Matthew O’Mara

Web Site Title:
On Stage music equipment rental

Marketing Material:

Are you tired of being a talent-less hack? Do you dream of being a music legend but can’t afford expensive equipment because you’ve defaulted on all of your student loans? Are you fed up with time consuming and costly maintenance, when you could be spending your time learning a new chord or scale? Bad credit? no credit? no problem! At onstage we have you covered with the latest in cruelty free farm to table music technology delivered directly to your doorstep. Our instrument rental service is backed by our hashtag no hassle money back guarantee. Try your first month free today! What are you waiting for? Come join us on stage!

Data Model:

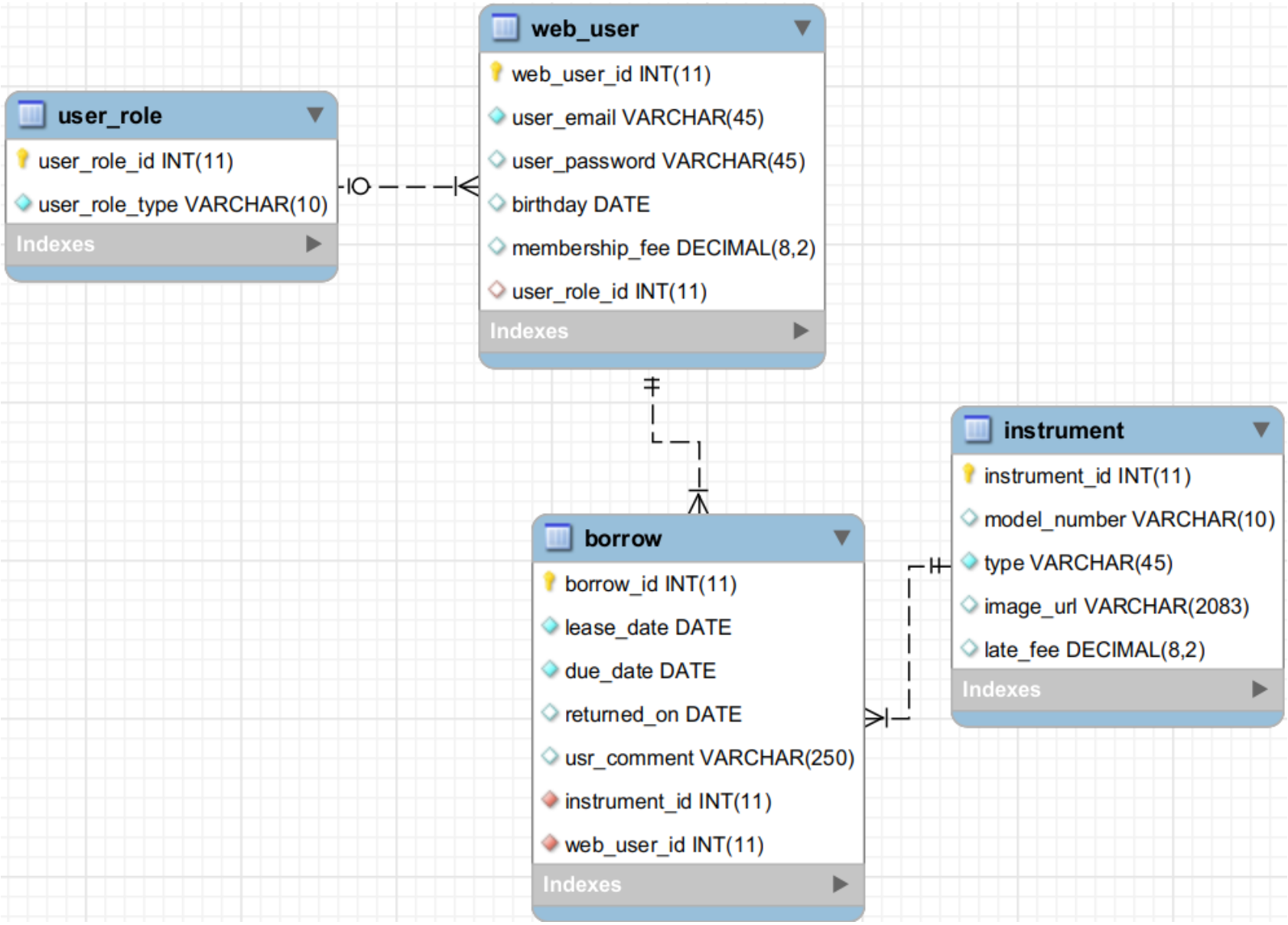
web_user
web_user_id INT(11)
user_email VARCHAR(45)
user_password VARCHAR(45)
birthday DATE
membership_fee DECIMAL(8,2)
user_role_id INT(11)
Indexes
user_role
user_role_id INT(11)
user_role_type VARCHAR(10)
Indexes
instrument
instrument_id INT(11)
model_number VARCHAR(10)
type VARCHAR(45)
image_url VARCHAR(2083)
late_fee DECIMAL(8,2)
Indexes
borrow
borrow_id INT(11)
lease_date DATE
due_date DATE
returned_on DATE
usr_comment VARCHAR(250)
instrument_id INT(11)
web_user_id INT(11)
Indexes

