

/\* =========================

Create the Messaging database.

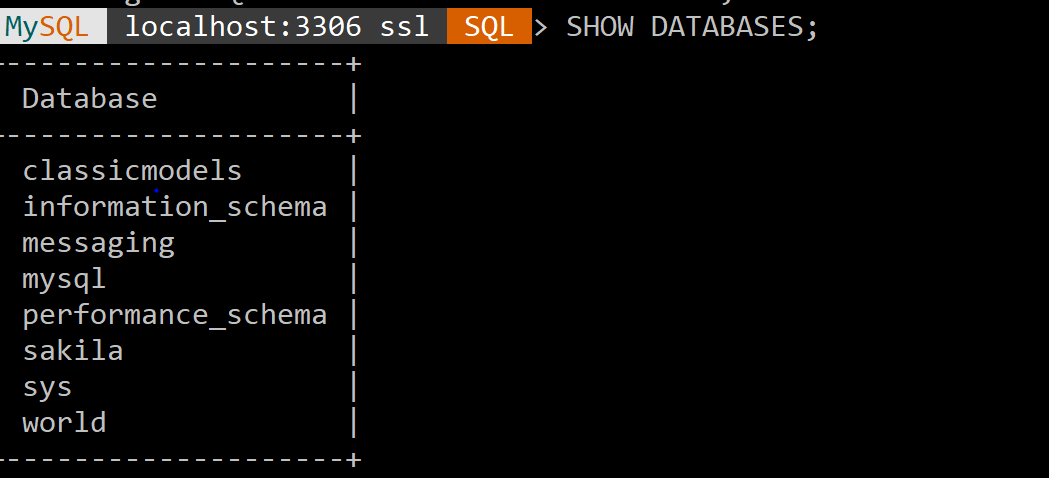
Database Name: messaging

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CREATE DATABASE IF NOT EXISTS messaging;

/\* Use the new Messaging database that was created. \*/

USE messaging;



/\* =========================

Create the Person table.

Table Name: person

Primary Key: person\_id

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CREATE TABLE person (

person\_id INT(8) NOT NULL auto\_increment,

first\_name VARCHAR(25) NOT NULL,

last\_name VARCHAR(25) NOT NULL,

PRIMARY KEY (person\_id)

) AUTO\_INCREMENT=1;

/\* =========================

Create the Contact List table.

Table Name: contact\_list

Primary Key: connection\_id

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CREATE TABLE contact\_list (

connection\_id INT(8) NOT NULL auto\_increment,

person\_id INT(8) NOT NULL,

contact\_id INT(8) NOT NULL,

PRIMARY KEY (connection\_id)

) AUTO\_INCREMENT=1;

/\* =========================

Create the Messages table.

Table Name: message

Primary Key: message\_id

========================= \*/

CREATE TABLE message (

message\_id INT(8) NOT NULL auto\_increment,

sender\_id INT(8) NOT NULL,

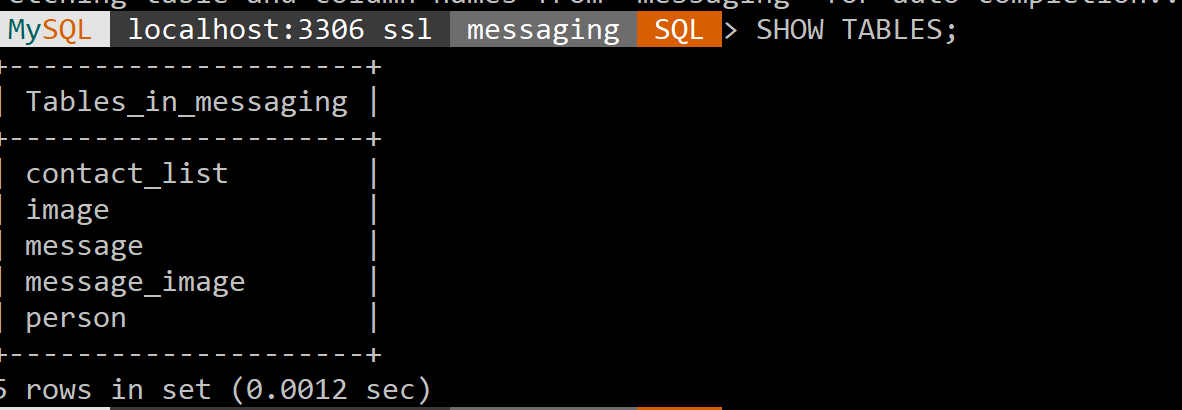
receiver\_id INT(8) NOT NULL,

message VARCHAR(255) NOT NULL,

send\_datetime DATETIME NOT NULL,

PRIMARY KEY (message\_id)

) AUTO\_INCREMENT=1;



/\* =========================

Populate the Person table.

