**8.1**

SELECT list\_price,

FORMAT(list\_price, 1) AS formated\_price,

CONVERT(list\_price, SIGNED) AS converted\_price,

CAST(list\_price AS SIGNED) AS casted\_price

FROM products;

**8.2**

SELECT date\_added,

CAST(date\_added AS date) AS casted\_date,

CAST(date\_added AS CHAR(7)) AS year\_and\_month,

CAST(date\_added AS time) AS time\_only

FROM products;

**9.1**

SELECT order\_date,

DATE\_FORMAT(order\_date, '%Y') AS four\_digit\_year,

DATE\_FORMAT(order\_date, '%b-%d-%Y') AS abr\_months,

DATE\_FORMAT(order\_date, '%h:%i %p') AS hour\_min,

DATE\_FORMAT(order\_date, '%m/%d/%y %H:%I') AS full\_date

FROM orders;

**9.2**

SELECT email\_address,

REGEXP\_REPLACE(

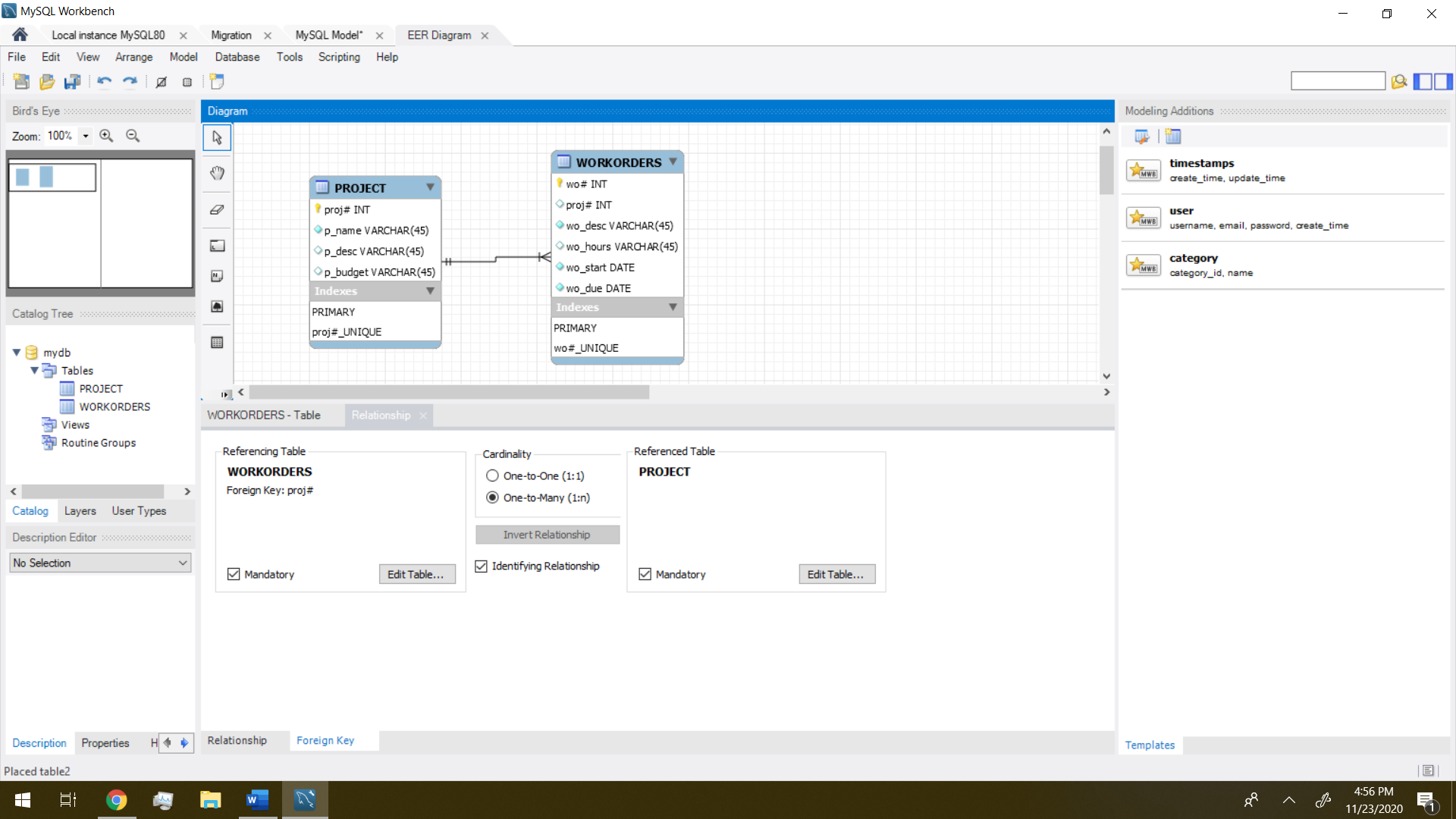
REGEXP\_SUBSTR(email\_address, '^[A-Z]\*@'), '@', '') AS user\_name,

