**One Less Crochet**

**Company Overview:**

At One Less Crochet, we believe in the power of creativity and craftsmanship, and we're on a mission to make the world a better place, one stitch at a time. Our carefully curated selection of crochet products showcases the finest and most eco-friendly materials available. From organic cotton and bamboo yarns to recycled fibers, we are committed to reducing our carbon footprint and promoting eco-conscious choices in the crafting community.

* **Craft ID:** A unique identifier assigned to every "Craft" product for inventory and tracking purposes.
* **Craft Name:** The name or title given to the specific "Craft" product, helping customers easily identify and refer to it.
* **Selling Price:** The retail price at which the "Craft" product is offered to customers.
* **Manufacturing Cost:** The total cost incurred during the production of the "Craft" item, including materials, labor, and other production expenses.
* **Size:** The dimensions or measurements of the "Craft" product, providing customers with information about its physical size.
* **Color:** The color or color variants available for the "Craft" product, allowing customers to select their preferred option.
* **Type:** The size variations available for the "Craft" product. The values can be XS, S, M, L, and XL, indicating different size options suitable for various crafting projects.
* **Fit:** If applicable, the "Fit" attribute indicates the compatibility of the "Craft" product with specific crafting materials or other accessories.
* **Description:** A detailed and engaging description of the "Craft" product, highlighting its features, benefits, and eco-friendly nature. This description would entice customers to choose "Craft" and provide essential information about its use and purpose in crafting projects.

By carefully defining these attributes for the "Craft" product, One Less Craft can efficiently manage its inventory, assist customers in making informed decisions, and showcase the product's unique selling points, ultimately enhancing the overall customer experience.

Top of Form

**Product: Crafts**

**Product Attributes:**

|  |  |
| --- | --- |
| **Attributes** | **Sample Data** |
| Craft ID | 100001 |
| Craft Name | Cushion Macrame |
| Selling Price | 43.97 |
| Manufacturing Cost | 15.64 |
| Size | M |
| Color | Beige |
| Type | Macrame |
| Fit | Null |
| Description | This beautiful woven cushion is ideal to add some boho chic to your home. Tied using our most sustainable, recycled cotton yarn Nova Vita 4 in a calming neutral cream shade. |

**One Less Craft**

347 Kings Street

Winnipeg, AB T2H 0K8

647-860-1654

**Customer Sales Invoice**

**Customer ID**: 000008 **Order ID**: 1023

**Customer Name**: Sophia Wilson **Order Date**: 23/06/2024

**Customer Address**: 345 Oak Ave **Associate ID**: 208

Winnipeg, AB T2H 0K8 **Associate Name**: John Doe

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
| **Product ID** | **Name** | **Size** | **Fit** | **Color** | **Description** | **Qty** | **Unit Price** | **Extended Price** |
| 319 | Candle Holder | M | Standard | Metallic | Decorative candle holder for ambiance | 2 | $ 22.25 | $ 44.50 |
| 320 | Crochet Hat | M | One Size | Brown | Cozy crochet hat for colder days | 5 | $ 16.75 | $ 83.75 |
| 306 | Handmade Earrings | S | Standard | Multicolor | Self-Propelled Gas Push Mower | 2 | $ 19.99 | $ 39.98 |
| 302 | Crochet Blanket | XL | Oversized | White | Cozy blanket for any room | 1 | $ 89.50 | $ 89.50 |
| 329 | Braided Bracelet | S | Standard | Brown | Bracelet with intricate braided pattern | 1 | $ 10.75 | $ 10.75 |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | **Sub-total** | $ 268.48 |
|  |  |  |  |  |  |  | **Tax** | $ 40.27 |
|  |  |  |  |  |  | **Invoice Total** | | $ 308.75 |

**Entity Relationship Diagram**

**Many To Many Relationships**

A black screen with white text

Description automatically generated

**Entity Relationship Diagram (Many to Many relationships resolved)**

A diagram of a computer system

Description automatically generated with medium confidence

**ERD Language**

Each EMPLOYEE *must* work for zero or one DEPARTMENT.

Each DEPARTMENT *may* employee zero, one or more EMPLOYEEs.

Each EMPLOYEE *may* supervise zero or one DEPARTMENT.

Each DEPARTMENT *may* be supervised by zero or one EMPLOYEE.

Each EMPLOYEE (Mgr. role) may supervise zero, one or more EMPLOYEEs (Emp role).

Each EMPLOYEE (Emp role) may be supervised by zero or one EMPLOYEE (Mgr. role).

Each EMPLOYEE *must* work for one and only one STORE.

Each STORE *must* employee one or more EMPLOYEEs.

Each EMPLOYEE *may* supervise one and only one STORE.

Each STORE *may* be supervised by one and only one EMPLOYEE.

Each EMPLOYEE *may* be included in zero, one or more ORDERs.

Each ORDER *must* have one and only one EMPLOYEE.

Each EMPLOYEE *may* hold one and only one JOB.

Each JOB *may* be held by zero, one or more EMPLOYEEs.

Each EMPLOYEE *may* serve zero, one or more CUSTOMERs.

Each CUSTOMER *may* be served by zero or one EMPLOYEE.

Each CUSTOMER *must* have one and only one ZIP.

Each CUSTOMER *may* prefer zero or one CRAFT.

Each CRAFT *may* be preferred by zero, one or more CUSTOMERs.

Each ZIP *may* belong to zero, one or more CUSTOMERs.

Each ZIP *may* belong to zero, one or more WAREHOUSEs.

Each WAREHOUSE *must* have one and only one ZIP.

Each ZIP *may* belong to zero, one or more STOREs.

Each STORE *must* have one and only one ZIP.

Each CUSTOMER *may* be included in zero, one or more ORDERs.

Each ORDER *must* have one and only one CUSTOMER.

Each ORDER *may* have zero, one or more ORDER\_CRAFTs.

Each ORDER\_CRAFT *must* be for one and only one ORDER.

Each CRAFT *may* have zero, one or more ORDER\_CRAFTs.

Each ORDER\_CRAFT *must* be for one and only one CRAFT.

Each CRAFT *may* have zero, one or more CRAFT\_YARNs.

Each CRAFT\_YARN *must* be for one and only one CRAFT.

Each YARN *may* have zero, one or more CRAFT\_YARNs.

Each CRAFT\_YARN *must* be for one and only one YARN.

Each CRAFT *may* have zero, one or more INVENTORYs.

Each INVENTORY *must* be for one and only one CRAFT.

Each WAREHOUSE *may* have zero, one or more INVENTORYs.

Each INVENTORY *must* be for one and only one WAREHOUSE.

Each WAREHOUSE *may* have zero one or more WAREHOUSE\_STOREs.

Each WAREHOUSE\_STORE *must* be for one and only one WAREHOUSE.

Each STORE *may* have zero one or more WAREHOUSE\_STOREs.

Each WAREHOUSE\_STORE *must* be for one and only one STORE.

Each YARN *may* be supplied by zero, one or more YARN\_SUPPLIERs.

Each YARN\_SUPPLIER *must* be for one and only one YARN.

Each SUPPLIER *may* be supply zero, one or more YARN\_SUPPLIER.

Each YARN\_SUPPLIER *must* be for one and only one SUPPLIER.

**Relational Data Model (Physical DM)**









**DDL Statements**

CREATE SCHEMA one\_less\_craft;

-- -------------------------------------------------------------------------

TABLES

-- -------------------------------------------------------------------------

CREATE TABLE crafts (

craft\_id NUMERIC(6,0) NOT NULL,

craft\_name VARCHAR(20) NOT NULL,

selling\_price NUMERIC(9,2) NOT NULL,

manufacturing\_cost NUMERIC(9,2) NOT NULL,

size VARCHAR(4) NOT NULL,

color VARCHAR(20),

craft\_type VARCHAR(20) NOT NULL,

fit VARCHAR(20) NOT NULL,

craft\_description VARCHAR(100));

-- Primary Key

ALTER TABLE crafts

ADD CONSTRAINT crafts\_craft\_id\_pk

PRIMARY KEY (craft\_id);

-- Constraints

ALTER TABLE crafts

ADD CONSTRAINT crafts\_selling\_price\_gt\_manufacturing\_cost

CHECK (selling\_price > manufacturing\_cost);

ALTER TABLE crafts

ADD CONSTRAINT crafts\_size

CHECK (size IN ('xs', 's', 'm', 'l', 'xl'));

-- -------------------------------------------------------------------------

CREATE TABLE customers (

customer\_id NUMERIC(6,0) NOT NULL,

first\_name VARCHAR(20) NOT NULL,

last\_name VARCHAR(20) NOT NULL,

date\_of\_birth DATE NOT NULL,

email VARCHAR(50) NOT NULL,

gender CHAR(1),

contact\_number VARCHAR(10) NOT NULL,

address VARCHAR(50) NOT NULL,

shipping\_address VARCHAR(50) NOT NULL,

billing\_address VARCHAR(50),

favorite\_craft NUMERIC(6,0),

zip\_code VARCHAR(10) NOT NULL,

preferred\_sales\_rep NUMERIC(6,0));

-- Primary Key

ALTER TABLE customers

ADD CONSTRAINT customers\_customer\_id\_pk

PRIMARY KEY (customer\_id);

-- Unique Keys

ALTER TABLE customers

ADD CONSTRAINT customers\_email\_uk

UNIQUE KEY (email);

ALTER TABLE customers

ADD CONSTRAINT customers\_contact\_number\_uk

UNIQUE KEY (contact\_number);

-- Constraints

ALTER TABLE customers

ADD CONSTRAINT customers\_email

CHECK (email LIKE '%@%.%');

ALTER TABLE customers

ADD CONSTRAINT customer\_gender

CHECK (gender IN ('M', 'F'));

-- -------------------------------------------------------------------------

CREATE TABLE departments (

department\_id NUMERIC(6,0) NOT NULL,

department\_name VARCHAR(30) NOT NULL,

department\_phone VARCHAR(10) NOT NULL,

department\_email VARCHAR(50) NOT NULL,

department\_budget NUMERIC(9,2) NOT NULL,

department\_description VARCHAR(100),

manager\_id NUMERIC(6,0));

-- Primary Key

ALTER TABLE departments

ADD CONSTRAINT departments\_department\_id\_pk

PRIMARY KEY (department\_id);

-- Unique Keys

ALTER TABLE departments

ADD CONSTRAINT departments\_department\_name\_uk

UNIQUE (department\_name);

ALTER TABLE departments

ADD CONSTRAINT departments\_department\_phone\_uk

UNIQUE (department\_phone);

ALTER TABLE departments

ADD CONSTRAINT departments\_department\_email\_uk

UNIQUE (department\_email);

-- Constraints

ALTER TABLE departments

ADD CONSTRAINT departments\_department\_email

CHECK (department\_email LIKE '%@%.%');

ALTER TABLE departments

ADD CONSTRAINT departments\_department\_budget

CHECK (department\_budget >= 100000 AND department\_budget <= 1000000);

