



Σχολή Ηλεκτρολόγων Μηχανικών & Μηχανικών  
Η/Υ

Εξαμηνιαία Εργασία Βάσεων Δεδομένων:  
"Σχολική Βιβλιοθήκη στα Δημόσια Σχολεία"

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## Περίληψη

Το παρόν είναι το παραδοτέο της Εξαμηνιαίας Εργασίας στο πλαίσιο του μαθήματος "Βάσεις Δεδομένων" του 6ου Εξαμήνου της Σχολής Ηλεκτρολόγων Μηχανικών & Μηχανικών Η/Υ του Εθνικού Μετσοβίου Πολυτεχνείου.

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Κεφάλαιο 1

Παραδοτέο

## 1.1 ER & Σχεσιακό διάγραμμα της Βάσης Δεδομένων

Το ER Διάγραμμα φαίνεται στο Σχήμα 1.1 και το Σχεσιακό Διάγραμμα φαίνεται στο Σχήμα 1.2

### Εξηγήσεις

#### Role\_id:

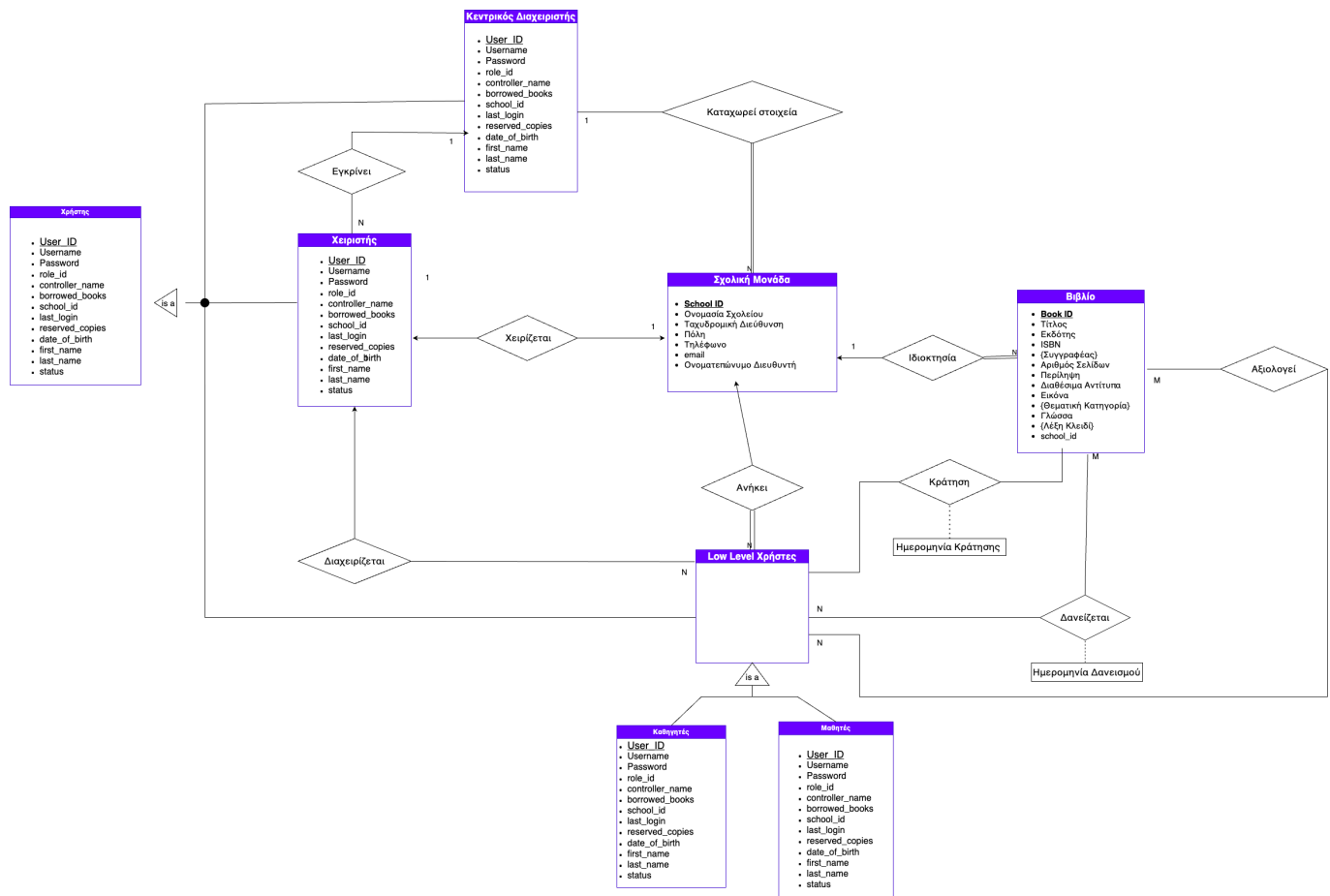
- 1: Administrator
- 2: Controller (of School Unit)
- 3: Teacher
- 4: Student

