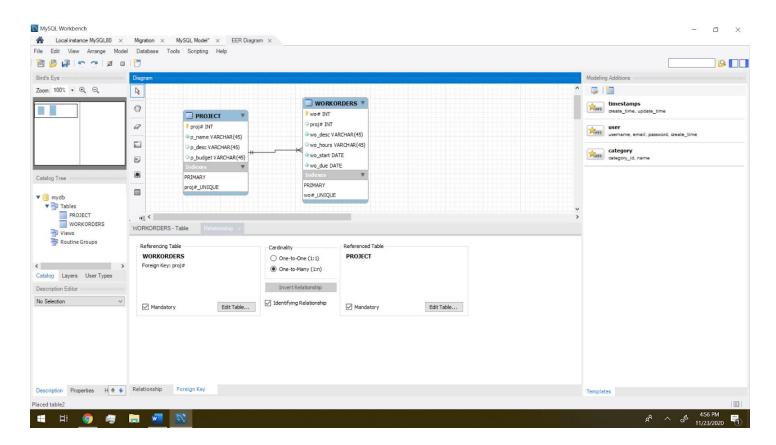
FROM administrators

```
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
```

10.1



11.1

CREATE INDEX addresses_zip_code_index ON addresses (zip_code)

```
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)
                 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)
);
```

```
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;
```

12.2

```
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
```