-- -------------------------------------------------------------------------

CREATE TABLE employees (

employee\_id NUMERIC(6,0) NOT NULL,

first\_name VARCHAR(20) NOT NULL,

last\_name VARCHAR(20) NOT NULL,

date\_of\_birth DATE NOT NULL,

address VARCHAR(50),

contact\_number NUMERIC(10,0) NOT NULL,

email VARCHAR(50) NOT NULL,

hire\_date DATE DEFAULT (CURRENT\_DATE),

salary NUMERIC(9,2) NOT NULL,

emp\_status VARCHAR(15) NOT NULL,

manager\_id NUMERIC(6,0),

store\_id NUMERIC(6,0),

department\_id NUMERIC(6,0),

job\_id NUMERIC(6,0));

-- Primary Key

ALTER TABLE employees

ADD CONSTRAINT employees\_employee\_id\_pk

PRIMARY KEY (employee\_id);

-- Unique Key

ALTER TABLE employees

ADD CONSTRAINT employees\_contact\_number\_uk

UNIQUE KEY (contact\_number);

ALTER TABLE employees

ADD CONSTRAINT employees\_email\_uk

UNIQUE KEY (email);

-- Constraints

ALTER TABLE employees

ADD CONSTRAINT employees\_salary\_range

CHECK (salary >= 20000 AND salary <= 200000);

ALTER TABLE employees

ADD CONSTRAINT employees\_emp\_status

CHECK (emp\_status IN ('Active', 'Inactive', 'Retired', 'On Vacation'));

ALTER TABLE employees

ADD CONSTRAINT employees\_hire\_date\_gt\_date\_of\_birth

CHECK (hire\_date > date\_of\_birth);

ALTER TABLE employees

ADD CONSTRAINT employees\_email

CHECK (email LIKE '%@%.%');

-- -------------------------------------------------------------------------

CREATE TABLE jobs (

job\_id NUMERIC(6,0) NOT NULL,

job\_title VARCHAR(30) NOT NULL);

-- Primary Key

ALTER TABLE jobs

ADD CONSTRAINT jobs\_job\_id\_pk

PRIMARY KEY (job\_id);

-- -------------------------------------------------------------------------

CREATE TABLE orders (

order\_id NUMERIC(6,0) NOT NULL,

order\_date DATE NOT NULL DEFAULT (CURRENT\_DATE),

shipped\_date DATE NOT NULL,

shipped\_status VARCHAR(15) NOT NULL,

customer\_id NUMERIC(6,0) NOT NULL,

employee\_id NUMERIC(6,0) NOT NULL,

return\_period VARCHAR(30) NOT NULL);

-- Primary Key

ALTER TABLE orders

ADD CONSTRAINT orders\_order\_id\_pk

PRIMARY KEY (order\_id);

-- Constraints

ALTER TABLE orders

ADD CONSTRAINT orders\_order\_date\_lt\_shipped\_date

CHECK (order\_date <= shipped\_date);

-- -------------------------------------------------------------------------

CREATE TABLE stores (

store\_id NUMERIC(6,0) NOT NULL,

store\_name VARCHAR(20) NOT NULL,

phone\_number VARCHAR(10) NOT NULL,

email VARCHAR(30) NOT NULL,

website VARCHAR(30),

address VARCHAR(50) NOT NULL,

zip\_code VARCHAR(10) NOT NULL,

manager\_id NUMERIC(6,0));

-- Primary Key

ALTER TABLE stores

ADD CONSTRAINT stores\_store\_id\_pk

PRIMARY KEY (store\_id);

-- Unique Keys

ALTER TABLE stores

ADD CONSTRAINT stores\_phone\_number\_uk

UNIQUE KEY (phone\_number);

ALTER TABLE stores

ADD CONSTRAINT stores\_email\_uk

UNIQUE KEY (email);

-- Constraints

ALTER TABLE stores

ADD CONSTRAINT stores\_email

CHECK (email LIKE '%@%.%');

-- -------------------------------------------------------------------------

CREATE TABLE suppliers (

supplier\_id NUMERIC(6,0) NOT NULL,

supplier\_name VARCHAR(24) NOT NULL,

supplier\_contact VARCHAR (10) NOT NULL,

supplier\_address VARCHAR (50) NOT NULL);

-- Primary Key

ALTER TABLE suppliers

ADD CONSTRAINT suppliers\_supplier\_id\_pk

PRIMARY KEY (supplier\_id);

-- -------------------------------------------------------------------------

CREATE TABLE warehouses (

warehouse\_id NUMERIC(6,0) NOT NULL,

warehouse\_name VARCHAR(30) NOT NULL,

address VARCHAR(50) NOT NULL,

capacity NUMERIC(8,2) NOT NULL,

zip\_code VARCHAR(10) NOT NULL);

-- Primary Key

ALTER TABLE warehouses

ADD CONSTRAINT warehouses\_warehouse\_id\_pk

PRIMARY KEY (warehouse\_id);

-- -------------------------------------------------------------------------

CREATE TABLE yarns (

yarn\_id NUMERIC(6,0) NOT NULL,

yarn\_type VARCHAR(15) NOT NULL,

yarn\_weight VARCHAR(15) NOT NULL,

yarn\_color VARCHAR(15) NOT NULL,

yarn\_price NUMERIC(9,2) NOT NULL,

yarn\_quality VARCHAR(20) NOT NULL,

yarn\_description VARCHAR(100));

-- Primary Key

ALTER TABLE yarns

ADD CONSTRAINT yarns\_yarn\_id\_pk

PRIMARY KEY (yarn\_id);

-- Constraints

ALTER TABLE yarns

ADD CONSTRAINT yarns\_\_yarn\_quality

CHECK (yarn\_quality IN ('common', 'rare', 'premium', 'custom'));

ALTER TABLE yarns

ADD CONSTRAINT yarns\_yarn\_price

CHECK (yarn\_price > 0);

-- -------------------------------------------------------------------------

CREATE TABLE zips (

zip\_code VARCHAR(10) NOT NULL,

city VARCHAR(20) NOT NULL,

province VARCHAR(20) NOT NULL,

country VARCHAR(20) NOT NULL);

-- Primary Key

ALTER TABLE zips

ADD CONSTRAINT zips\_zip\_code\_pk

PRIMARY KEY (zip\_code);

-- -------------------------------------------------------------------------

INSTERSECTION TABLES

-- -------------------------------------------------------------------------

CREATE TABLE inventories (

warehouse\_id NUMERIC(6,0) NOT NULL,

craft\_id NUMERIC(6,0) NOT NULL,

quantity NUMERIC(8,0) NOT NULL,

update\_date DATE NOT NULL DEFAULT (CURRENT\_DATE));

-- Primary Key

ALTER TABLE inventories

ADD CONSTRAINT inventories\_warehouse\_id\_craft\_id\_pk

PRIMARY KEY (warehouse\_id, craft\_id);

-- Foreign Key

ALTER TABLE inventories

ADD CONSTRAINT inventories\_warehouse\_id\_fk

FOREIGN KEY (warehouse\_id)

REFERENCES warehouses (warehouse\_id);

ALTER TABLE inventories

ADD CONSTRAINT inventories\_craft\_id\_fk

FOREIGN KEY (craft\_id)

REFERENCES crafts (craft\_id);

-- Constraints

ALTER TABLE inventories

ADD CONSTRAINT inventories\_quantity

CHECK (quantity > 0);

-- -------------------------------------------------------------------------

CREATE TABLE crafts\_orders (

craft\_id NUMERIC(6,0) NOT NULL,

order\_id NUMERIC(6,0) NOT NULL,

quantity NUMERIC(10,0) NOT NULL);

-- Primary Key

ALTER TABLE crafts\_orders

ADD CONSTRAINT crafts\_orders\_craft\_id\_order\_id\_pk

PRIMARY KEY (craft\_id, order\_id);

-- Foreign Key

ALTER TABLE crafts\_orders

ADD CONSTRAINT crafts\_orders\_craft\_id\_fk

FOREIGN KEY (craft\_id)

REFERENCES crafts (craft\_id);

ALTER TABLE crafts\_orders

ADD CONSTRAINT crafts\_orders\_order\_id\_fk

FOREIGN KEY (order\_id)

REFERENCES orders (order\_id);

-- -------------------------------------------------------------------------

CREATE TABLE crafts\_yarns (

craft\_id NUMERIC(6,0) NOT NULL,

yarn\_id NUMERIC(6,0) NOT NULL,

quantity NUMERIC(6,0));

-- Primary Keys

ALTER TABLE crafts\_yarns

ADD CONSTRAINT crafts\_yarns\_craft\_id\_yarn\_id\_pk

PRIMARY KEY (craft\_id, yarn\_id);

-- Foreign Keys

ALTER TABLE crafts\_yarns

ADD CONSTRAINT crafts\_yarns\_craft\_id\_fk

FOREIGN KEY (craft\_id)

REFERENCES crafts (craft\_id);

ALTER TABLE crafts\_yarns

ADD CONSTRAINT crafts\_yarns\_yarn\_id\_fk

FOREIGN KEY (yarn\_id)

REFERENCES yarns (yarn\_id);

-- Constraints

ALTER TABLE crafts\_yarns

ADD CONSTRAINT crafts\_yarns\_quantity

CHECK (quantity > 0);

-- -------------------------------------------------------------------------

CREATE TABLE warehouses\_stores (

warehouse\_id NUMERIC(6,0) NOT NULL,

store\_id NUMERIC(6,0) NOT NULL);

-- Primary Keys

ALTER TABLE warehouses\_stores

ADD CONSTRAINT warehouses\_stores\_warehouse\_id\_store\_id\_pk

PRIMARY KEY (warehouse\_id, store\_id);

-- Foreign Keys

ALTER TABLE warehouses\_stores

ADD CONSTRAINT warehouses\_stores\_warehouse\_id\_fk

FOREIGN KEY (warehouse\_id)

REFERENCES warehouses (warehouse\_id);

ALTER TABLE warehouses\_stores

ADD CONSTRAINT warehouses\_stores\_store\_id\_fk

FOREIGN KEY (store\_id)

REFERENCES stores (store\_id);

-- -------------------------------------------------------------------------

CREATE TABLE yarns\_suppliers (

yarn\_id NUMERIC(6,0) NOT NULL,

supplier\_id NUMERIC(6,0) NOT NULL);

-- Primary Key

ALTER TABLE yarns\_suppliers

ADD CONSTRAINT yarns\_suppliers\_yarn\_id\_supplier\_id\_pk

PRIMARY KEY (yarn\_id, supplier\_id);

-- Foreign Key

ALTER TABLE yarns\_suppliers

ADD CONSTRAINT yarns\_suppliers\_yarn\_id\_fk

FOREIGN KEY (yarn\_id)

REFERENCES yarns (yarn\_id);

ALTER TABLE yarns\_suppliers

ADD CONSTRAINT yarns\_suppliers\_supplier\_id\_fk

FOREIGN KEY (supplier\_id)

REFERENCES suppliers (supplier\_id);

-- -------------------------------------------------------------------------

FOREIGN KEYS

-- -------------------------------------------------------------------------

CUSTOMERS

-- FOREIGN Keys

ALTER TABLE customers

ADD CONSTRAINT customers\_favorite\_craft\_fk

FOREIGN KEY (favorite\_craft)

REFERENCES crafts (craft\_id);

ALTER TABLE customers

ADD CONSTRAINT customers\_zip\_code\_fk

FOREIGN KEY (zip\_code)

REFERENCES zips (zip\_code);

ALTER TABLE customers

ADD CONSTRAINT customers\_preferred\_sales\_rep\_fk

FOREIGN KEY (preferred\_sales\_rep)