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INSERT INTO person (first\_name, last\_name)

VALUES

("Brian", "Toulouse", "Male"),

("Andrea", "Toulouse", “Female"),

("Justin", "Toulouse", "Male"),

("Michael", "Phelps", "Male"),

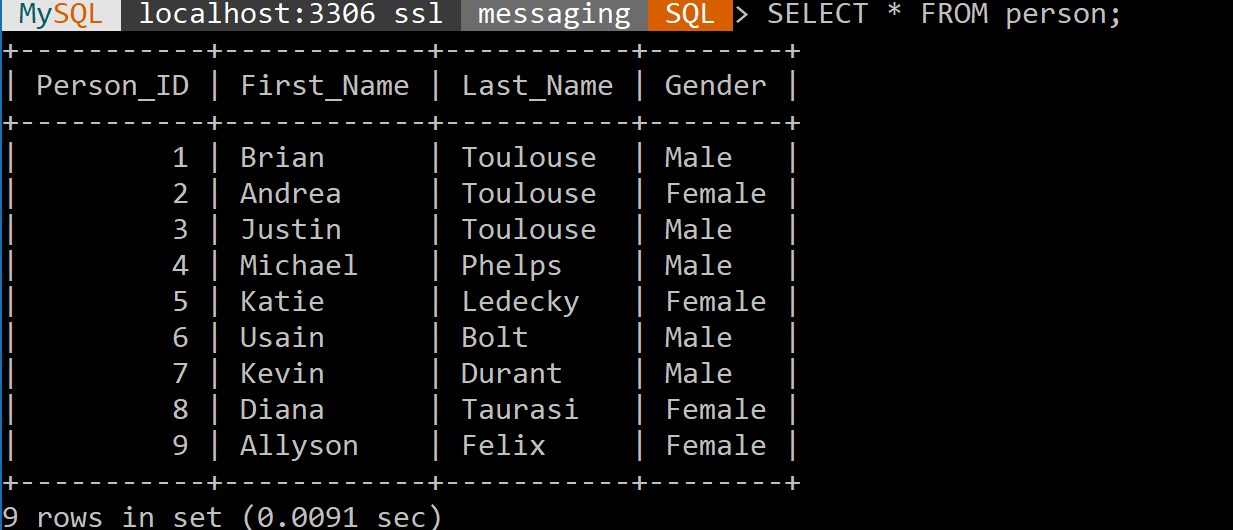
("Katie", "Ledecky", "Female"),

("Usain", "Bolt", "Male"),

("Kevin", "Durant", "Male"),

("Diana", "Taurasi", "Female"),

("Allyson", "Felix", "Female");



/\* =========================

Populate the Contact List table.

========================= \*/

INSERT INTO contact\_list (person\_id, contact\_id)