Table Designs:

user_role - Table

Table | Columns | Indexes | Foreign Keys | Triggers | Partitioning | Options | Inserts | Privileges

Column Name	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default /
user_role_id	INT(11)	☑	☑	☑	☐	☐	☐	☑	☐	
user_role_type	VARCHAR(10)	☐	☑	☑	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	

instrument - Table

Table | Columns | Indexes | Foreign Keys | Triggers | Partitioning | Options | Inserts | Privileges

Column Name	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default
instrument_id	INT(11)	☑	☑	☑	☐	☐	☐	☑	☐	
model_number	VARCHAR(10)	☐	☐	☑	☐	☐	☐	☐	☐	
type	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	☐	
image_url	VARCHAR(2083)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
late_fee	DECIMAL(8,2)	☐	☐	☐	☐	☐	☐	☐	☐	NULL

web_user - Table

Table | Columns | Indexes | Foreign Keys | Triggers | Partitioning | Options | Inserts | Privileges

Column Name	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default
web_user_id	INT(11)	☑	☑	☐	☐	☐	☐	☑	☐	
user_email	VARCHAR(45)	☐	☑	☑	☐	☐	☐	☐	☐	
user_password	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐	
birthday	DATE	☐	☐	☐	☐	☐	☐	☐	☐	NULL
membership_fee	DECIMAL(8,2)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
user_role_id	INT(11)	☐	☐	☐	☐	☐	☐	☐	☐	

Table | Columns | Indexes | Foreign Keys | Triggers | Partitioning | Options | Inserts | Privileges

Foreign Key Name	Referenced Table
fk_web_user_user_role	`mydb`.`user_role`

Foreign Key Columns

	Column	Referenced Column
☐	web_user_id	
☐	user_email	
☐	user_password	
☐	birthday	
☐	membership_fee	
☑	user_role_id	user_role_id

borrow - Table

Table | Columns | Indexes | Foreign Keys | Triggers | Partitioning | Options | Inserts | Privileges

Column Name	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default /
borrow_id	INT(11)	☑	☑	☑	☐	☐	☐	☑	☐	
lease_date	DATE	☐	☑	☐	☐	☐	☐	☐	☐	
due_date	DATE	☐	☑	☐	☐	☐	☐	☐	☐	
returned_on	DATE	☐	☐	☐	☐	☐	☐	☐	☐	NULL
usr_comment	VARCHAR(250)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
instrument_id	INT(11)	☐	☑	☐	☐	☐	☐	☐	☐	
web_user_id	INT(11)	☐	☑	☐	☐	☐	☐	☐	☐	

borrow - Table

Table | Columns | Indexes | Foreign Keys | Triggers | Partitioning | Options | Inserts | Privileges

Foreign Key Name	Referenced Table
fk_borrow_instrument1	`mydb`.`instrument`
fk_borrow_web_user1	`mydb`.`web_user`

Foreign Key Columns

	Column	Referenced Column
☐	borrow_id	
☐	lease_date	
☐	due_date	
☐	returned_on	
☐	usr_comment	
☑	instrument_id	instrument_id
☐	web_user_id	