REFERENCES employees (employee\_id);

-- -------------------------------------------------------------------------

DEPARTMENTS

-- Foreign Key

ALTER TABLE departments

ADD CONSTRAINT departments\_manager\_id\_fk

FOREIGN KEY (manager\_id)

REFERENCES employees (employee\_id);

-- -------------------------------------------------------------------------

EMPLOYEES

-- Foreign Key

ALTER TABLE employees

ADD CONSTRAINT employees\_manager\_id\_fk

FOREIGN KEY (manager\_id)

REFERENCES employees (employee\_id);

ALTER TABLE employees

ADD CONSTRAINT employees\_store\_id\_fk

FOREIGN KEY (store\_id)

REFERENCES stores (store\_id);

ALTER TABLE employees

ADD CONSTRAINT employees\_department\_id\_fk

FOREIGN KEY (department\_id)

REFERENCES departments (department\_id);

ALTER TABLE employees

ADD CONSTRAINT employees\_job\_id\_fk

FOREIGN KEY (job\_id)

REFERENCES jobs (job\_id);

-- -------------------------------------------------------------------------

ORDERS

-- Foreign Key

ALTER TABLE orders

ADD CONSTRAINT orders\_customer\_id\_fk

FOREIGN KEY (customer\_id)

REFERENCES customers (customer\_id);

ALTER TABLE orders

ADD CONSTRAINT orders\_employee\_id\_fk

FOREIGN KEY (employee\_id)

REFERENCES employees (employee\_id);

-- -------------------------------------------------------------------------

STORES

-- Foreign Key

ALTER TABLE stores

ADD CONSTRAINT stores\_zip\_code\_fk

FOREIGN KEY (zip\_code)

REFERENCES zips (zip\_code);

ALTER TABLE stores

ADD CONSTRAINT stores\_manager\_id\_fk

FOREIGN KEY (manager\_id)

REFERENCES employees (manager\_id);

-- -------------------------------------------------------------------------

WAREHOUSES

-- Foreign Key

ALTER TABLE warehouses

ADD CONSTRAINT warehouses\_zip\_code\_fk

FOREIGN KEY (zip\_code)

REFERENCES zips (zip\_code);

**Test Cases**

**CUSTOMERS Table**

-- ---------------------------------------------------------------------------

customers\_customer\_id\_pk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

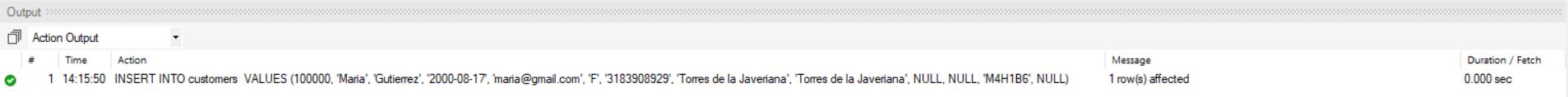
-- Expected results: Insert statement add a row in the customers table

-- Action:

INSERT INTO customers

VALUES (100000, 'Maria', 'Gutierrez', '2000-08-17', 'maria@gmail.com', 'F', '3183908929', 'Torres de la Javeriana', 'Torres de la Javeriana', NULL, NULL, 'M4H1B6', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Insert statement fails to add a row in the customers table

-- Action:

INSERT INTO customers

VALUES (100000, 'John', 'Alexander', '1995-10-17', 'alexander@gmail.com', 'M', '6478601662', '347 Lawson Road', '347 Lawson Road', NULL, NULL, 'M1C2J8', NULL);

-- Test results: Error Code: 1062. Duplicate entry '100000' for key 'customers.PRIMARY'



-- ---------------------------------------------------------------------------

customers\_email\_uk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

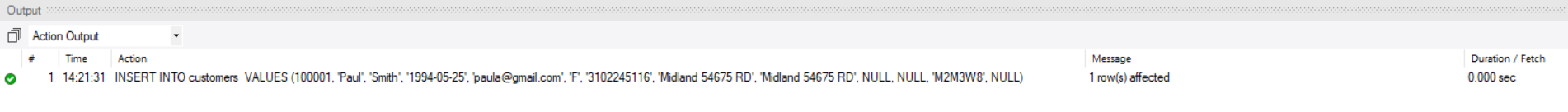
-- Expected results: Insert statement add a row in the customers table

-- Action:

INSERT INTO customers

VALUES (100001, 'Paul', 'Smith', '1994-05-25', 'paula@gmail.com', 'F', '3102245116', 'Midland 54675 RD', 'Midland 54675 RD', NULL, NULL, 'M2M3W8', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the customers table

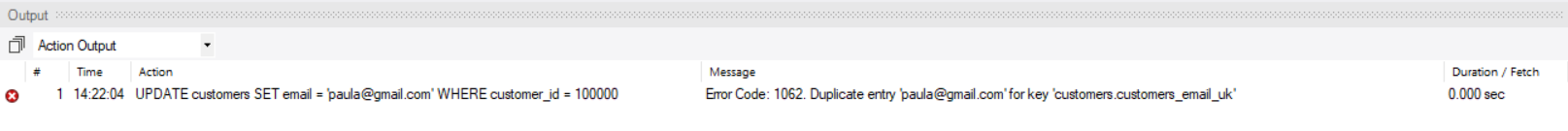
-- Action:

UPDATE customers

SET email = 'paula@gmail.com'

WHERE customer\_id = 100000;

-- Test results: Error Code: 1062. Duplicate entry 'paula@gmail.com' for key 'customers.customers\_email\_uk'



-- ---------------------------------------------------------------------------

customers\_contact\_number\_uk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the customers table

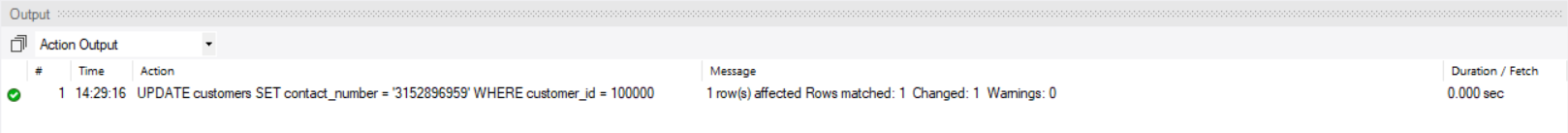
-- Action:

UPDATE customers

SET contact\_number = '3152896959'

WHERE customer\_id = 100000;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the customers table

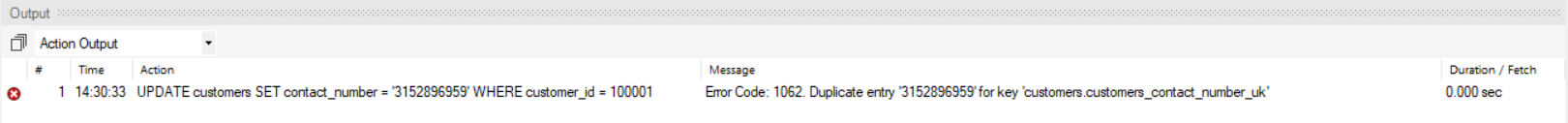
-- Action:

UPDATE customers

SET contact\_number = '3152896959'

WHERE customer\_id = 100001;

-- Test results: Error Code: 1062. Duplicate entry '3152896959' for key 'customers.customers\_contact\_number\_uk'



-- ---------------------------------------------------------------------------

customers\_favorite\_craft\_fk

-- ---------------------------------------------------------------------------

-- IMPORTANT: 000001, 000002, 000003 craft\_id exits in crafts table

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the customers table

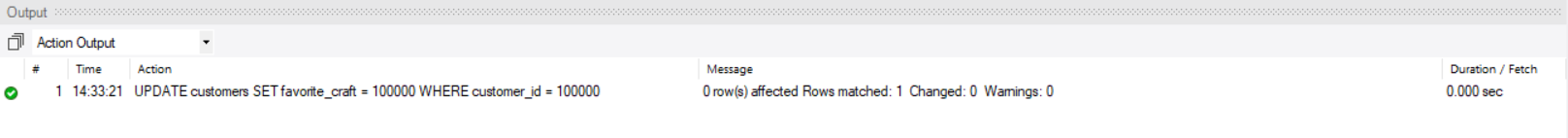
-- Action:

UPDATE customers

SET favorite\_craft = 100000

WHERE customer\_id = 100000;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the customers table

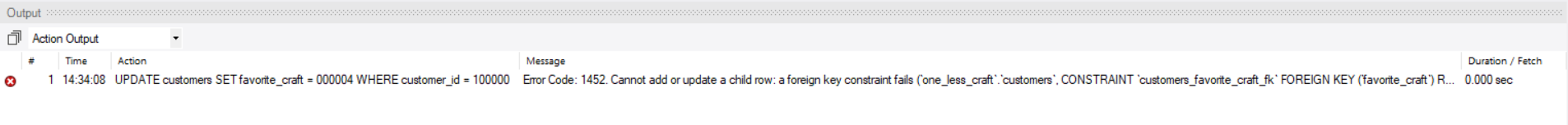
-- Action:

UPDATE customers

SET favorite\_craft = 000004

WHERE customer\_id = 100000;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`customers`, CONSTRAINT `customers\_favorite\_craft\_fk` FOREIGN KEY (`favorite\_craft`) REFERENCES `crafts` (`craft\_id`))



-- ---------------------------------------------------------------------------

customers\_zip\_code\_fk

-- ---------------------------------------------------------------------------

-- IMPORTANT: M1C2J8, M4H1B6, M2M3W8 zip\_code exits in zips table

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the customers table

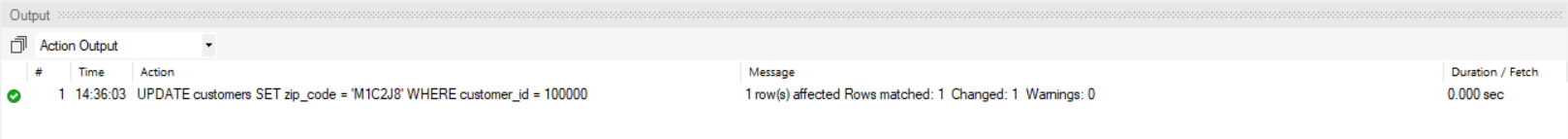
-- Action:

UPDATE customers

SET zip\_code = 'M1C2J8'

WHERE customer\_id = 100000;

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the customers table

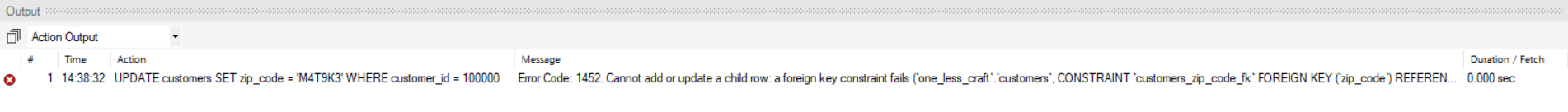
-- Action:

UPDATE customers

SET zip\_code = 'M4T9K3'

WHERE customer\_id = 100000;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`customers`, CONSTRAINT `customers\_zip\_code\_fk` FOREIGN KEY (`zip\_code`) REFERENCES `zips` (`zip\_code`))