#### Books

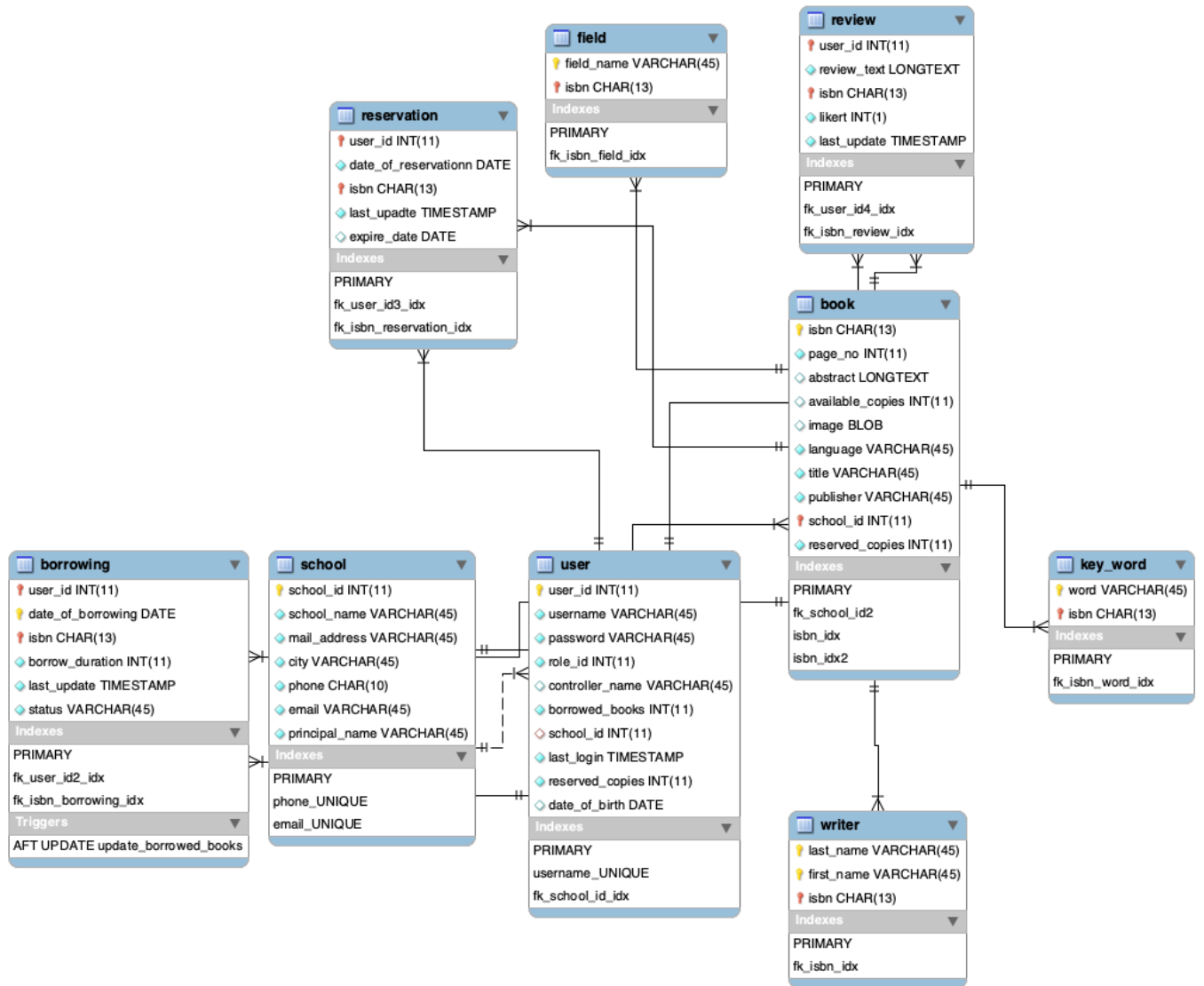
Κάθε βιβλίο με ίδιο ISBN αλλά διαφορετικό school\_id θεωρείται ως ξεχωριστή οντότητα.

#### Borrowing:

Κάθε δανεισμός με ίδιο user\_id, isbn αλλά διαφορετική ημερομηνία θεωρείται διαφορετική οντότητα.



Σχήμα 1.1: Entity-Relation Diagram (ER)



Σχήμα 1.2: Relational Diagram

## 1.2 DDL & DML scripts

Listing 1.1: library\_schem.sql

```
1  — phpMyAdmin SQL Dump
2  — version 5.2.0
3  — https://www.phpmyadmin.net/
4  —
5  — Host: localhost:8889
6  — Generation Time: Jun 03, 2023 at 03:08 PM
7  — Server version: 5.7.39
8  — PHP Version: 8.2.0
9
10 SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
11 START TRANSACTION;
12 SET time_zone = "+00:00";
13
14
15 /*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
16 /*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
17 /*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
18 /*!40101 SET NAMES utf8mb4 */;
19
20 —
21 — Database: 'library'
22 —
23
24 — _____
25
26 —
27 — Table structure for table 'book'
28 —
29
30 CREATE TABLE 'book' (
31   'isbn' char(13) NOT NULL,
32   'page_no' int(11) NOT NULL COMMENT 'Range_1_to_5000',
33   'abstract' longtext,
34   'available_copies' int(11) DEFAULT NULL,
35   'image' blob,
36   'language' varchar(45) NOT NULL,
37   'title' varchar(45) NOT NULL,
38   'publisher' varchar(45) NOT NULL,
39   'school_id' int(11) NOT NULL,
40   'reserved_copies' int(11) NOT NULL DEFAULT '0'
41 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
42
43 — _____
44
45 —
```



```

46  — Table structure for table `borrowing`
47  —
48
49  CREATE TABLE `borrowing` (
50    `user_id` int(11) NOT NULL,
51    `date_of_borrowing` date NOT NULL,
52    `isbn` char(13) NOT NULL,
53    `borrow_duration` int(11) NOT NULL,
54    `last_update` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
55    ON UPDATE CURRENT_TIMESTAMP,
56    `status` varchar(45) NOT NULL DEFAULT 'active',
57    `activation` varchar(45) NOT NULL DEFAULT 'disabled'
58  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
59
60  —
61  — Triggers `borrowing`
62  —
63  DELIMITER $$
64  CREATE TRIGGER `update_borrowed_books`
65  AFTER UPDATE ON `borrowing` FOR EACH ROW BEGIN
66  UPDATE user
67  SET borrowed_books = (SELECT COUNT(*) FROM borrowing
68  WHERE user_id = NEW.user_id)
69  WHERE user_id = NEW.user_id;
70  END
71  $$
72  DELIMITER ;
73
74  —
75
76  —
77  — Table structure for table `field`
78  —
79
80  CREATE TABLE `field` (
81    `field_name` varchar(45) NOT NULL,
82    `isbn` char(13) NOT NULL
83  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
84
85  —
86
87  —
88  — Table structure for table `key_word`
89  —
90
91  CREATE TABLE `key_word` (
92    `word` varchar(45) NOT NULL,
93    `isbn` char(13) NOT NULL
94  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

```

```

95 |
96 |-----
97 |
98 |-----
99 | Table structure for table 'reservation'
100 |-----
101 |
102 | CREATE TABLE 'reservation' (
103 | 'user_id' int(11) NOT NULL,
104 | 'date_of_reservation' date NOT NULL,
105 | 'isbn' char(13) NOT NULL,
106 | 'last_update' timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
107 | ON UPDATE CURRENT_TIMESTAMP,
108 | 'expire_date' date DEFAULT NULL,
109 | 'activation' varchar(45) NOT NULL DEFAULT 'disabled'
110 | ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
111 |
112 |-----
113 |
114 |-----
115 | Table structure for table 'review'
116 |-----
117 |
118 | CREATE TABLE 'review' (
119 | 'user_id' int(11) NOT NULL,
120 | 'review_text' longtext NOT NULL,
121 | 'isbn' char(13) NOT NULL,
122 | 'likert' int(1) NOT NULL,
123 | 'last_update' timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
124 | ON UPDATE CURRENT_TIMESTAMP
125 | ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
126 |
127 |-----
128 |
129 |-----
130 | Table structure for table 'school'
131 |-----
132 |
133 | CREATE TABLE 'school' (
134 | 'school_id' int(11) NOT NULL,
135 | 'school_name' varchar(45) NOT NULL,
136 | 'mail_address' varchar(45) NOT NULL,
137 | 'city' varchar(45) NOT NULL,
138 | 'phone' char(10) NOT NULL,
139 | 'email' varchar(45) NOT NULL,
140 | 'principal_name' varchar(45) NOT NULL
141 | ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
142 |
143 |-----