SELECT Statements:

a.

```
61  SELECT * FROM instrument ORDER BY model_number;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

#	instrument_id	model_number	instrument_type	image_url	late_fee	times_borrowed
1	4	CLR-02	Clarinet	NULL	NULL	NULL
2	1	GT-1	Guitar	images/guitar1.png	20.00	0
3	2	PI-01	Piano	NULL	NULL	NULL
4	3	TRP-02	Trumpet	NULL	NULL	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL

instrument 3

Action Output

	#	Time	Action	Message
✔	1	14:40:00	SELECT * FROM borrow LIMIT 0, 1000	10 row(s) returned
✘	2	14:42:53	SELECT * FROM INSTRUMENT LIMIT 0, 1000	Error Code: 1146. Table
✔	3	14:43:17	SELECT * FROM instrument LIMIT 0, 1000	4 row(s) returned
✔	4	14:44:24	SELECT * FROM instrument ORDER BY model_number LIMIT 0,...	4 row(s) returned

b.

```
63  SELECT user_role_type, web_user.user_role_id,
64  user_email user_password, birthday, membership_fee, web_user_id
65  FROM web_user, user_role
66  WHERE web_user.user_role_id = user_role.user_role_id;
```

Result Grid Filter Rows: Export: Wrap Cell Content:

#	user_role_type	user_role_id	user_password	birthday	membership_fee	web_user_id
1	ADMIN	1	johnholmes@gmail.com	1994-08-08	NULL	1
2	ADMIN	1	johndaily@gmail.com	NULL	NULL	5
3	USER	2	throwsexception@hotmail.com	1989-06-14	20.00	3
4	USER	2	guidovr@python.com	1956-01-31	20.00	4

Result 4

Action Output

	#	Time	Action	Message
✗	1	15:22:48	SELECT user_role_type, user_role_id, user_email user_passwor...	Error Code: 1052. Column 'user_
✗	2	15:24:22	SELECT user_role_type, user_role_id, user_email user_passwor...	Error Code: 1052. Column 'user_
✓	3	15:26:38	SELECT user_role_type, web_user.user_role_id, user_email user...	4 row(s) returned

c.

```
75 SELECT model_number, lease_date, due_date, returned_on,
76     instrument_type, image_url, usr_comment, late_fee
77 FROM borrow , instrument
78 WHERE borrow.instrument_id = instrument.instrument_id;
```

Result Grid Filter Rows: Export: Wrap Cell Content:

#	model_number	lease_date	due_date	returned_on	instrument_type	image_url	usr_comment	late_fee
1	GT-1	2019-02-21	2019-07-21	2019-07-21	Guitar	images/guitar1.png	Great Service	20.00
2	PI-01	2000-05-11	2000-05-20	NULL	Piano	images/piano1.png	I lost my rental	52.00
3	PI-01	2015-07-01	2015-07-28	2001-07-28	Piano	images/piano1.png	Can't wait to rent again!	52.00
4	PI-01	2017-05-12	2017-06-24	2017-07-15	Piano	images/piano1.png	Sorry, I'm Needed a few more wee…	52.00
5	PI-01	2019-04-19	2019-05-20	2019-05-20	Piano	images/piano1.png	I'm gonna be the very best	52.00
6	TRP-02	2001-02-22	2001-02-28	NULL	Trumpet	images/trumpet1.png	NULL	15.00
7	TRP-02	2017-08-20	2017-09-14	2017-09-13	Trumpet	images/trumpet1.png	No late fees here!	15.00
8	TRP-02	2019-09-22	2019-10-16	2019-10-16	Trumpet	images/trumpet1.png	Santa is comin to town!	15.00
9	CLR-02	2001-02-28	2001-03-18	2001-02-25	Clarinet	NULL	I got bored	NULL
10	CLR-02	2015-04-22	2015-05-28	NULL	Clarinet	NULL	NULL	NULL

Result 18

Action Output

#	Time	Action	Message	Duratic
1	21:03:52	SELECT model_number, lease_date, due_date, returned_on, …	10 row(s) returned	0.033 s

d.