-- ---------------------------------------------------------------------------

customers\_preferred\_sales\_rep\_fk

-- ---------------------------------------------------------------------------

-- IMPORTANT: 100001, 100002, 100003 employee\_id exits in employees table

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the customers table

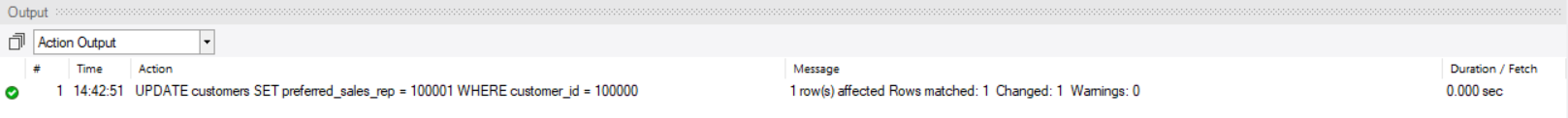
-- Action:

UPDATE customers

SET preferred\_sales\_rep = 100001

WHERE customer\_id = 100000;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the customers table

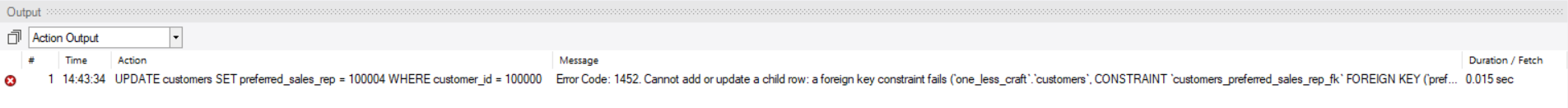
-- Action:

UPDATE customers

SET preferred\_sales\_rep = 100004

WHERE customer\_id = 100000;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`customers`, CONSTRAINT `customers\_preferred\_sales\_rep\_fk` FOREIGN KEY (`preferred\_sales\_rep`) REFERENCES `employees` (`employee\_id`))



-- ---------------------------------------------------------------------------

customers\_email

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

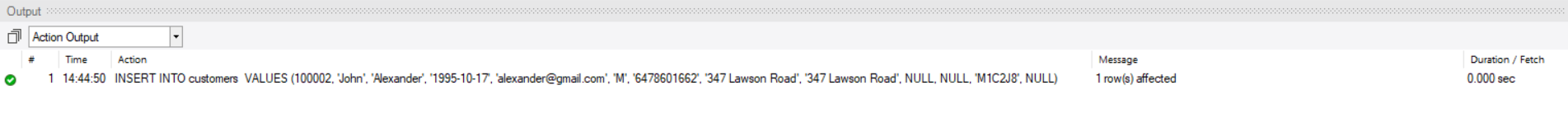
-- Expected results: Insert statement add a row in the customers table

-- Action:

INSERT INTO customers

VALUES (100002, 'John', 'Alexander', '1995-10-17', 'alexander@gmail.com', 'M', '6478601662', '347 Lawson Road', '347 Lawson Road', NULL, NULL, 'M1C2J8', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the customers table

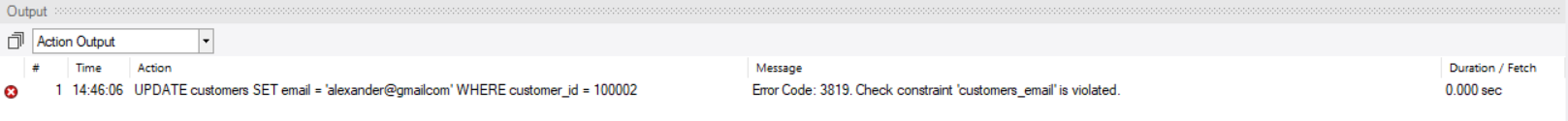
-- Action:

UPDATE customers

SET email = 'alexander@gmailcom'

WHERE customer\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'customers\_email' is violated.



-- ---------------------------------------------------------------------------

customers\_gender

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

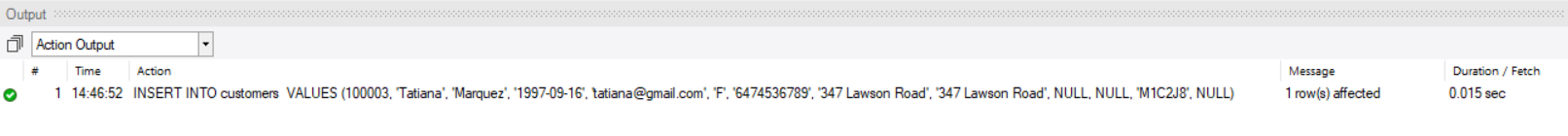
-- Expected results: Insert statement add a row in the customers table

-- Action:

INSERT INTO customers

VALUES (100003, 'Tatiana', 'Marquez', '1997-09-16', 'tatiana@gmail.com', 'F', '6474536789', '347 Lawson Road', '347 Lawson Road', NULL, NULL, 'M1C2J8', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the customers table

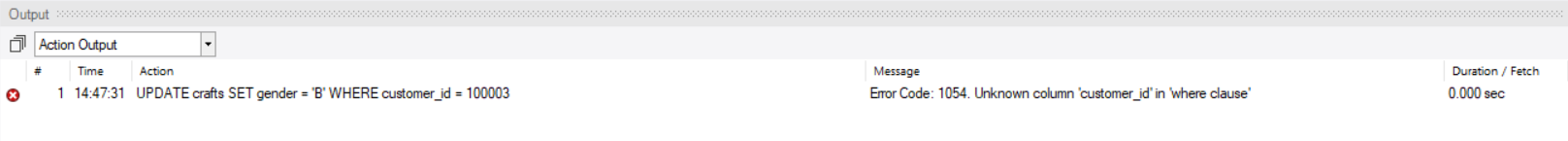
-- Action:

UPDATE crafts

SET gender = 'B'

WHERE customer\_id = 100003;

-- Test results: Error Code: 1054. Unknown column 'customer\_id' in 'where clause'



**EMPLOYEES Table**

-- ---------------------------------------------------------------------------

employees\_employee\_id\_pk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

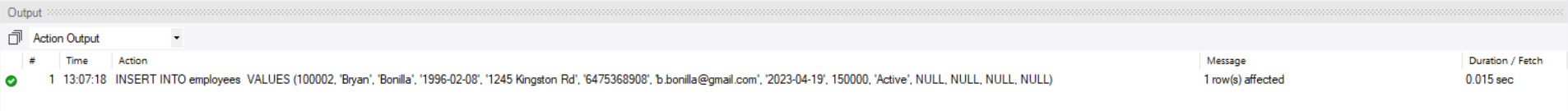
-- Expected results: Insert statement add a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100002, 'Bryan', 'Bonilla', '1996-02-08', '1245 Kingston Rd', '6475368908', 'b.bonilla@gmail.com', '2023-04-19', 150000, 'Active', NULL, NULL, NULL, NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

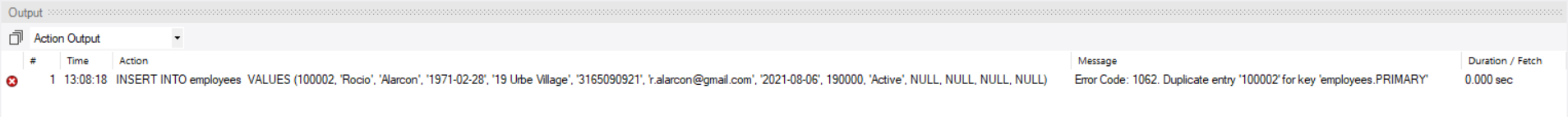
-- Expected results: Insert statement fails to add a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100002, 'Rocio', 'Alarcon', '1971-02-28', '19 Urbe Village', '3165090921', 'r.alarcon@gmail.com', '2021-08-06', 190000, 'Active', NULL, NULL, NULL, NULL);

-- Test results: Error Code: 1062. Duplicate entry '100002' for key 'employees.PRIMARY'



-- ---------------------------------------------------------------------------

employees\_contact\_number\_uk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100003, 'Rocio', 'Alarcon', '1971-02-28', '19 Urbe Village', '3165090921', 'r.alarcon@gmail.com', '2021-08-06', 190000, 'Active', NULL, NULL, NULL, NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

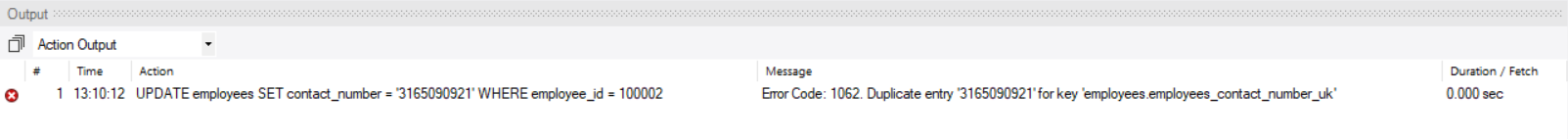
-- Action:

UPDATE employees

SET contact\_number = '3165090921'

WHERE employee\_id = 100002;

-- Test results: Error Code: 1062. Duplicate entry '3165090921' for key 'employees.employees\_contact\_number\_uk'



-- ---------------------------------------------------------------------------

employees\_email\_uk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

-- Expected results: Insert statement add a row in the employees table

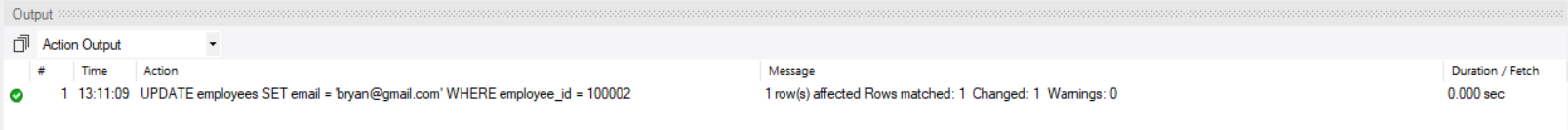
-- Action:

UPDATE employees

SET email = 'bryan@gmail.com'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

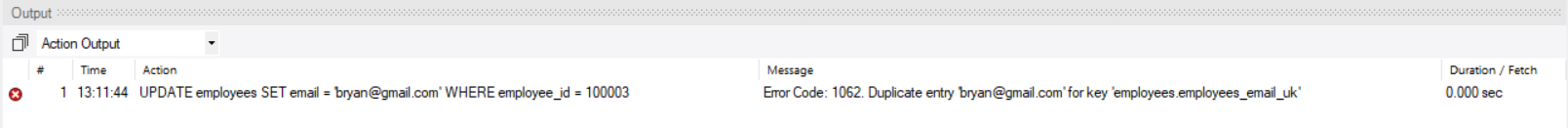
-- Action:

UPDATE employees

SET email = 'bryan@gmail.com'

WHERE employee\_id = 100003;

-- Test results: Error Code: 1062. Duplicate entry 'bryan@gmail.com' for key 'employees.employees\_email\_uk'



-- ---------------------------------------------------------------------------

employees\_manager\_id\_fk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

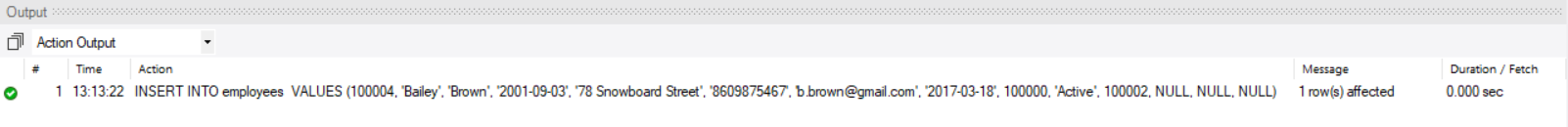
-- Expected results: Insert statement add a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100004, 'Bailey', 'Brown', '2001-09-03', '78 Snowboard Street', '8609875467', 'b.brown@gmail.com', '2017-03-18', 100000, 'Active', 100002, NULL, NULL, NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

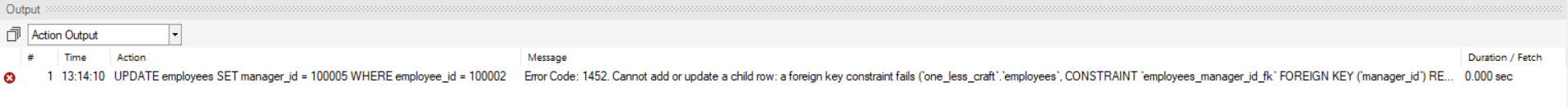
-- Action:

UPDATE employees

SET manager\_id = 100005

WHERE employee\_id = 100002;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`employees`, CONSTRAINT `employees\_manager\_id\_fk` FOREIGN KEY (`manager\_id`) REFERENCES `employees` (`employee\_id`))



-- ---------------------------------------------------------------------------

employees\_store\_id\_fk

-- ---------------------------------------------------------------------------

-- IMPORTANT: 123456, 123457, 123458 store\_id exist in the stores table.