```

```

144 |
145 | —
146 | — Table structure for table ‘user‘
147 | —
148 |
149 | CREATE TABLE ‘user‘ (
150 | ‘user_id‘ int(11) NOT NULL,
151 | ‘username‘ varchar(45) NOT NULL,
152 | ‘password‘ varchar(45) NOT NULL,
153 | ‘role_id‘ int(11) NOT NULL,
154 | ‘controller_name‘ varchar(45) DEFAULT NULL,
155 | ‘borrowed_books‘ int(11) NOT NULL DEFAULT ‘0’,
156 | ‘school_id‘ int(11) DEFAULT NULL,
157 | ‘last_login‘ timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
158 | ON UPDATE CURRENT_TIMESTAMP,
159 | ‘reserved_copies‘ int(11) NOT NULL DEFAULT ‘0’,
160 | ‘date_of_birth‘ date DEFAULT NULL,
161 | ‘first_name‘ varchar(45) DEFAULT NULL,
162 | ‘last_name‘ varchar(45) DEFAULT NULL,
163 | ‘status‘ varchar(45) NOT NULL DEFAULT ‘disabled’
164 | ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
165 |
166 | —
167 |
168 | —
169 | — Table structure for table ‘writer‘
170 | —
171 |
172 | CREATE TABLE ‘writer‘ (
173 | ‘last_name‘ varchar(45) NOT NULL,
174 | ‘first_name‘ varchar(45) NOT NULL,
175 | ‘isbn‘ char(13) NOT NULL
176 | ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
177 |
178 | —
179 | — Indexes for dumped tables
180 | —
181 |
182 | —
183 | — Indexes for table ‘book‘
184 | —
185 | ALTER TABLE ‘book‘
186 | ADD PRIMARY KEY (‘isbn‘, ‘school_id‘),
187 | ADD KEY ‘fk_school_id2‘ (‘school_id‘),
188 | ADD KEY ‘isbn_idx‘ (‘isbn‘),
189 | ADD KEY ‘isbn_idx2‘ (‘isbn‘);
190 |
191 | —
192 | — Indexes for table ‘borrowing‘

```

```

193 —
194 ALTER TABLE `borrowing`
195 ADD PRIMARY KEY (`user_id`,`isbn`,`date_of_borrowing`),
196 ADD KEY `fk_user_id2_idx` (`user_id`),
197 ADD KEY `fk_isbn_borrowing_idx` (`isbn`);
198
199 —
200 — Indexes for table `field`
201 —
202 ALTER TABLE `field`
203 ADD PRIMARY KEY (`field_name`,`isbn`),
204 ADD KEY `fk_isbn_field_idx` (`isbn`);
205
206 —
207 — Indexes for table `key_word`
208 —
209 ALTER TABLE `key_word`
210 ADD PRIMARY KEY (`word`,`isbn`),
211 ADD KEY `fk_isbn_word_idx` (`isbn`);
212
213 —
214 — Indexes for table `reservation`
215 —
216 ALTER TABLE `reservation`
217 ADD PRIMARY KEY (`user_id`,`isbn`),
218 ADD KEY `fk_user_id3_idx` (`user_id`),
219 ADD KEY `fk_isbn_reservation_idx` (`isbn`);
220
221 —
222 — Indexes for table `review`
223 —
224 ALTER TABLE `review`
225 ADD PRIMARY KEY (`user_id`,`isbn`),
226 ADD KEY `fk_user_id4_idx` (`user_id`),
227 ADD KEY `fk_isbn_review_idx` (`isbn`);
228
229 —
230 — Indexes for table `school`
231 —
232 ALTER TABLE `school`
233 ADD PRIMARY KEY (`school_id`),
234 ADD UNIQUE KEY `phone_UNIQUE` (`phone`),
235 ADD UNIQUE KEY `email_UNIQUE` (`email`);
236
237 —
238 — Indexes for table `user`
239 —
240 ALTER TABLE `user`
241 ADD PRIMARY KEY (`user_id`),

```

```

242 ADD UNIQUE KEY 'username_UNIQUE' ('username'),
243 ADD KEY 'fk_school_id_idx' ('school_id');
244
245 —
246 — Indexes for table 'writer'
247 —
248 ALTER TABLE 'writer'
249 ADD PRIMARY KEY ('first_name', 'last_name', 'isbn'),
250 ADD KEY 'fk_isbn_idx' ('isbn');
251
252 —
253 — AUTO_INCREMENT for dumped tables
254 —
255 —
256 —
257 — AUTO_INCREMENT for table 'school'
258 —
259 ALTER TABLE 'school'
260 MODIFY 'school_id' int(11) NOT NULL AUTO_INCREMENT;
261
262 —
263 — AUTO_INCREMENT for table 'user'
264 —
265 ALTER TABLE 'user'
266 MODIFY 'user_id' int(11) NOT NULL AUTO_INCREMENT;
267
268 —
269 — Constraints for dumped tables
270 —
271 —
272 —
273 — Constraints for table 'book'
274 —
275 ALTER TABLE 'book'
276 ADD CONSTRAINT 'fk_school_id2' FOREIGN KEY ('school_id')
277 REFERENCES 'school' ('school_id');
278
279 —
280 — Constraints for table 'borrowing'
281 —
282 ALTER TABLE 'borrowing'
283 ADD CONSTRAINT 'fk_isbn_borrowing' FOREIGN KEY ('isbn')
284 REFERENCES 'book' ('isbn') ON DELETE NO ACTION ON UPDATE NO ACTION,
285 ADD CONSTRAINT 'fk_user_id2' FOREIGN KEY ('user_id')
286 REFERENCES 'user' ('user_id') ON DELETE NO ACTION ON UPDATE NO ACTION;
287
288 —
289 — Constraints for table 'field'
290 —

