeat

- This process for each relationship in your database