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

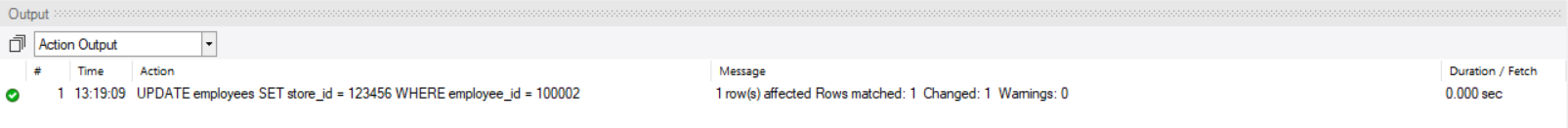
-- Action:

UPDATE employees

SET store\_id = 123456

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

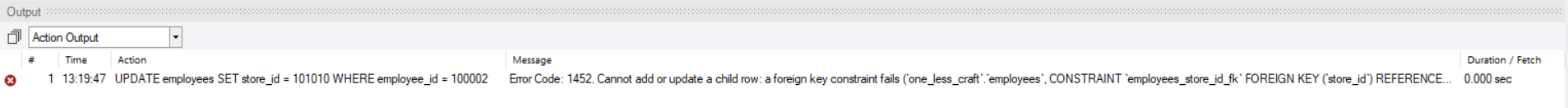
-- Action:

UPDATE employees

SET store\_id = 101010

WHERE employee\_id = 100002;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`employees`, CONSTRAINT `employees\_store\_id\_fk` FOREIGN KEY (`store\_id`) REFERENCES `stores` (`store\_id`))



-- ---------------------------------------------------------------------------

employees\_department\_id\_fk

-- ---------------------------------------------------------------------------

-- IMPORTANT: 000111, 000222, 000333 department\_id exist in the departments table.

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

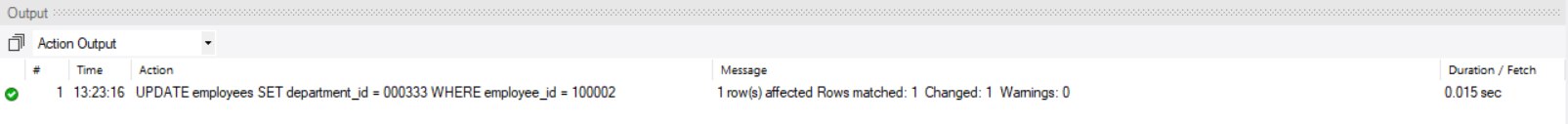
-- Action:

UPDATE employees

SET department\_id = 000333

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

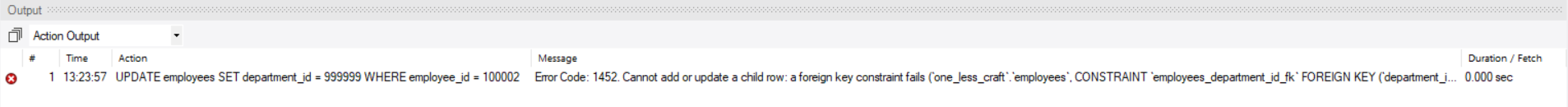
-- Action:

UPDATE employees

SET department\_id = 999999

WHERE employee\_id = 100002;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`employees`, CONSTRAINT `employees\_department\_id\_fk` FOREIGN KEY (`department\_id`) REFERENCES `departments` (`department\_id`))



-- ---------------------------------------------------------------------------

employees\_job\_id\_fk

-- ---------------------------------------------------------------------------

-- IMPORTANT: 111000, 222000, 333000 job\_id exist in the jobs table.

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

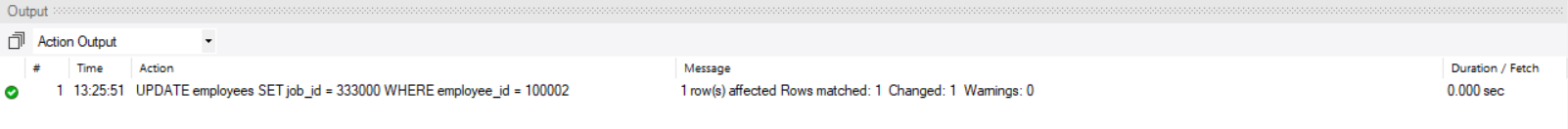
-- Action:

UPDATE employees

SET job\_id = 333000

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

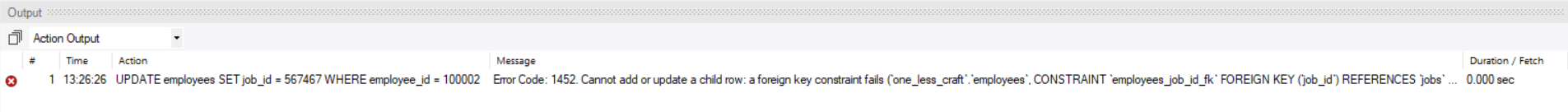
-- Action:

UPDATE employees

SET job\_id = 567467

WHERE employee\_id = 100002;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`employees`, CONSTRAINT `employees\_job\_id\_fk` FOREIGN KEY (`job\_id`) REFERENCES `jobs` (`job\_id`))



-- ---------------------------------------------------------------------------

employees\_salary\_range

-- ---------------------------------------------------------------------------

\*\* Valid test #1 \*\*

-- Expected results: Update statement modifies a row in the employees table

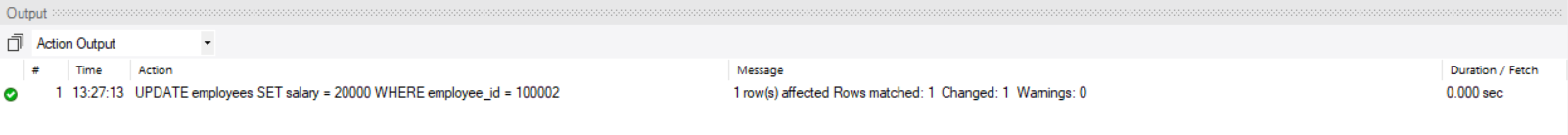
-- Action:

UPDATE employees

SET salary = 20000

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



\*\* Valid test #2 \*\*

-- Expected results: Update statement modifies a row in the employees table

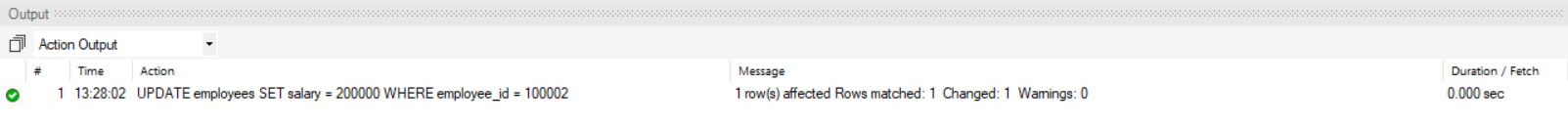
-- Action:

UPDATE employees

SET salary = 200000

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



\*\* Valid test #3 \*\*

-- Expected results: Update statement modifies a row in the employees table

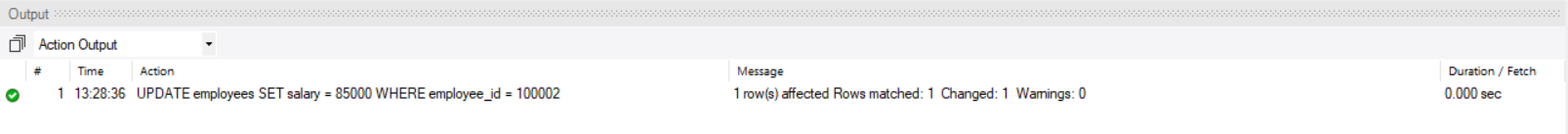
-- Action:

UPDATE employees

SET salary = 85000

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test #1 \*\*

-- Expected results: Update statement fails to modify a row in the employees table

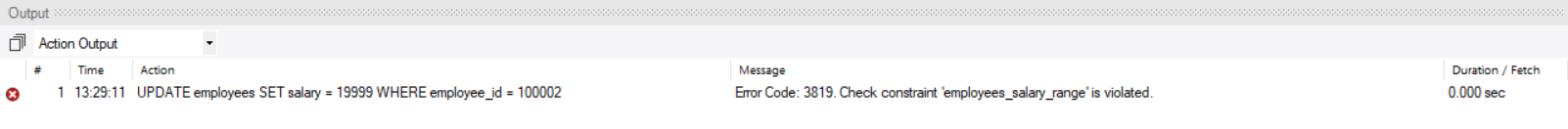
-- Action:

UPDATE employees

SET salary = 19999

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_salary\_range' is violated.



\*\* InValid test #2 \*\*

-- Expected results: Update statement fails to modify a row in the employees table

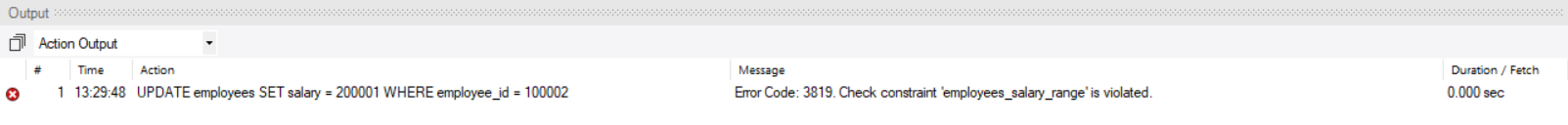
-- Action:

UPDATE employees

SET salary = 200001

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_salary\_range' is violated.