```
80 SELECT user_email, user_password, birthday, membership_fee,
81     lease_date, due_date, returned_on,
82     instrument_type, image_url, usr_comment, late_fee
83 FROM borrow , instrument, web_user
84 WHERE borrow.instrument_id = instrument.instrument_id
85 AND borrow.web_user_id = web_user.web_user_id;
86
```

Result Grid Filter Rows: Export: Wrap Cell Content:

#	user_email	user_password	birthday	membership_fee	lease_date	due_date	returned_on	instrument_type	image_url	usr_comment	late_fee
1	johnholmes@gmail.com	password1	1994-08-08	NULL	2019-04-19	2019-05-20	2019-05-20	Piano	images/piano1.png	I'm gonna be the very best	52.00
2	johnholmes@gmail.com	password1	1994-08-08	NULL	2001-02-28	2001-03-18	2001-02-25	Clarinet	NULL	I got bored	NULL
3	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2019-02-21	2019-07-21	2019-07-21	Guitar	images/guitar1.png	Great Service	20.00
4	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2001-02-22	2001-02-28	NULL	Trumpet	images/trumpet1.png	NULL	15.00
5	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2017-08-20	2017-09-14	2017-09-13	Trumpet	images/trumpet1.png	No late fees here!	15.00
6	guidovr@python.com	snakes$	1956-01-31	20.00	2000-05-11	2000-05-20	NULL	Piano	images/piano1.png	I lost my rental	52.00
7	guidovr@python.com	snakes$	1956-01-31	20.00	2015-07-01	2015-07-28	2001-07-28	Piano	images/piano1.png	Can't wait to rent again!	52.00
8	guidovr@python.com	snakes$	1956-01-31	20.00	2019-09-22	2019-10-16	2019-10-16	Trumpet	images/trumpet1.png	Santa is comin to town!	15.00
9	johndaily@gmail.com	coolGuy15$	NULL	NULL	2017-05-12	2017-06-24	2017-07-15	Piano	images/piano1.png	Sorry, I'm Needed a few more wee…	52.00
10	johndaily@gmail.com	coolGuy15$	NULL	NULL	2015-04-22	2015-05-28	NULL	Clarinet	NULL	NULL	NULL

Result 19

Action Output

	#	Time	Action	Message	Duration / Fetch
✔	1	21:03:52	SELECT model_number, lease_date, due_date, returned_on, ...	10 row(s) returned	0.033 sec / 0.043 sec
✔	2	21:21:31	SELECT user_email, user_password, birthday, membership_fee...	10 row(s) returned	0.023 sec / 0.044 sec

e.

```
87  SELECT user_role_type, user_email, user_password, birthday, membership_fee,
88      lease_date, due_date, returned_on,
89      instrument_type, image_url, usr_comment, late_fee
90  FROM borrow , instrument, web_user, user_role
91  WHERE borrow.instrument_id = instrument.instrument_id
92  AND borrow.web_user_id = web_user.web_user_id
93  AND user_role.user_role_id = web_user.user_role_id;
94
```

Result Grid Filter Rows: Export: Wrap Cell Content:

#	user_role_type	user_email	user_password	birthday	membership_fee	lease_date	due_date	returned_on	instrument_type	image_url	usr_comment	late_fee
1	ADMIN	johnholmes@gmail.com	password1	1994-08-08	NULL	2001-02-28	2001-03-18	2001-02-25	Clarinet	NULL	I got bored	NULL
2	ADMIN	johnholmes@gmail.com	password1	1994-08-08	NULL	2019-04-19	2019-05-20	2019-05-20	Piano	images/piano1.png	I'm gonna be the very best	52.00
3	ADMIN	johndaily@gmail.com	coolGuy15$	NULL	NULL	2015-04-22	2015-05-28	NULL	Clarinet	NULL	NULL	NULL
4	ADMIN	johndaily@gmail.com	coolGuy15$	NULL	NULL	2017-05-12	2017-06-24	2017-07-15	Piano	images/piano1.png	Sorry, I'm Needed a few more wee…	52.00
5	USER	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2019-02-21	2019-07-21	2019-07-21	Guitar	images/guitar1.png	Great Service	20.00
6	USER	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2001-02-22	2001-02-28	NULL	Trumpet	images/trumpet1.png	NULL	15.00
7	USER	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2017-08-20	2017-09-14	2017-09-13	Trumpet	images/trumpet1.png	No late fees here!	15.00
8	USER	guidovr@python.com	snakes$	1956-01-31	20.00	2000-05-11	2000-05-20	NULL	Piano	images/piano1.png	I lost my rental	52.00
9	USER	guidovr@python.com	snakes$	1956-01-31	20.00	2015-07-01	2015-07-28	2001-07-28	Piano	images/piano1.png	Can't wait to rent again!	52.00
10	USER	guidovr@python.com	snakes$	1956-01-31	20.00	2019-09-22	2019-10-16	2019-10-16	Trumpet	images/trumpet1.png	Santa is comin to town!	15.00

Result 21

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:32:27	SELECT user_role_type, user_email, user_password, birthday, ...	10 row(s) returned	0.029 sec / 0.041 sec

f.

