# OLMS Database Creation Queries

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) users

(

email VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL PRIMARY KEY,

username VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL UNIQUE,

[password](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/encryption-functions.html%23function_password) VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) libraries

(

library\_id INT AUTO\_INCREMENT PRIMARY KEY,

lname VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

numofbooks INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

owner\_email VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

FOREIGN KEY (owner\_email) REFERENCES users(email)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) books

(

book\_id INT AUTO\_INCREMENT PRIMARY KEY,

bname VARCHAR(500) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

numofchaprd INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

numofchaptl INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

synopsis VARCHAR(65000) [DEFAULT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_default) NULL,

owner\_email VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

FOREIGN KEY (owner\_email) REFERENCES users(email)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) genres

(

genre\_id INT AUTO\_INCREMENT PRIMARY KEY,

gname VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL UNIQUE,

owner\_email VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

FOREIGN KEY (owner\_email) REFERENCES users(email)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) authors

(

author\_id INT AUTO\_INCREMENT PRIMARY KEY,

aname VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

owner\_email VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

FOREIGN KEY (owner\_email) REFERENCES users(email)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) tags

(

tag\_id INT AUTO\_INCREMENT PRIMARY KEY,

tname VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL UNIQUE,

owner\_email VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

FOREIGN KEY (owner\_email) REFERENCES users(email)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) books\_urls

(

book\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

url VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL UNIQUE,

owner\_email VARCHAR(255) [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

PRIMARY KEY (book\_id, url),

FOREIGN KEY (book\_id) REFERENCES books(book\_id),

FOREIGN KEY (owner\_email) REFERENCES users(email)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) books\_authors

(

book\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

author\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

PRIMARY KEY (book\_id, author\_id),

FOREIGN KEY (book\_id) REFERENCES books(book\_id),

FOREIGN KEY (author\_id) REFERENCES authors(author\_id)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) books\_tags

(

book\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

tag\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

PRIMARY KEY (book\_id, tag\_id),

FOREIGN KEY (book\_id) REFERENCES books(book\_id),

FOREIGN KEY (tag\_id) REFERENCES tags(tag\_id)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) books\_libraries

(

book\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

library\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

PRIMARY KEY (book\_id, library\_id),

FOREIGN KEY (book\_id) REFERENCES books(book\_id),

FOREIGN KEY (library\_id) REFERENCES libraries(library\_id)

);

[CREATE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) books\_genres

(

book\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

genre\_id INT [NOT](http://localhost:7080/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL,

PRIMARY KEY (book\_id, genre\_id),

FOREIGN KEY (book\_id) REFERENCES books(book\_id),

FOREIGN KEY (genre\_id) REFERENCES genres(genre\_id)

);