-- ---------------------------------------------------------------------------

employees\_emp\_status

-- ---------------------------------------------------------------------------

\*\* Valid test #1 \*\*

-- Expected results: Update statement modifies a row in the employees table

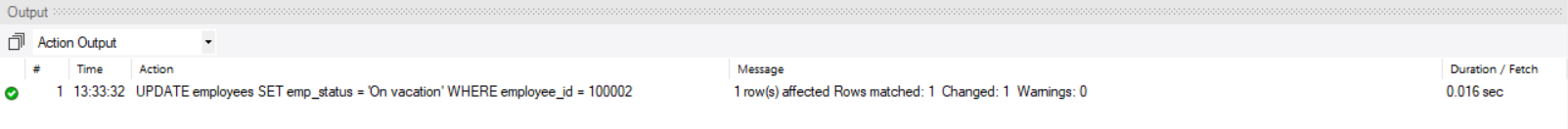
-- Action:

UPDATE employees

SET emp\_status = 'On vacation'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



\*\* Valid test #2 \*\*

-- Expected results: Update statement modifies a row in the employees table

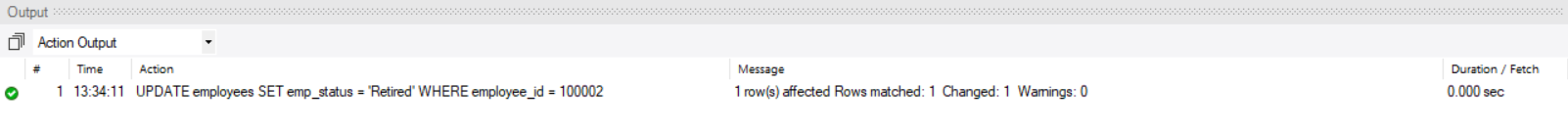
-- Action:

UPDATE employees

SET emp\_status = 'Retired'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



\*\* Valid test #3 \*\*

-- Expected results: Update statement modifies a row in the employees table

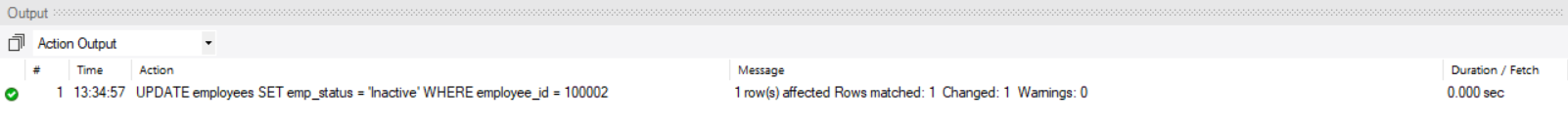
-- Action:

UPDATE employees

SET emp\_status = 'Inactive'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



\*\* Valid test #4 \*\*

-- Expected results: Update statement modifies a row in the employees table

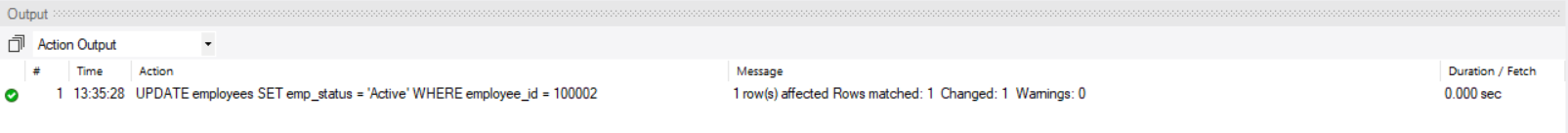
-- Action:

UPDATE employees

SET emp\_status = 'Active'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

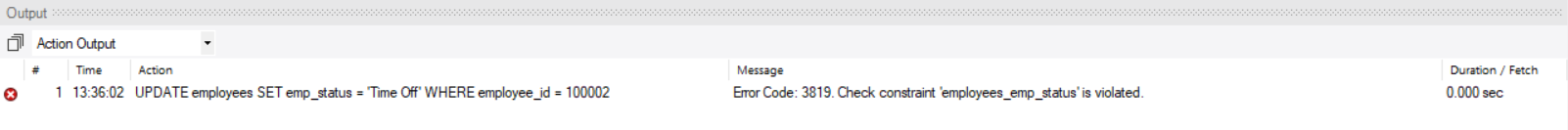
-- Action:

UPDATE employees

SET emp\_status = 'Time Off'

WHERE employee\_id = 100002;

-- Test results:



-- ---------------------------------------------------------------------------

employees\_hire\_date\_gt\_date\_of\_birth

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

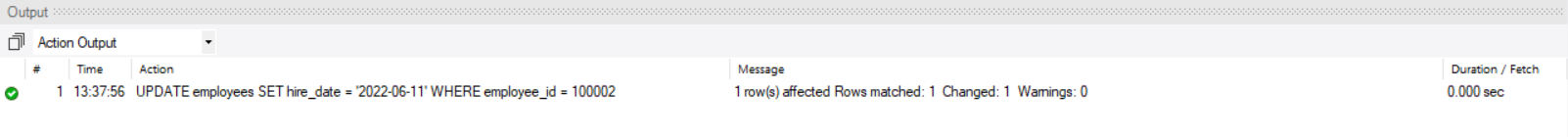
-- Action:

UPDATE employees

SET hire\_date = '2022-06-11' -- DOB = '1996-02-08'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

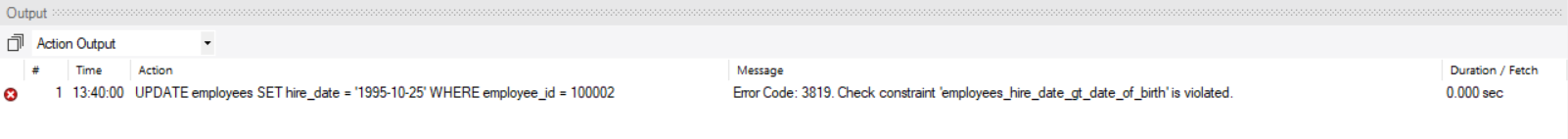
-- Action:

UPDATE employees

SET hire\_date = '1995-10-25'

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_hire\_date\_gt\_date\_of\_birth' is violated.



-- ---------------------------------------------------------------------------

employees\_email

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

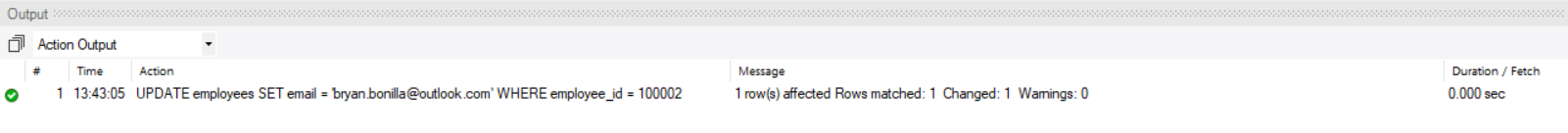
-- Action:

UPDATE employees

SET email = 'bryan.bonilla@outlook.com'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0



-- ---------------------------------------------------------------------------

\*\* InValid test #1 \*\*

-- Expected results: Update statement fails to modify a row in the employees table

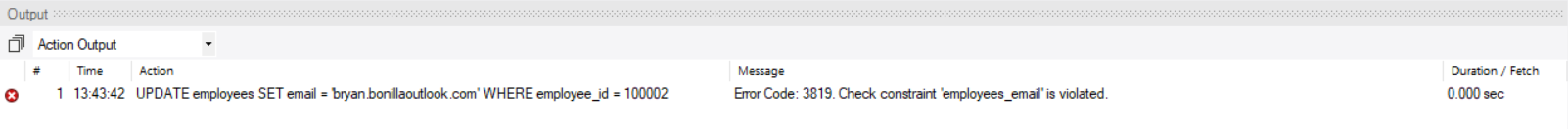
-- Action:

UPDATE employees

SET email = 'bryan.bonillaoutlook.com'

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_email' is violated.



\*\* InValid test #2 \*\*

-- Expected results: Update statement fails to modify a row in the employees table

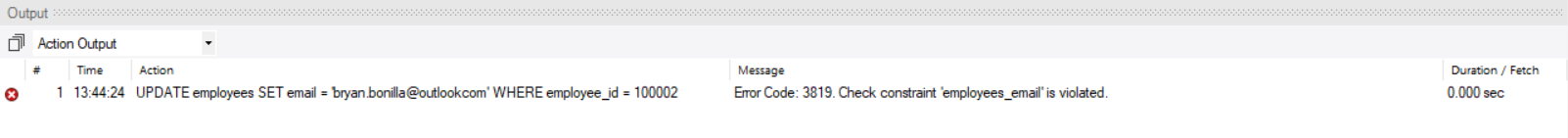
-- Action:

UPDATE employees

SET email = 'bryan.bonilla@outlookcom'

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_email' is violated.

****

**ORDERS Table**

-- --------------------------------------------------------------------------

Orders\_pk

-- ---------------------------------------------------------------------------

\*\*valid test\*\*

-- Expected results: Insert statement add a row in the orders table

-- Action:

insert into orders values(

300001, '2023-08-07', '2023-08-09', 'shipping', 200001, 100001, '30 days');

-- Test results:

-- 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\*InValid test\*\*

-- Expected results: Error due to duplication in primary key

-- Action:

insert into orders values(

300001, '2023-05-03', '2023-05-05', 'shipped', 200001, 100001, '20 days');

-- Test results:

-- Error Code: 1062. Duplicate entry '300001' for key 'orders.PRIMARY'



-- -------------------------------------------------------------------------

\*\*InValid test\*\*

-- Expected results: Insert statments fails to add a row in a orders table

-- Action:

insert into orders values(

null , '2023-05-03', '2023-05-05', 'shipped', 200001, 100001, '20 days');

-- test results:

-- Error Code: 1048. Column 'order\_id' cannot be null



-- ---------------------------------------------------------------------------

orders\_customer\_id\_fk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

-- Expected results: Insert statement add a row in the orders table

-- Action:

INSERT INTO orders

VALUES (300003, '2023-05-03', '2023-05-05', 'shipped', 200001, 100001, '20 days');

-- test results:

-- 1 row(s) affected

****

-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Insert statement add a row in the orders table

-- Action:

INSERT INTO orders

VALUES (300004, '2023-05-03', '2023-05-05', 'shipped', 200002, 100001, '20 days');

-- test results:

-- Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails

-- (`final\_project`.`orders`, CONSTRAINT `orders\_customer\_id\_fk`

-- FOREIGN KEY (`customer\_id`) REFERENCES `customers` (`customer\_id`))

****

-- ---------------------------------------------------------------------------

orders\_employee\_id\_fk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

-- Expected results: Insert statement add a row in the orders table

-- Action:

INSERT INTO orders

VALUES (300005, '2023-05-03', '2023-05-05', 'shipped', 200001, 100001, '20 days');

-- test results:

-- 1 row(s) affected

****

-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Insert statement add a row in the orders table

-- Action:

INSERT INTO orders

VALUES (300004, '2023-05-03', '2023-05-05', 'shipped', 200001, 100002, '20 days');

-- test results:

-- Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`final\_project`.`orders`,

-- CONSTRAINT `orders\_employee\_id\_fk` FOREIGN KEY (`employee\_id`) REFERENCES `employees` (`employee\_id`))