```
87  SELECT user_role_type, user_email, user_password, birthday, membership_fee,
88      lease_date, due_date, returned_on,
89      instrument_type, image_url, usr_comment, late_fee
90  FROM borrow , instrument, web_user, user_role
91  WHERE web_user.web_user_id = '3'
92  AND borrow.instrument_id = instrument.instrument_id
93  AND borrow.web_user_id = web_user.web_user_id
94  AND user_role.user_role_id = web_user.user_role_id;
```

Result Grid Filter Rows: Export: Wrap Cell Content:

#	user_role_type	user_email	user_password	birthday	membership_fee	lease_date	due_date	returned_on	instrument_type	image_url	usr_comment	late_fee
1	USER	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2019-02-21	2019-07-21	2019-07-21	Guitar	images/guitar1.png	Great Service	20.00
2	USER	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2001-02-22	2001-02-28	NULL	Trumpet	images/trumpet1.png	NULL	15.00
3	USER	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2017-08-20	2017-09-14	2017-09-13	Trumpet	images/trumpet1.png	No late fees here!	15.00

Result 25

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:37:58	SELECT user_role_type, user_email, user_password, birthday, ...	3 row(s) returned	0.044 sec / 0.040 sec

g.

```
96  SELECT user_role_type, user_email, user_password, birthday, membership_fee,
97      lease_date, due_date, returned_on,
98      instrument_type, image_url, usr_comment, late_fee
99  FROM borrow , instrument, web_user, user_role
100 WHERE borrow.instrument_id = instrument.instrument_id
101 AND borrow.web_user_id = web_user.web_user_id
102 AND user_role.user_role_id = web_user.user_role_id
103 AND instrument.instrument_type LIKE '%a%';
```

Result Grid Filter Rows: Export: Wrap Cell Content:

#	user_role_type	user_email	user_password	birthday	membership_fee	lease_date	due_date	returned_on	instrument_type	image_url	usr_comment	late_fee
1	ADMIN	johnholmes@gmail.com	password1	1994-08-08	NULL	2001-02-28	2001-03-18	2001-02-25	Clarinet	NULL	I got bored	NULL
2	ADMIN	johnholmes@gmail.com	password1	1994-08-08	NULL	2019-04-19	2019-05-20	2019-05-20	Piano	images/piano1.png	I'm gonna be the very best	52.00
3	ADMIN	johndaily@gmail.com	coolGuy15$	NULL	NULL	2015-04-22	2015-05-28	NULL	Clarinet	NULL	NULL	NULL
4	ADMIN	johndaily@gmail.com	coolGuy15$	NULL	NULL	2017-05-12	2017-06-24	2017-07-15	Piano	images/piano1.png	Sorry, I'm Needed a few more wee...	52.00
5	USER	throwsexception@hotmail.com	abc123!	1989-06-14	20.00	2019-02-21	2019-07-21	2019-07-21	Guitar	images/guitar1.png	Great Service	20.00
6	USER	guidovr@python.com	snakes$	1956-01-31	20.00	2000-05-11	2000-05-20	NULL	Piano	images/piano1.png	I lost my rental	52.00
7	USER	guidovr@python.com	snakes$	1956-01-31	20.00	2015-07-01	2015-07-28	2001-07-28	Piano	images/piano1.png	Can't wait to rent again!	52.00

Result 31

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:16:58	SELECT user_role_type, user_email, user_password, birthday, ...	7 row(s) returned	0.029 sec / 0.044 sec