```

```

291 ALTER TABLE 'field '
292 ADD CONSTRAINT 'fk_isbn_field' FOREIGN KEY ('isbn')
293 REFERENCES 'book' ('isbn') ON DELETE NO ACTION ON UPDATE NO ACTION;
294
295 —
296 — Constraints for table 'key_word'
297 —
298 ALTER TABLE 'key_word'
299 ADD CONSTRAINT 'fk_isbn_word' FOREIGN KEY ('isbn')
300 REFERENCES 'book' ('isbn') ON DELETE NO ACTION ON UPDATE NO ACTION;
301
302 —
303 — Constraints for table 'reservation'
304 —
305 ALTER TABLE 'reservation'
306 ADD CONSTRAINT 'fk_isbn_reservation' FOREIGN KEY ('isbn')
307 REFERENCES 'book' ('isbn') ON DELETE NO ACTION ON UPDATE NO ACTION,
308 ADD CONSTRAINT 'fk_user_reservation' FOREIGN KEY ('user_id')
309 REFERENCES 'user' ('user_id') ON DELETE NO ACTION ON UPDATE NO ACTION;
310
311 —
312 — Constraints for table 'review'
313 —
314 ALTER TABLE 'review'
315 ADD CONSTRAINT 'fk_isbn_review' FOREIGN KEY ('isbn')
316 REFERENCES 'book' ('isbn') ON DELETE NO ACTION ON UPDATE NO ACTION,
317 ADD CONSTRAINT 'fk_user_review' FOREIGN KEY ('user_id')
318 REFERENCES 'user' ('user_id') ON DELETE NO ACTION ON UPDATE NO ACTION;
319
320 —
321 — Constraints for table 'user'
322 —
323 ALTER TABLE 'user'
324 ADD CONSTRAINT 'fk_school_id' FOREIGN KEY ('school_id')
325 REFERENCES 'school' ('school_id') ON DELETE NO ACTION ON UPDATE NO
326 ACTION;
327
328 —
329 — Constraints for table 'writer'
330 —
331 ALTER TABLE 'writer'
332 ADD CONSTRAINT 'fk_isbn_writer' FOREIGN KEY ('isbn')
333 REFERENCES 'book' ('isbn') ON DELETE NO ACTION ON UPDATE NO ACTION;
334 COMMIT;
335
336 /*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
337 /*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
338 /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

```

## Listing 1.2: library\_insert\_data.sql

```

1  — phpMyAdmin SQL Dump
2  — version 5.2.0
3  — https://www.phpmyadmin.net/
4  —
5  — Host: localhost:8889
6  — Generation Time: Jun 03, 2023 at 03:09 PM
7  — Server version: 5.7.39
8  — PHP Version: 8.2.0
9
10 SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
11 START TRANSACTION;
12 SET time_zone = "+00:00";
13
14
15 /*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
16 /*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
17 /*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
18 /*!40101 SET NAMES utf8mb4 */;
19
20 —
21 — Database: 'library'
22 —
23 —
24 —
25 — Dumping data for table 'book'
26 —
27
28 INSERT INTO `book` (`isbn`, `page_no`, `abstract`, `available_copies`
29 , `image`, `language`, `title`, `publisher`, `school_id`,
30 `reserved_copies`)
31 VALUES
32 ('8781236784503', 542, 'An_exhilarating_adventure', 7,
33 NULL, 'English', 'The_Lost_Island', 'HarperCollins', 1, 0),
34 ('8781236784503', 542, 'An_exhilarating_adventure', 7,
35 NULL, 'English', 'The_Lost_Island', 'HarperCollins', 2, 7),
36 ('8781236784504', 289, 'A_mysterious_journey_awaits', 6,
37 NULL, 'English', 'Silent_Witness', 'Simon_&_Schuster', 2, 0),
38 ('8781236784504', 289, 'A_mysterious_journey_awaits', 8,
39 NULL, 'English', 'Silent_Witness', 'Simon_&_Schuster', 3, 1),
40 ('8781236784505', 405, 'A_tale_of_love_and_passion', 1,
41 NULL, 'English', 'Love_in_the_Air', 'Riverhead_Books', 1, 0),
42 ('8781236784505', 405, 'A_tale_of_love_and_passion', 9,
43 NULL, 'English', 'Love_in_the_Air', 'Riverhead_Books', 3, 0),
44 ('8781236784506', 176, 'A_gripping_and_thrilling_suspense', 7,
45 NULL, 'English', 'Dark_Secrets', 'Picador', 1, 4),
46 ('8781236784506', 176, 'A_gripping_and_thrilling_suspense', 11,
47 NULL, 'English', 'Dark_Secrets', 'Picador', 2, 0),
48 ('8781236784507', 512, 'An_epic_historical_saga', 5,

```

49 NULL, 'English', 'The\_Odyssey', 'Penguin\_Classics', 2, 0),  
 50 ('8781236784507', 512, 'An\_epic\_historical\_saga', 6,  
 51 NULL, 'English', 'The\_Odyssey', 'Penguin\_Classics', 3, 0),  
 52 ('8781236784508', 418, 'Enter\_a\_magical\_realm\_of\_fantasy', 5,  
 53 NULL, 'English', 'The\_Chronicles\_of\_Narnia', 'HarperCollins', 1, 0),  
 54 ('8781236784508', 418, 'Enter\_a\_magical\_realm\_of\_fantasy', 8,  
 55 NULL, 'English', 'The\_Chronicles\_of\_Narnia', 'HarperCollins', 2, 0),  
 56 ('8781236784509', 328, 'Classic\_literature\_that\_captivates', 8,  
 57 NULL, 'English', 'Pride\_and\_Prejudice', 'Penguin\_Classics', 1, 0),  
 58 ('8781236784509', 328, 'Classic\_literature\_that\_captivates', 12,  
 59 NULL, 'English', 'Pride\_and\_Prejudice', 'Penguin\_Classics', 3, 0),  
 60 ('8781236784510', 214, 'Una\_emocionante\_aventura', 6,  
 61 NULL, 'Spanish', 'La\_Isla\_Perdida', 'HarperCollins', 2, 0),  
 62 ('8781236784510', 214, 'Una\_emocionante\_aventura', 8,  
 63 NULL, 'Spanish', 'La\_Isla\_Perdida', 'HarperCollins', 3, 0),  
 64 ('8781236784511', 384, 'Un\_viaje\_misterioso', 5,  
 65 NULL, 'Spanish', 'Testigo\_Silencioso', 'Simon\_&\_Schuster', 1, 0),  
 66 ('8781236784511', 384, 'Un\_viaje\_misterioso', 9,  
 67 NULL, 'Spanish', 'Testigo\_Silencioso', 'Simon\_&\_Schuster', 3, 0),  
 68 ('8781236784512', 320, 'Una\_historia\_de\_amor\_y\_romance', 3,  
 69 NULL, 'Spanish', 'Amor\_en\_el\_Aire', 'Riverhead\_Books', 1, 0),  
 70 ('8781236784512', 320, 'Una\_historia\_de\_amor\_y\_romance', 5,  
 71 NULL, 'Spanish', 'Amor\_en\_el\_Aire', 'Riverhead\_Books', 2, 0),  
 72 ('8781236784513', 240, 'Un\_emocionante\_thriller', 6,  
 73 NULL, 'Spanish', 'Secretos\_Oscuros', 'Picador', 2, 0),  
 74 ('8781236784513', 240, 'Un\_emocionante\_thriller', 8,  
 75 NULL, 'Spanish', 'Secretos\_Oscuros', 'Picador', 3, 1),  
 76 ('8781236784514', 448, 'Una\_conmovedora\_historia\_de\_vida', 9,  
 77 NULL, 'Spanish', 'El\_Diario\_de\_un\_Joven', 'Anchor\_Books', 3, 0),  
 78 ('8781236784515', 224, 'Laugh\_out\_loud\_with\_this\_humorous\_tale', 3,  
 79 NULL, 'English', 'Catch-22', 'Dell\_Publishing', 1, 0),  
 80 ('8781236784516', 672, 'An\_epic\_historical\_romance', 7,  
 81 NULL, 'English', 'Gone\_with\_the\_Wind', 'Scribner', 2, 0),  
 82 ('8781236784517', 384, 'A\_fascinating\_scientific\_exploration', 8,  
 83 NULL, 'English', 'The\_Immortal\_Life\_of\_Henrietta\_Lacks',  
 84 'Broadway\_Books', 3, 0), ('8781236784518', 336,  
 85 'A\_mind-bending\_psychological\_thriller', 7,  
 86 NULL, 'English', 'Gone\_Girl', 'Anchor\_Books', 1, 0),  
 87 ('8781236784519', 400, 'A\_thought-provoking\_contemporary\_novel', 6,  
 88 NULL, 'English', 'The\_Alchemist', 'HarperOne', 2, 0),  
 89 ('8781236784520', 512, 'A\_dystopian\_world\_of\_suspense', 10,  
 90 NULL, 'English', '1984', 'Signet\_Classics', 3, 0),  
 91 ('8781236784521', 304, 'Uncover\_the\_secrets\_with\_this  
 92 suspenseful\_journey', 3, NULL, 'English', 'The\_Da\_Vinci\_Code',  
 93 'Doubleday', 1, 0),  
 94 ('8781236784522', 736, 'Embark\_on\_a\_thrilling\_adventure', 7,  
 95 NULL, 'English', 'The\_Hobbit', 'Houghton\_Mifflin', 2, 0),  
 96 ('8781236784523', 288, 'Un\_roman\_captivant', 8,  
 97 NULL, 'French', 'L\'\_tranger', 'Gallimard', 3, 0),