****

-- -----------------------------------------------------------------------

\*\*Valid test\*\*

-- Expected results: Defaulty added order date with the present date

-- Action:

insert into orders (order\_id, order\_date, shipped\_date, shipped\_status, customer\_id, employee\_id, return\_period)

values(

300002, default, null, 'shipped', 200001, 100001, '20 days');

-- test results:

-- 1 row(s) affected

****A screenshot of a computer

Description automatically generated

**STORES Table**

-- ---------------------------------------------------------------------------

stores\_store\_id\_pk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

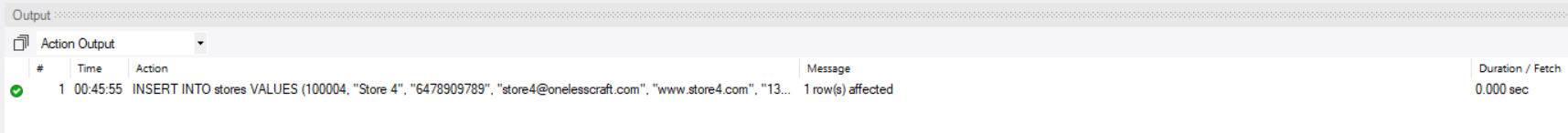
-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100004, 'Store 4', '6478909789', 'store4@onelesscraft.com', 'www.store4.com', '131 Yorkdale Blvd', 'M2N1N5', 800001);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

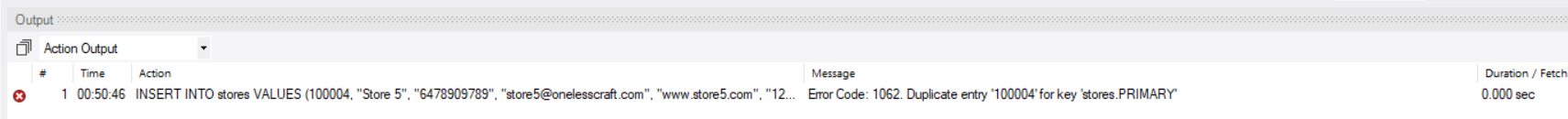
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100004, 'Store 5', '6478909790', 'store5@onelesscraft.com', 'www.store5.com', '1299 Finch Ave', 'M2N0H7', 800001);

-- Test results: Error Code: 1062. Duplicate entry '100004' for key 'stores.PRIMARY'



-- ---------------------------------------------------------------------------

\*\* InValid test2 \*\*

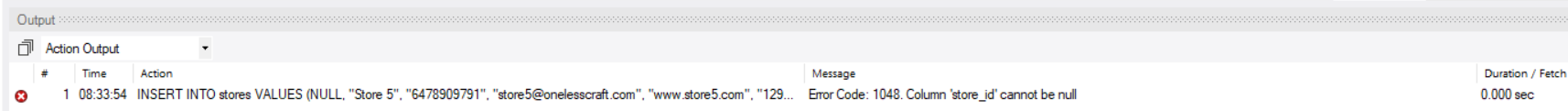
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (NULL, 'Store 5', '6478909791', 'store5@onelesscraft.com', 'www.store5.com', '1299 Finch Ave', 'M2N0H7', 800001);

-- Test results: Error Code: 1048. Column 'store\_id' cannot be null



-- ---------------------------------------------------------------------------

stores\_phone\_number\_uk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

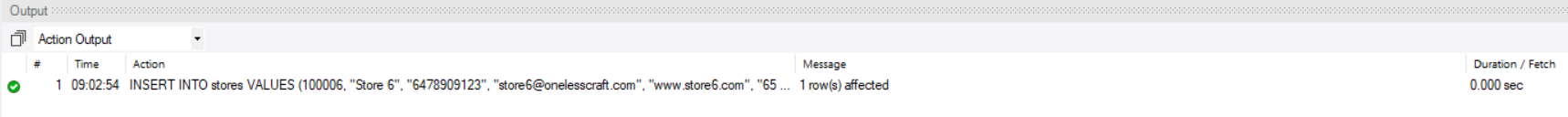
-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100006, 'Store 6', '6478909123', 'store6@onelesscraft.com', 'www.store6.com', '65 Warden Ave', 'M2N1N5', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

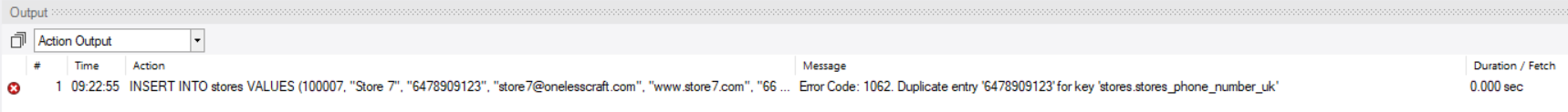
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100007, 'Store 7', '6478909123', 'store7@onelesscraft.com', 'www.store7.com', '66 Warden Ave', 'M2N1N5', NULL);

-- Test results: Error Code: 1062. Duplicate entry 'store6@onelesscraft.com' for key 'stores.stores\_email\_uk'



-- ---------------------------------------------------------------------------

\*\* InValid test 2\*\*

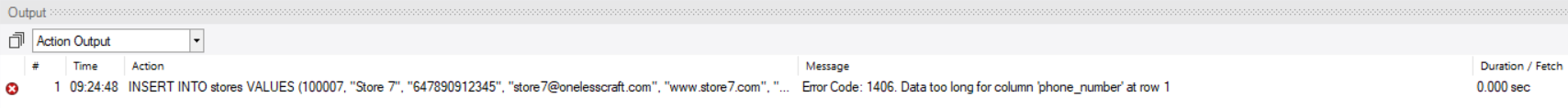
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100007, 'Store 7', '647890912345', 'store7@onelesscraft.com', 'www.store7.com', '66 Warden Ave', 'M2N1N5', NULL);

-- Test results: Error Code: 1406. Data too long for column 'phone\_number' at row 1



-- ---------------------------------------------------------------------------

stores\_email\_uk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

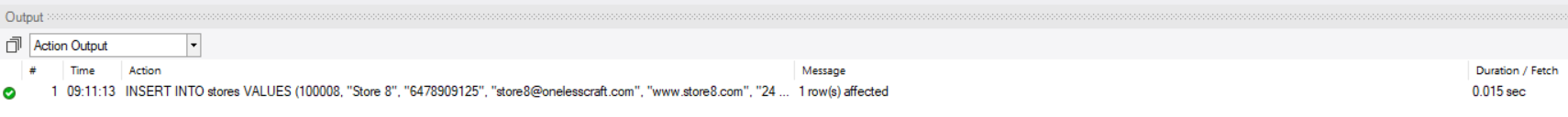
-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100008, 'Store 8', '6478909125', 'store8@onelesscraft.com', 'www.store8.com', '24 Lupin Dr', 'M2N1N5', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

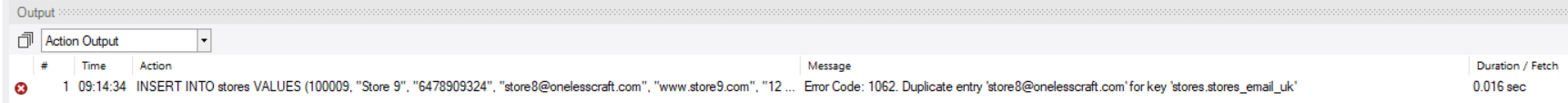
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100009, 'Store 9', '6478909324', 'store8@onelesscraft.com', 'www.store9.com', '12 Warden Ave', 'M2N1N5', NULL);

-- Test results: Error Code: 1062. Duplicate entry 'store8@onelesscraft.com' for key 'stores.stores\_email\_uk'



-- ---------------------------------------------------------------------------

stores\_email CHECK

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

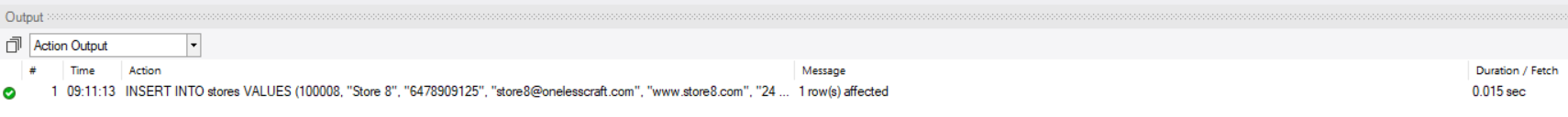
-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100008, 'Store 8', '6478909125', 'store8@onelesscraft.com', 'www.store8.com', '24 Lupin Dr', 'M2N1N5', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

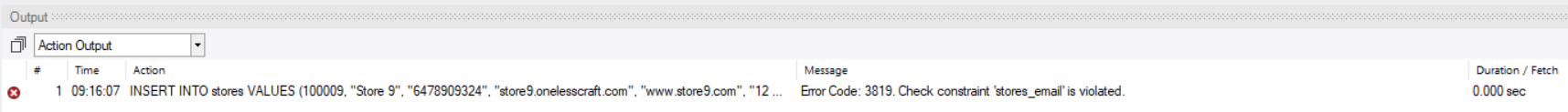
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100009, 'Store 9', '6478909324', 'store9.onelesscraft.com', 'www.store9.com', '12 Warden Ave', 'M2N1N5', NULL);

-- Test results: Error Code: 3819. Check constraint 'stores\_email' is violated.



-- ---------------------------------------------------------------------------

stores\_zip\_code\_fk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

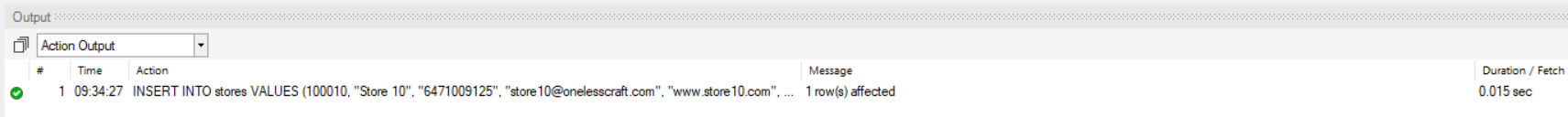
-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100010, 'Store 10', '6471009125', 'store10@onelesscraft.com', 'www.store10.com', '32 Ashtonbee Dr', 'M2N1N5', NULL);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

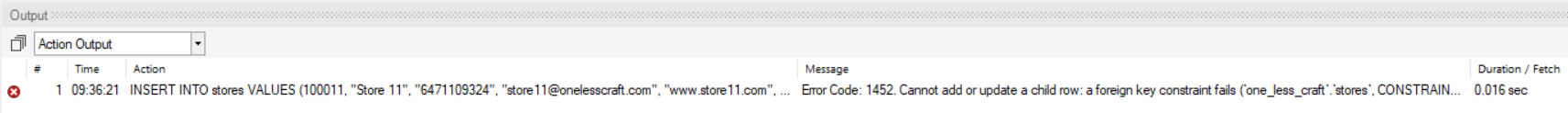
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100011, 'Store 11', '6471109324', 'store11@onelesscraft.com', 'www.store11.com', '46 Boem Ave', 'M2N1N6', NULL);

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`stores`, CONSTRAINT `stores\_zip\_code\_fk` FOREIGN KEY (`zip\_code`) REFERENCES `zips` (`zip\_code`))



