**Artifact Three**

Jeremy Huesman

Virtual Machine built, mysql installed and databases created

Text

Description automatically generated

show databases;

use messaging;

show tables;

Select \* from person;

#---------------------------------------------------------------

#Orginal Table

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

VALUES('1','Michael, Phelps');

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

VALUES('2','Katie, Ledecky');

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

VALUES('3','Usain, Bolt');

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

VALUES('4','Allyson, Felix');

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

VALUES('5','Kevin, Durant');

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

VALUES('6','Diana, Taurasi');

#Additions-------------------------------------------------------

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

VALUES('7','Jeremy, Huesman');

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

VALUES('8','Svetlana, Romashina');

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

VALUES('9','Gao','Ling');

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

VALUES('10','Teresa','Edwards');

select \* from person;

#---------------------------------------------------------------

#Task Two

ALTER TABLE person

ADD (Phone\_Number varchar(25) NOT NULL);

select \* from person;

#---------------------------------------------------------------

#Task Three

UPDATE person

SET gender = 'M'

WHERE person\_id = 1;

SELECT \* FROM person;

UPDATE person

SET gender = 'F'

WHERE person\_id = 2;

UPDATE person

SET gender = 'M'

WHERE person\_id = 3;

UPDATE person

SET gender = 'F'

WHERE person\_id = 4;

UPDATE person

SET gender = 'M'

WHERE person\_id = 5;

UPDATE person

SET gender = 'F'

WHERE person\_id = 6;

UPDATE person

SET gender = 'M'

WHERE person\_id = 7;

UPDATE person

SET gender = 'F'

WHERE person\_id = 8;

UPDATE person

SET gender = 'F'

WHERE person\_id = 9;

UPDATE person

SET gender = 'F'

WHERE person\_id = 10;

SELECT \* FROM person;

#-------------------------------------------------------------

#Task 4

SELECT \* FROM person;

DELETE FROM person WHERE first\_name = "Diana" AND last\_name = "Taurasi";

SELECT \* FROM person;

#-------------------------------------------------------------

#Task 5

SELECT \* FROM contact\_list;

ALTER TABLE contact\_list ADD favorite VARCHAR(10) default NOT NULL;

#-------------------------------------------------------------

#Task 6

UPDATE contact\_list

SET favorite = 'y'

WHERE contact\_id = 1;

#--------------------------------------------------------------

#Task 7

UPDATE contact\_list

SET favorite = 'n'

WHERE contact\_id != 1;

UPDATE contact\_list

SET favorite = "n"

WHERE person\_id < 2;

SELECT \* FROM contact\_list;

#--------------------------------------------------------------

#Task 8

INSERT INTO contact\_list (

connection\_id, person\_id, contact\_id, favorite)

VALUES (15, "7", "4", "n");

SELECT \* FROM contact\_list;

INSERT INTO contact\_list (

connection\_id, person\_id, contact\_id, favorite)

VALUES (16, "5", "7", "y");

INSERT INTO contact\_list (

connection\_id, person\_id, contact\_id, favorite)

VALUES (17, "2", "7", "n");

SELECT \* FROM contact\_list;

#----------------------------------------------------------------

#Task 9

CREATE TABLE image (

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

image\_name VARCHAR(50) NOT NULL,

image\_location VARCHAR(250) NOT NULL,

PRIMARY KEY (image\_id)

) AUTO\_INCREMENT=1;

SELECT \* FROM image;

#----------------------------------------------------------------

#Task 10

CREATE TABLE message\_image (

message\_id INT(8) UNSIGNED NOT NULL,

image\_id INT(8) UNSIGNED NOT NULL,

PRIMARY KEY(message\_id, image\_id)

);

SELECT \* FROM message\_image;

show columns from message\_image;

#-------------------------------------------------------------------

#Task 11

INSERT INTO image (

image\_id, image\_name, image\_location)

VALUES (1, "picture 1", "NY");

SELECT \* FROM image;

INSERT INTO image (

image\_id, image\_name, image\_location)

VALUES (2, "picture 2", "VT");

INSERT INTO image (

image\_id, image\_name, image\_location)

VALUES (3, "picture 3", "MA");

INSERT INTO image (

image\_id, image\_name, image\_location)

VALUES (4, "picture 4", "NC");

INSERT INTO image (

image\_id, image\_name, image\_location)

VALUES (5, "picture 5", "FL");

#---------------------------------------------------------------------

#Task 12

SELECT \* FROM person;

SELECT \* FROM message;

INSERT INTO message\_image (

message\_id, image\_id)

VALUES (1, 1);

INSERT INTO message\_image (

message\_id, image\_id)

VALUES (2, 4);

INSERT INTO message\_image (

message\_id, image\_id)

VALUES (7, 2);

INSERT INTO message\_image (

message\_id, image\_id)

VALUES (5, 5);

INSERT INTO message\_image (

message\_id, image\_id)

VALUES (1, 4);

SELECT \* FROM message\_image;

#-----------------------------------------------------------------------

#Task 13

#You need to join on person twice. One join to get the sender information, and one the receiver.

#As you are using the same table twice, you will need to alias it in the query.

SELECT

sender.first\_name AS "Sender's first name",

sender.last\_name AS "Sender's last name",

receiver.first\_name AS "Receiver's first name",

receiver.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 AS sender ON message.sender\_id = sender.person\_id

JOIN person AS receiver ON message.receiver\_id = receiver.person\_id

WHERE message.sender\_id = 1;

#----------------------------------------------------------------------

#Task 14

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 message

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

WHERE message\_id > 0

GROUP BY person.person\_id;

#-----------------------------------------------------------------------

#Task 15

SELECT

message.message\_id AS "Message ID",

message.message AS "Message",

message.send\_datetime AS "Message Timestamp",

image.image\_name AS "First Image Name",

image.image\_location AS "First Image Location"

FROM message

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