98 ('8781236784524', 432, 'Une histoire d\'amour\_inoubliable', 3,  
 99 NULL, 'French', 'Le\_Petit\_Prince', 'Gallimard', 1, 0),  
 100 ('8781236784525', 360, 'Un\_voyage\_pique \_ \_travers\_le\_temps', 8,  
 101 NULL, 'French', 'Les\_Mis\_rables', 'Penguin\_Classics', 2, 0),  
 102 ('8781236784526', 496, 'Un\_roman\_historique\_captivant', 9,  
 103 NULL, 'French', 'Germinal', 'Gallimard', 3, 0),  
 104 ('8781236784527', 288, 'Una\_commovente\_storia\_di\_vita', 4,  
 105 NULL, 'Italian', 'La\_Vita \_ \_Bella', 'Mondadori', 1, 0),  
 106 ('8781236784528', 336, 'Un\_romanzo\_di\_formazione', 9,  
 107 NULL, 'Italian', 'Il\_Gattopardo', 'Mondadori', 2, 0),  
 108 ('8781236784529', 432, 'Una\_storia\_di\_amicizia\_e\_avventura',  
 109 8, NULL, 'Italian', 'Le\_Aventure\_di\_Pinocchio', 'Feltrinelli',  
 110 3, 0),  
 111 ('8781236784530', 208, 'Eine\_aufregende\_Reise', 6,  
 112 NULL, 'German', 'Die\_Verwandlung', 'Fischer\_Verlag', 1, 1),  
 113 ('8781236784531', 384, 'Ein\_packender\_Krimi', 7, NULL,  
 114 'German', 'Der\_Name\_der\_Rose', 'Bastei\_L\_bbe', 2, 0),  
 115 ('8781236784532', 512, 'Ein\_historischer\_Roman\_voller\_Intrigen',  
 116 8, NULL, 'German', 'Die\_P \_pstin', 'L\_bbe', 3, 0),  
 117 ('8781236784533', 432, 'Uma\_aventura\_emocionante', 5,  
 118 NULL, 'Portuguese', 'A\_Viagem\_do\_Elefante', 'Caminho', 1, 0),  
 119 ('8781236784534', 320, 'Uma\_hist \_ria\_de\_amor\_e\_supera \_o', 5,  
 120 NULL, 'Portuguese', 'Memorial\_do\_Convento', 'Caminho', 2, 0),  
 121 ('8781236784535', 416, 'Um \_cl \_ssico\_da\_literatura\_universal', 12,  
 122 NULL, 'Portuguese', 'Dom\_Casmurro', 'Companhia\_das\_Letras', 3, 0),  
 123 ('8781236784536', 32, 'Nikos\_Tests!', 5, NULL, 'Greek', 'Zorbas',  
 124 'Norstedts\_F \_rlag', 1, 0),  
 125 ('8781236784537', 368, 'En\_f \_ngslande\_deckare', 6, NULL,  
 126 'Swedish', 'H \_xan', 'Albert\_Bonniers\_F \_rlag', 2, 0),  
 127 ('8781236784538', 192, 'En\_roman\_om\_k \_rlek\_och\_l \_ngtan', 10,  
 128 NULL, 'Swedish', 'Kvinnan\_p \_t\_get', 'Natur\_&\_Kultur', 3, 0),  
 129 ('8781236784539', 432, 'Eine\_bewegende\_Liebesgeschichte', 3,  
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609 ('discoveries', '8781236784597'),
610 ('science', '8781236784597');
611
612 —
613 — Dumping data for table 'reservation'
614 —
615
616 INSERT INTO 'reservation' ('user_id', 'date_of_reservation',
617 'isbn', 'last_update', 'expire_date', 'activation')
618 VALUES
619 (4, '2023-05-30', '8781236784506', '2023-06-01_13:35:50',
620 '2023-06-06', 'enabled'),
621 (15, '2023-06-01', '8781236784513', '2023-06-01_11:36:03',
622 '2023-06-08', 'disabled'),
623 (15, '2023-06-01', '8781236784553', '2023-06-01_11:35:54',
624 '2023-06-08', 'disabled'),
625 (16, '2023-06-01', '8781236784530', '2023-06-01_11:38:24',
626 '2023-06-08', 'disabled');
627
628 —
629 — Dumping data for table 'review'
630 —
631
632 INSERT INTO 'review' ('user_id', 'review_text', 'isbn', 'likert',
633 'last_update') VALUES
634 (1, 'Great_book!', '8781236784503', 5, '2023-05-22_14:45:27'),
635 (1, 'Interesting_read', '8781236784504', 4, '2023-05-22_14:45:27'),
636 (1, 'Nice_book!', '8781236784505', 4, '2023-06-02_10:38:21'),