VALUES

(4, 2, “N”),

(4, 6, “N”),

(4, 9, “N”),

(4, 7, “N”),

(5, 4, “Y”),

(5, 6, “N”),

(5, 9, “N”),

(6, 4, “Y”),

(6, 9, “N”),

(9, 5, “N”),

(9, 8, “N”),

(5, 4, “Y”),

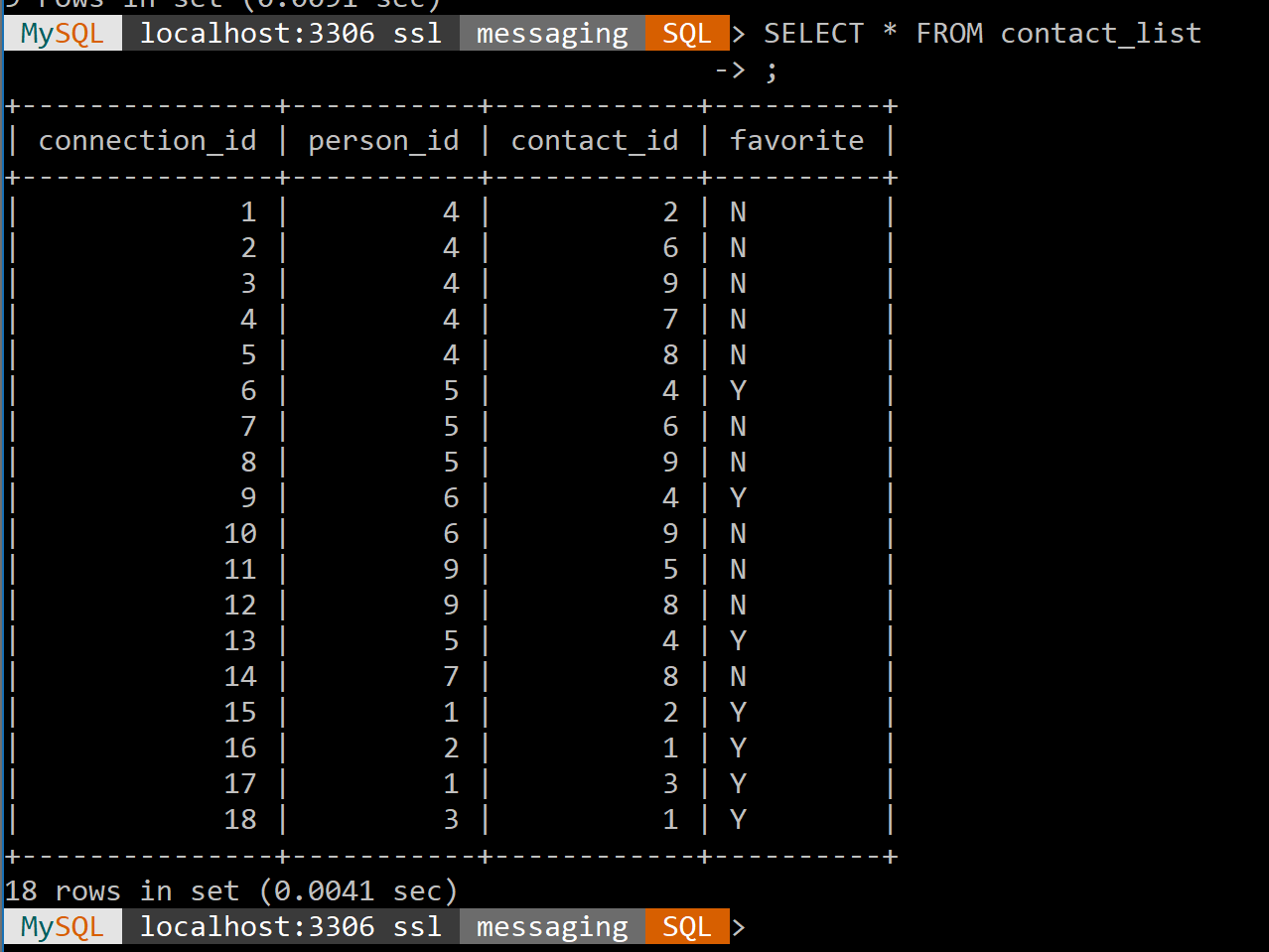
(7, 8, “N”),

(1, 2, “Y”),

(2, 1, “Y”),

(1, 3, “Y”),

(3, 1, “Y”);



/\* =========================

Populate the Message table.

========================= \*/

INSERT INTO message (sender\_id, receiver\_id, message, send\_datetime)

VALUES

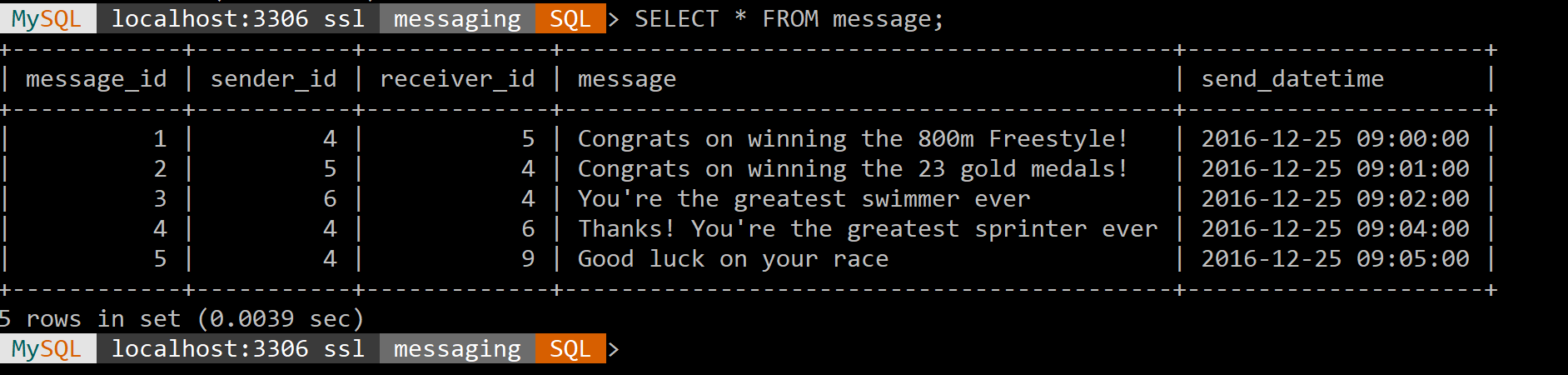
(4, 5, "Congrats on winning the 800m Freestyle!", "2016-12-25 09:00:00"),