REGEXP\_REPLACE(

REGEXP\_SUBSTR(email\_address, '@([A-Z]|\.)\*'), '@', '') AS domain\_name

FROM administrators

**10.1**



**11.1**

CREATE INDEX addresses\_zip\_code\_index

ON addresses (zip\_code)

**11.2**

CREATE DATABASE IF NOT EXISTS my\_web\_db;

USE my\_web\_db;

CREATE TABLE users

(

user\_id INT PRIMARY KEY UNIQUE,

email\_address VARCHAR(100),

first\_name VARCHAR(45),

last\_name VARCHAR(45)

);

CREATE TABLE products

(

product\_id INT PRIMARY KEY UNIQUE,

product\_name VARCHAR(45)

);

CREATE TABLE downloads

(

download\_id INT PRIMARY KEY UNIQUE,

user\_id INT,

download\_date DATETIME,

filename VARCHAR(50),

product\_id INT,

CONSTRAINT downloads\_fk\_users

FOREIGN KEY (user\_id)

REFERENCES users (user\_id),

CONSTRAINT downloads\_fk\_products

FOREIGN KEY (product\_id)

REFERENCES products (product\_id)

);

**11.3**

USE my\_web\_db;

INSERT INTO users

(user\_id, email\_address, first\_name, last\_name)

VALUES (1,"johnsmith@gmail.com","John","Smith");

INSERT INTO users

(user\_id, email\_address, first\_name, last\_name)

VALUES (2,"janedoe@yahoo.com","Jane","Doe");

INSERT INTO products

(product\_id, product\_name)

VALUES (1,"Local Music Vol 1");

INSERT INTO products

(product\_id, product\_name)

VALUES (2,"Local Music Vol 2");

INSERT INTO downloads

(download\_id, user\_id, download\_date, filename, product\_id)

VALUES (1,1,NOW(),"pedals\_are\_falling.mp3",2);

INSERT INTO downloads

(download\_id, user\_id, download\_date, filename, product\_id)

VALUES (2,2,NOW(),"turn\_signal.mp3",1);

INSERT INTO downloads

(download\_id, user\_id, download\_date, filename, product\_id)

VALUES (3,2,NOW(),"pedals\_are\_falling.mp3",2);

SELECT email\_address, first\_name, last\_name, download\_date, filename, product\_name

FROM users

JOIN downloads

ON users.user\_id = downloads.user\_id

JOIN products

ON products.product\_id = downloads.product\_id

ORDER BY email\_address DESC, product\_name ASC;

**11.4**

ALTER TABLE products

ADD COLUMN product\_price DECIMAL(5,2) DEFAULT 9.99,

ADD COLUMN add\_date DATE;

**11.5**

ALTER TABLE users

MODIFY first\_name VARCHAR(20) NOT NULL;

UPDATE users

SET first\_name = null

WHERE user\_id = 1;

UPDATE users

SET first\_name = "123456789012345678901"

WHERE user\_id = 1;

**12.1**

USE my\_guitar\_shop;

CREATE OR REPLACE VIEW order\_item\_products AS

SELECT o.order\_id, order\_date, tax\_amount, ship\_date, product\_name, item\_price,

discount\_amount, item\_price - discount\_amount AS final\_price, quantity, (item\_price - discount\_amount) \* quantity AS item\_total

FROM orders AS o

JOIN order\_items AS oi

ON o.order\_id = oi.order\_id

JOIN products AS p

ON oi.product\_id = p.product\_id;

**12.2**

CREATE OR REPLACE VIEW product\_summary AS

SELECT product\_name, COUNT(order\_id) AS order\_count, SUM(quantity) AS order\_quantity\_total, SUM(item\_total) AS order\_total

FROM order\_item\_products

GROUP BY product\_name;

**12.3**

SELECT product\_name, order\_total

FROM product\_summary

ORDER BY order\_total DESC

LIMIT 5