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637 (1, 'Great', '8781236784506', 4, '2023-06-02\_10:41:36'),  
 638 (2, 'Loved\_it!', '8781236784503', 4, '2023-05-22\_14:45:27'),  
 639 (2, 'Not\_my\_cup\_of\_tea', '8781236784504', 2, '2023-05-22\_14:45:27'),  
 640 (3, 'Could\_be\_better', '8781236784503', 3, '2023-05-22\_14:45:27'),  
 641 (3, 'Highly\_recommended', '8781236784504', 5, '2023-05-22\_14:45:27'),  
 642 (4, 'Page-turner', '8781236784505', 5, '2023-05-22\_14:45:27'),  
 643 (5, 'Average\_book', '8781236784505', 3, '2023-05-22\_14:45:27'),  
 644 (6, 'Disappointing', '8781236784505', 2, '2023-05-22\_14:45:27'),  
 645 (7, 'Must-read!', '8781236784506', 5, '2023-05-22\_14:45:27'),  
 646 (8, 'Enjoyable', '8781236784506', 4, '2023-05-22\_14:45:27'),  
 647 (9, 'Waste\_of\_time', '8781236784506', 1, '2023-05-22\_14:45:27'),  
 648 (10, 'Well-written', '8781236784507', 4, '2023-05-22\_14:45:27'),  
 649 (11, 'Thought-provoking', '8781236784507', 5, '2023-05-22\_14:45:27'),  
 650 (12, 'Not\_recommended', '8781236784507', 2, '2023-05-22\_14:45:27'),  
 651 (13, 'Captivating\_story', '8781236784508', 5, '2023-05-22\_14:45:27'),  
 652 (14, 'Decent\_book', '8781236784508', 3, '2023-05-22\_14:45:27'),  
 653 (15, 'Couldn\_not\_put\_it\_down!', '8781236784508', 5, '2023-05-22  
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 655 (16, 'Intriguing\_plot', '8781236784509', 4, '2023-05-22\_14:45:27'),  
 656 (17, 'Meh', '8781236784509', 2, '2023-05-22\_14:45:27'),  
 657 (18, 'Good\_read', '8781236784509', 3, '2023-05-22\_14:45:27'),  
 658 (19, 'Unforgettable', '8781236784510', 5, '2023-05-22\_14:45:27'),  
 659 (20, 'Mediocre\_at\_best', '8781236784510', 3, '2023-05-22\_14:45:27'),  
 660 (21, 'Not\_my\_genre', '8781236784510', 2, '2023-05-22\_14:45:27'),  
 661 (22, 'Engaging\_characters', '8781236784511', 4,  
 662 '2023-05-22\_14:45:27'),  
 663 (23, 'Did\_not\_meet\_my\_expectations', '8781236784511', 2,  
 664 '2023-05-22\_14:45:27'),  
 665 (24, 'Highly\_entertaining', '8781236784511', 5,  
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 667 (25, 'Compelling\_narrative', '8781236784512', 5,  
 668 '2023-05-22\_14:45:27'),  
 669 (26, 'A\_bit\_slow-paced', '8781236784512', 3, '2023-05-22\_14:45:27'),  
 670 (27, 'Gripping\_till\_the\_end', '8781236784512', 4,  
 671 '2023-05-22\_14:45:27'),  
 672 (28, 'Couldn\_not\_get\_into\_it', '8781236784513', 2,  
 673 '2023-05-22\_14:45:27'),  
 674 (29, 'Well-crafted\_story', '8781236784513', 4,  
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 676 (30, 'Disappointed', '8781236784513', 2, '2023-05-22\_14:45:27'),  
 677 (31, 'A\_masterpiece', '8781236784514', 5, '2023-05-22\_14:45:27'),  
 678 (32, 'Not\_worth\_the\_hype', '8781236784514', 3,  
 679 '2023-05-22\_14:45:27'),  
 680 (33, 'Couldn\_not\_stop\_reading', '8781236784514', 5, '2023-05-22  
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 682 (34, 'Unexpected\_twist', '8781236784515', 4, '2023-05-22\_14:45:27'),  
 683 (35, 'Didn\_not\_enjoy\_it', '8781236784515', 2, '2023-05-22\_14:45:27'),  
 684 (36, 'Good\_book\_for\_a\_rainy\_day', '8781236784515', 3, '2023-05-22  
 685 14:45:27'),

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686 (37, 'Riveting', '8781236784516', 5, '2023-05-22_14:45:27'),
687 (38, 'Just_okay', '8781236784516', 3, '2023-05-22_14:45:27'),
688 (39, 'A_letdown', '8781236784516', 2, '2023-05-22_14:45:27'),
689 (40, 'Highly_recommended', '8781236784517', 5,
690 '2023-05-22_14:45:27'),
691 (41, 'Enjoyed_it!', '8781236784517', 4, '2023-05-22_14:45:27'),
692 (42, 'Couldn_not_get_into_the_story', '8781236784517', 2,
693 '2023-05-22_14:45:27'),
694 (43, 'Could_not_put_it_down!', '8781236784518', 5,
695 '2023-05-22_14:45:27'),
696 (44, 'Average_read', '8781236784518', 3, '2023-05-22_14:45:27'),
697 (45, 'Disappointing_ending', '8781236784518', 2,
698 '2023-05-22_14:45:27'),
699 (46, 'Engrossing', '8781236784519', 4, '2023-05-22_14:45:27'),
700 (47, 'Not_for_me', '8781236784519', 2, '2023-05-22_14:45:27'),
701 (48, 'Well-written', '8781236784519', 4, '2023-05-22_14:45:27'),
702 (49, 'Could_not_stop_reading', '8781236784520', 5,
703 '2023-05-22_14:45:27'),
704 (50, 'Underwhelming', '8781236784520', 2, '2023-05-22_14:45:27'),
705 (51, 'Interesting_premise', '8781236784520', 4,
706 '2023-05-22_14:45:27'),
707 (52, 'Captivating', '8781236784521', 5, '2023-05-22_14:45:27'),
708 (53, 'Did_not_like_it', '8781236784521', 2, '2023-05-22_14:45:27'),
709 (54, 'Well_worth_the_read', '8781236784521', 4,
710 '2023-05-22_14:45:27'),
711 (55, 'Fantastic_book!', '8781236784522', 5, '2023-05-22_14:45:27');
712
713 —
714 — Dumping data for table 'school'
715 —
716
717 INSERT INTO 'school' ('school_id', 'school_name', 'mail_address',
718 'city', 'phone', 'email', 'principal_name') VALUES
719 (1, 'paideia', 'soutsou_35', 'athens', '2102815535',
720 'paideia@mail.com', 'afstiros'),
721 (2, 'ipomoni', 'avgis_12', 'peiraias', '2102867867',
722 'ipomoni@mail.com', 'iremos'),
723 (3, 'kalosini', 'komninou_24', 'thessaloniki', '2102889098',
724 'kalosini@mail.com', 'xalaros');
725
726 —
727 — Dumping data for table 'user'
728 —
729
730 INSERT INTO 'user' ('user_id', 'username', 'password', 'role_id',
731 'controller_name', 'borrowed_books', 'school_id', 'last_login',
732 'reserved_copies', 'date_of_birth', 'first_name', 'last_name',
733 'status') VALUES
734 (1, 'johnsmith', '123', 4, NULL, 6, 1, '2023-06-02_15:57:58', 2,