(5, 4, "Congrats on winning 23 gold medals!", "2016-12-25 09:01:00"),

(6, 4, "You're the greatest swimmer ever", "2016-12-25 09:02:00"),

(4, 6, "Thanks! You're the greatest sprinter ever", "2016-12-25 09:04:00"),

(4, 9, "Good luck on your race", "2016-12-25 09:05:00");



/\* =========================

Create the Image table.

Table Name: image

Primary Key: image\_id

========================= \*/

CREATE TABLE image (

image\_id INT(8) NOT NULL auto\_increment,

image\_name VARCHAR(50) NOT NULL,

image\_location VARCHAR(250) NOT NULL,

PRIMARY KEY (image\_id)

) AUTO\_INCREMENT=1;

/\* =========================

Populate the image table.

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INSERT INTO image (image\_name, image\_location)

VALUES

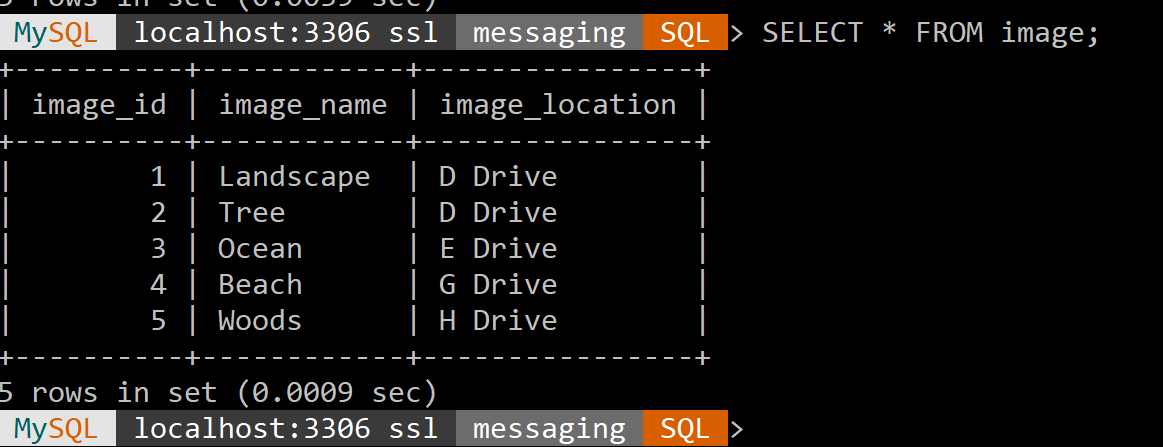
(“Landscape”, “D Drive”),

(“Tree”, “D Drive”),

(“Ocean”, “E Drive”),

(“Beach”, “G Drive”),

(“Woods”, “H Drive”);



/\* =========================

Create the Message-Image intersection table.

Table Name: message\_image

Primary Key: message\_id, image\_id

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CREATE TABLE message\_image (

message\_id INT(8) NOT NULL,

image\_id INT(8) NOT NULL

);

/\* =========================

Populate the Message\_image table.