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740 (4, 'sarahwilson', 'wilsonpass', 4, NULL, 1, 1,
741 '2023-06-02_15:54:09', 2, NULL, 'Sarah', 'Wilson', 'enabled'),
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746 (7, 'michaelbrown', 'brownpass', 4, NULL, 1, 1,
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748 (8, 'jessicawilson', 'wilsonpass', 4, NULL, 0, 2,
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774 (21, 'noahrodriguez', 'rodriguezpass', 4, NULL, 0, 3,
775 '2023-06-02_15:54:09', 0, NULL, 'Henry', 'Anderson', 'enabled'),
776 (22, 'sophiamartinez', 'martinezpass', 4, NULL, 0, 1,
777 '2023-06-02_15:54:09', 0, NULL, 'Oliver', 'Brown', 'enabled'),
778 (23, 'liamlopez', 'lopezpass', 4, NULL, 0, 2, '2023-06-02_15:54:09',
779 0, NULL, 'Emily', 'Thomas', 'enabled'),
780 (24, 'isabellaharris', 'harrispass', 4, NULL, 0, 3,
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782 (25, 'aidenbrown', 'brownpass', 4, NULL, 0, 1,
783 '2023-06-02_15:54:09', 0, NULL, 'Liam', 'Smith', 'enabled'),

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 802 (35, 'jacobyyoung', 'youngpass', 4, NULL, 0, 2,  
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 804 (36, 'emmawilson', 'wilsonpass', 4, NULL, 0, 3,  
 805 '2023-06-02\_15:54:09', 0, NULL, NULL, NULL, 'enabled'),  
 806 (37, 'jaydenbrown', 'brownpass', 4, NULL, 0, 1,  
 807 '2023-06-02\_15:54:09', 0, NULL, NULL, NULL, 'enabled'),  
 808 (38, 'oliviawilliams', 'williamspass', 4, NULL, 0, 2,  
 809 '2023-06-02\_15:54:09', 0, NULL, NULL, NULL, 'enabled'),  
 810 (39, 'johntaylor', 'taylorpass', 4, NULL, 0, 3,  
 811 '2023-06-02\_15:54:09', 0, NULL, NULL, NULL, 'enabled'),  
 812 (40, 'sophiawhite', 'whitepass', 4, NULL, 0, 1,  
 813 '2023-06-02\_15:54:09', 0, NULL, NULL, NULL, 'enabled'),  
 814 (41, 'gracewilson', '123', 3, NULL, 0, 2, '2023-06-03\_07:24:23',  
 815 0, '1970-01-01', 'Gracie', 'Wilson', 'enabled'),  
 816 (42, 'andrewthompson', 'thompsonpass', 3, NULL, 0, 1,  
 817 '2023-06-02\_15:54:09', 0, '1971-01-01', NULL, NULL, 'enabled'),  
 818 (43, 'victoriamartin', 'martinpass', 3, NULL, 0, 3,  
 819 '2023-06-02\_15:54:09', 0, '1972-01-01', NULL, NULL, 'enabled'),  
 820 (44, 'jacoblopez', 'lopezpass', 3, NULL, 0, 1,  
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 822 (45, 'mariaharris', 'harrispass', 3, NULL, 1, 2,  
 823 '2023-06-02\_15:54:09', 0, '1974-01-01', NULL, NULL, 'enabled'),  
 824 (46, 'danielmiller', 'millerpass', 3, NULL, 0, 3,  
 825 '2023-06-02\_15:54:09', 0, '1975-01-01', NULL, NULL, 'enabled'),  
 826 (47, 'sophiacarter', 'carterpass', 3, NULL, 1, 1,  
 827 '2023-06-02\_15:54:09', 0, '1976-01-01', NULL, NULL, 'enabled'),  
 828 (48, 'ethanjones', 'jonespass', 3, NULL, 0, 2,  
 829 '2023-06-02\_15:54:09', 0, '1977-01-01', NULL, NULL, 'enabled'),  
 830 (49, 'oliviamartinez', 'martinezpass', 3, NULL, 0, 3,  
 831 '2023-06-02\_15:54:09', 0, '1978-01-01', NULL, NULL, 'enabled'),  
 832 (50, 'liamdavis', 'davispass', 3, NULL, 0, 1,