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INSERT INTO message\_image (message\_id, image\_id)

VALUES

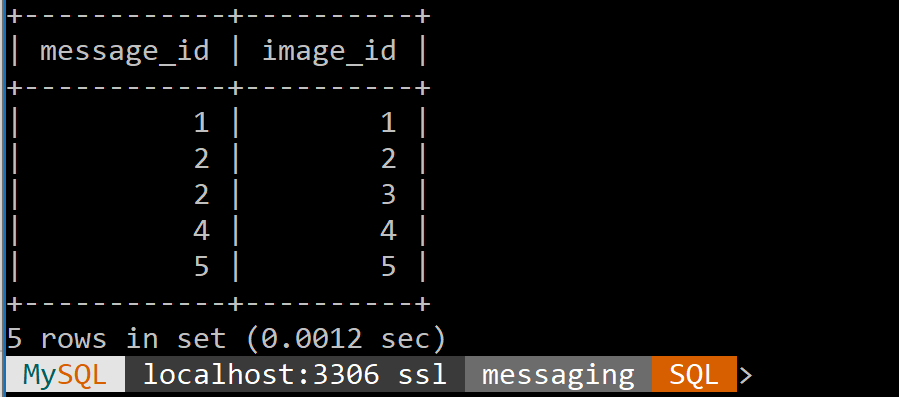
(1,1),

(2,2),

(3,3),

(4,4),

(5,5);



/\* =========================

Selects the info to be displayed on the table

States which tables to be used

This joins the different tables to be able to share information

========================= \*/

SELECT

psender.first\_name as "Sender\'s first name", psender.last\_name as "Sender\'s last name",

preciever.first\_name as "Receiver\'s first name", preciever.last\_name as "Receiver\'s last name",

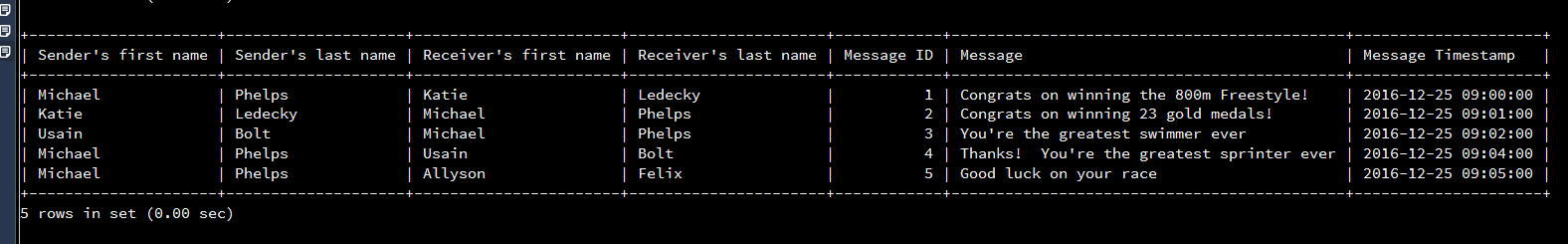
message.message\_id as "Message ID", message.message as "Message", message.send\_datetime as "Message Timestamp"

FROM

Message

JOIN person psender ON psender.person\_id = message.sender\_id

JOIN person preciever ON preciever.person\_id = message.receiver\_id;



/\* =========================

Selects the info to be displayed on the table

States which tables to be used

This statement sets the constraints for the information being pulled, and what order it will be displayed

========================= \*/

SELECT

COUNT(message.message) AS "Count of Messages",

person.person\_id AS "Person ID", person.first\_name AS "First Name", person.last\_name AS "Last Name"

FROM

person, message

WHERE

person.person\_id = message.sender\_id

GROUP BY person.person\_id;

/\* =========================

Selects the info to be displayed on the table

States which tables to be used

This joins the different tables to be able to share information

========================= \*/

SELECT

COUNT(message.message) AS "Count of Messages",

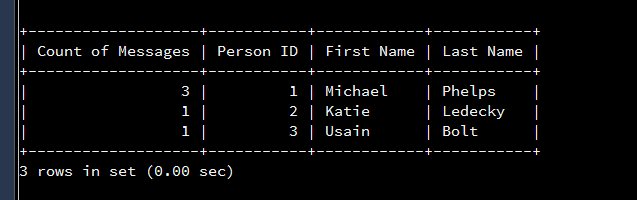
person.person\_id AS "Person ID", person.first\_name AS "First Name", person.last\_name AS "Last Name"

FROM

person, message

WHERE

person.person\_id = message.sender\_id

GROUP BY person.person\_id; 

SELECT

message.message\_id AS "Message ID", message.message AS "Message", message.send\_datetime "Time Sent",

image.image\_name AS "Image Name", image.image\_location AS "Image Location"

FROM

Message

INNER JOIN message\_image ON message.message\_id = message\_image.message\_id

INNER JOIN image ON image.image\_id = message\_image.image\_id