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833 '2023-06-02_15:54:09', 0, '1979-01-01', NULL, NULL, 'enabled'),
834 (51, 'avaadams', 'adamspass', 3, NULL, 1, 2,
835 '2023-06-02_15:54:09', 0, '1980-01-01', NULL, NULL, 'enabled'),
836 (52, 'noahcruz', 'cruzpass', 3, NULL, 0, 3,
837 '2023-06-02_15:54:09', 0, '1981-01-01', NULL, NULL, 'enabled'),
838 (53, 'isabellaevans', 'evanspass', 3, NULL, 0, 1,
839 '2023-06-02_15:54:09', 0, '1982-01-01', NULL, NULL, 'enabled'),
840 (54, 'aidenparker', 'parkerpass', 3, NULL, 0, 2,
841 '2023-06-02_15:54:09', 0, '1983-01-01', NULL, NULL, 'enabled'),
842 (55, 'sophiawright', 'wrightpass', 3, NULL, 1, 3,
843 '2023-06-02_15:54:09', 0, '1984-01-01', NULL, NULL, 'enabled'),
844 (56, 'bobmarley', 'marleypass', 1, NULL, 0, NULL,
845 '2023-06-02_15:54:09', 0, NULL, NULL, NULL, 'enabled'),
846 (57, 'johndoe', 'doepass', 2, 'doe', 2, 1,
847 '2023-06-03_11:55:28', 0, NULL, NULL, NULL, 'enabled'),
848 (58, 'janedonte', 'janepass', 2, 'donte', 1, 2,
849 '2023-06-02_15:54:09', 0, NULL, NULL, NULL, 'enabled'),
850 (59, 'marksmith', 'smithpass', 2, 'smith', 1, 3,
851 '2023-06-02_15:54:09', 0, NULL, NULL, NULL, 'enabled'),
852 (63, 'nikos', '1', 4, NULL, 0, 2, '2023-06-02_15:54:09',
853 0, '2023-05-03', NULL, NULL, 'enabled'),
854 (66, 'geovarv', 'varvpass', 4, NULL, 0, 2,
855 '2023-06-02_15:54:09', 0, '2023-05-04', 'giorgos', 'varveris',
856 'enabled');
857
858 —
859 — Dumping data for table 'writer'
860 —
861
862 INSERT INTO 'writer' ('last_name', 'first_name', 'isbn') VALUES
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864 ('Johnson', 'Emily', '8781236784504'),
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976 /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

```

## 1.3 User Manual

### 1.3.1 Login/Signup

Ο κάθε χρήστης εισέρχεται στην εφαρμογή είτε κάνοντας login είτε κάνοντας εγγραφή αν δεν έχει ήδη δημιουργήσει λογαριασμό. Η εγγραφή επιτρέπεται μόνο σε καθηγητές και μαθητές (δεν έχει κάποιος το δικαίωμα να εγγραφεί ως administrator ή controller). Για να γίνει είσοδος από κάποιον χρήστη, θα πρέπει πρώτα ο λογαριασμός του να εγκριθεί από τον controller του σχολείου του.

### 1.3.2 Student

#### Communication Info

Μπορεί να δει τα στοιχειά επικοινωνίας του σχολείου του.

#### My account

Βλέπει τους δανεισμούς και τις κρατήσεις του, ενώ έχει δικαίωμα να αλλάξει και τον κωδικό του.

#### Search

Βλέπει τα βιβλία που ανήκουν στο σχολείο του. Μπορεί να κάνει αναζήτηση με βάση τον τίτλο, τον συγγραφέα, την κατηγορία ή τα διαθέσιμα αντίτυπα.

#### Borrow

Κάνει αίτηση για τον δανεισμό ενός βιβλίου

#### Make a Reservation

Κάνει αίτηση για την κράτηση ενός βιβλίου

#### Review

Γράφει κριτική και αξιολογεί οποιοδήποτε από τα βιβλία του σχολείου του.

### 1.3.3 Teacher

#### Communication Info

Μπορεί να δει τα στοιχειά επικοινωνίας του σχολείου του.

#### My account

Βλέπει τους δανεισμούς και τις κρατήσεις του, ενώ έχει δικαίωμα να αλλάξει και τον κωδικό του.

## **Search**

Βλέπει τα βιβλία που ανήκουν στο σχολείο του. Μπορεί να κάνει αναζήτηση με βάση τον τίτλο, τον συγγραφέα, την κατηγορία ή τα διαθέσιμα αντίτυπα.

## **Borrow**

Κάνει αίτηση για τον δανεισμό ενός βιβλίου

## **Make a Reservation**

Κάνει αίτηση για την κράτηση ενός βιβλίου

## **Review**

Γράφει κριτική και αξιολογεί οποιοδήποτε από τα βιβλία του σχολείου του.

## **My info**

Έχει δικαίωμα να αλλάξει τα προσωπικά του στοιχεία

## **1.3.4 Controller**

### **Communication Info**

Μπορεί να δει τα στοιχεία επικοινωνίας του σχολείου του.

### **My account**

Βλέπει τους δανεισμούς και τις κρατήσεις του, ενώ έχει δικαίωμα να αλλάξει και τον κωδικό του.

## **Search**

Βλέπει τα βιβλία που ανήκουν στο σχολείο του. Μπορεί να κάνει αναζήτηση με βάση τον τίτλο, τον συγγραφέα, την κατηγορία ή τα διαθέσιμα αντίτυπα.

## **Borrow**

Δέχεται/Απορρίπτει τις αιτήσεις δανεισμού.

## **Make a Reservation**

Δέχεται/Απορρίπτει τις αιτήσεις για κράτηση.

## **Review**

Βλέπει τον μέσο όρο των κριτικών των χρηστών που ανήκουν στο σχολείο του και τον μέσο όρο των κριτικών ανά κατηγορία.

### **Expired Borrowings**

Βλέπει τους δανεισμούς που είναι εκπρόθεσμοι κατά έναν συγκεκριμένο αριθμό ημερών. Επίσης ψάχνει με βάση το όνομα ή το επώνυμο χρηστών για εκπρόθεσμους δανεισμούς.

### **Add Book**

Προσθέτει ένα βιβλίο στη βιβλιοθήκη του σχολείου του.

### **Alter Book**

Αλλάζει τις πληροφορίες ενός υπάρχοντος βιβλίου του σχολείου του.

### **User Status**

Ενεργοποιεί/Απενεργοποιεί τους λογαριασμούς των χρηστών του σχολείου του.

## **1.3.5 Administrator**

### **Borrowigs per School**

Βλέπει τον αριθμό δανεισμών ανά σχολείο κατά έναν μήνα ή σε διάρκεια ενός ημερολογιακού έτους.

### **Search per Field**

Βλέπει ποιοι συγγραφείς έχουν γράψει τουλάχιστον ένα βιβλίο που ανήκει σε μια συγκεκριμένη κατηγορία. Επίσης, βλέπει ποιοι καθηγητές έχουν δανειστεί τουλάχιστον ένα βιβλίο μιας συγκεκριμένης κατηγορίας.

### **Young Teachers**

Βλέπει τους καθηγητές που είναι κάτω των 40 ετών ταξινομημένους με βάση τον αριθμό των βιβλίων που έχουν δανειστεί.

### **Unlucky Writers**

Βλέπει τους συγγραφείς των οποίων κανένα βιβλίο δεν έχει δανειστεί σε κάποιο χρήστη.

### **Writers with Fewer Books**

Βλέπει τους συγγραφείς που έχουν γράψει τουλάχιστον 5 λιγότερα βιβλία από τον συγγραφέα που έχει γράψει τα περισσότερα.

### **Backup**

Μπορεί να δημιουργήσει ένα αντίγραφο της βάσης.

### **Add School**

Μπορεί να προσθέσει ένα σχολείο στη βάση.

### **Controller Status**

Ενεργοποιεί/Απενεργοποιεί τον λογαριασμό κάθε controller.

## 1.4 Βήματα Εγκατάστασης Εφαρμογής & Configurations

### Prerequisite installation steps on macOS

1. Download sql packages with homebrew:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

```
brew install mysql
```

2. Open a terminal and login as the root user. This can be done by the following command:

```
sudo mysql -u root -p
```

3. Create a new MySQL user with the following credentials as shown in the below command:

```
CREATE USER 'root'@'localhost' IDENTIFIED BY 'root';
```

4. Grant privileges to the user on the database using:

```
GRANT ALL PRIVILEGES ON library to 'root'@'localhost' WITH  
GRANT OPTION;
```

5. To check if the privileges are set correctly you can see the grant table with this command:

```
FLUSH PRIVILEGES;
```

6. To clone this repository, use the following command:

```
git clone https://github.com/nikoskarako/Library-Database-Project
```

in a local working directory.

7. Create the database in a DBMS that supports MySQL/MariaDB and run the scripts "library\_schema.sql" and "library\_insert\_data.sql"
8. Visit <http://localhost:8889/login.php> from your web browser

## 1.5 Git Repository της εφαρμογής

Μπορείτε να μεταβείτε στο Git Repository της εφαρμογής μας πατώντας [εδώ](#)