-- ---------------------------------------------------------------------------

stores\_manager\_id\_fk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

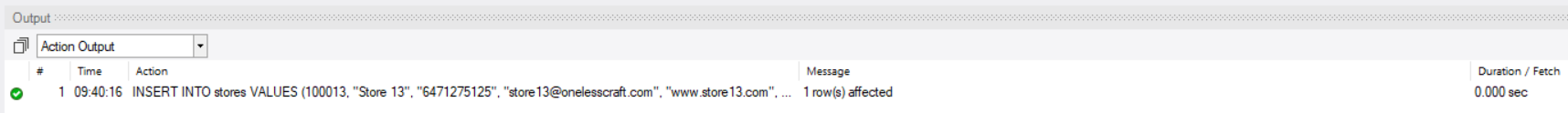
-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100013, 'Store 13', '6471275125', 'store13@onelesscraft.com', 'www.store13.com', '4 Victoria Park Ave', 'M2N1N5', 800001);

-- Test results: 1 row(s) affected



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

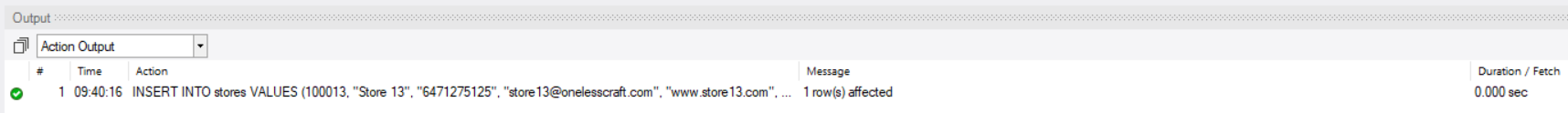
-- Expected results: Insert statement fails to add a row in the stores table

-- Action:

INSERT INTO stores

VALUES (100014, 'Store 14', '6471214125', 'store14@onelesscraft.com', 'www.store14.com', '38 Tower Dr', 'M2N1N5', 800004);

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`stores`, CONSTRAINT `stores\_manager\_id\_fk` FOREIGN KEY (`manager\_id`) REFERENCES `employees` (`employee\_id`))



**STORES Table**

-- ---------------------------------------------------------------------------

warehouses\_warehouses\_id\_pk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

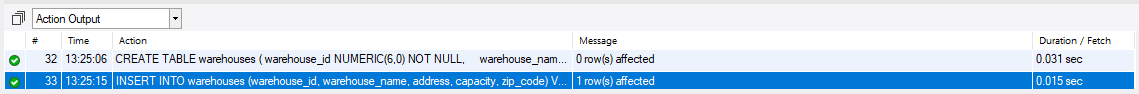
-- Expected results: Insert statement add a row in the warehouses table

-- Action:

INSERT INTO warehouses (warehouse\_id, warehouse\_name, address, capacity, zip\_code)

VALUES (131, 'Yarn Store', '121 Dundas Street', 121215.82, '56604');

--1 row(s) affected 0.015 sec



-- ---------------------------------------------------------------------------

\*\* invalid test \*\*

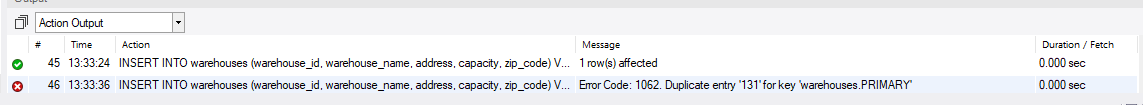
-- Expected results: Insert statement fails to add a row in the warehouses table

-- Action:

INSERT INTO warehouses (warehouse\_id, warehouse\_name, address, capacity, zip\_code)

VALUES (131, 'woolen Store', 'Pharmacy Ave', 253115, '25361');

-- Test results: Error Code: 1062. Duplicate entry '131' for key 'warehouses.PRIMARY'



-- ---------------------------------------------------------------------------

warehouses\_warehouses\_id\_pk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the warehouses table

-- Action:

UPDATE warehouses

SET warehouse\_id= 121

where warehouse\_id= 131;

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* invalid test \*\*

-- Expected results: update statement fails to modify a row in the warehouses table

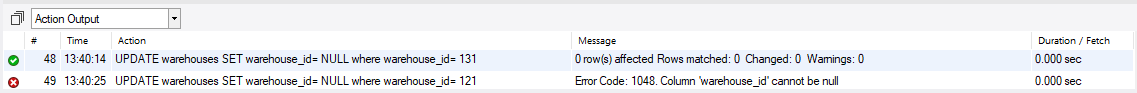
-- Action:

UPDATE warehouses

SET warehouse\_id= NULL

where warehouse\_id= 121;

-- Test results: Error Code: 1048. Column 'warehouse\_id' cannot be null



-- ---------------------------------------------------------------------------

warehouses\_zip\_code\_fk

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the warehouses table

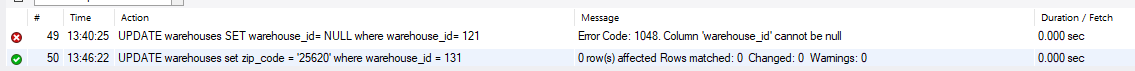
-- Action:

UPDATE warehouses

set zip\_code = '25620'

where warehouse\_id = 131;

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* invalid test \*\*

-- Expected results: update statement fails to modify a row in the warehouses table

-- Action:

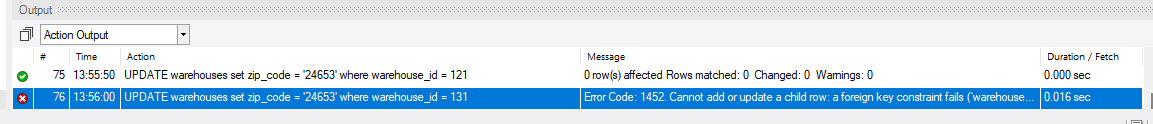
UPDATE warehouses

set zip\_code = '24653'

where warehouse\_id = 131;

-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails

-- (`warehouses`.`warehouses`, CONSTRAINT `warehouses\_zip\_code\_fk` FOREIGN KEY (`zip\_code`) REFERENCES `zips` (`zip\_code`))



-- ---------------------------------------------------------------------------

warehouses\_capacity

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the warehouses table

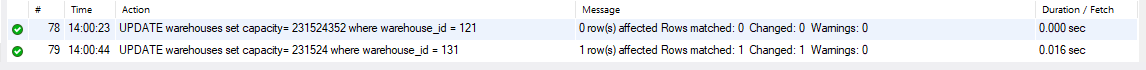
-- Action:

UPDATE warehouses

set capacity= 231524

where warehouse\_id = 131;

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* invalid test \*\*

-- Expected results: update statement fails to modify a row in the warehouses table

-- Action:

UPDATE warehouses

set capacity= 231524352

where warehouse\_id = 131;

-- Test results: Error Code: 1264. Out of range value for column 'capacity' at row 1



**CRAFTS Table**

-- ---------------------------------------------------------------------------

crafts\_craft\_id\_pk

-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

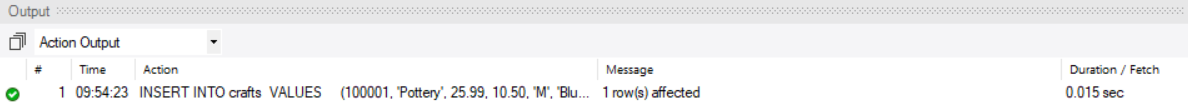
-- Expected results: Insert statement add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (100001, 'Pottery', 25.99, 10.50, 'M', 'Blue', 'Decorative', 'Fits well', 'Beautiful ceramic vase');

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

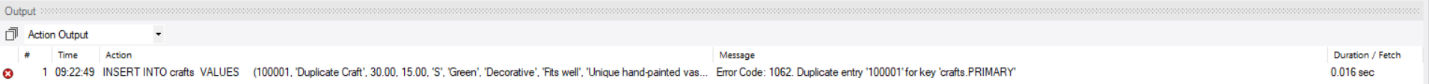
-- Expected results: Insert statement fails to add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (100001, 'Duplicate Craft', 30.00, 15.00, 'S', 'Green', 'Decorative', 'Fits well', 'Unique hand-painted vase');

-- Test results: Error Code: 1062. Duplicate entry '100001' for key 'crafts.PRIMARY'



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

-- Expected results: Update statement fails to modifies a row in the crafts table

-- Action:

UPDATE crafts

SET craft\_id = 100004

WHERE craft\_id = 100001;

-- Test results: Error Code: 1062. Duplicate entry '100004' for key 'crafts.PRIMARY'



-- ---------------------------------------------------------------------------

crafts\_selling\_price\_gt\_manufacturing\_cost

-- ---------------------------------------------------------------------------

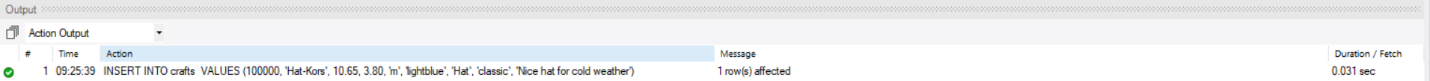
\*\* Valid test \*\*

-- Expected results: Insert statement add a row in the crafts table

-- Action:

INSERT INTO crafts VALUES (100000,'Hat-Kors', 10.65, 3.80, 'm', 'lightblue', 'Hat', 'classic', 'Nice hat for cold weather');

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

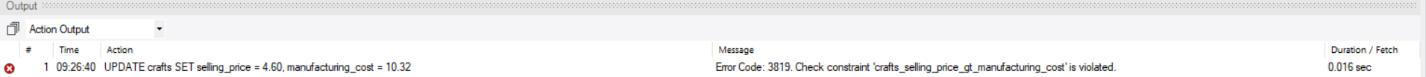
\*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the crafts table

-- Action:

UPDATE crafts SET selling\_price = 4.60, manufacturing\_cost = 10.32;

-- Test results: Error Code: 3819. Check constraint 'crafts\_selling\_price\_gt\_manufacturing\_cost' is violated.



-- ---------------------------------------------------------------------------

-- crafts\_crafts\_size

-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

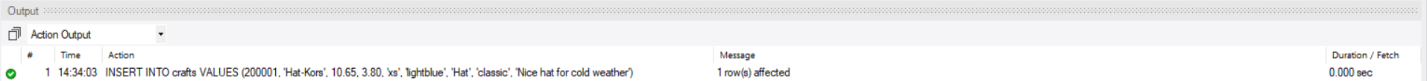
-- Expected results: Insert statement add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (200001, 'Hat-Kors', 10.65, 3.80, 'xs', 'lightblue', 'Hat', 'classic', 'Nice hat for cold weather');

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

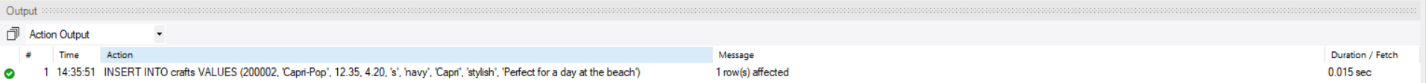
-- Expected results: Insert statement add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (200002, 'Capri-Pop', 12.35, 4.20, 's', 'navy', 'Capri', 'stylish', 'Perfect for a day at the beach');

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* Valid test \*\*

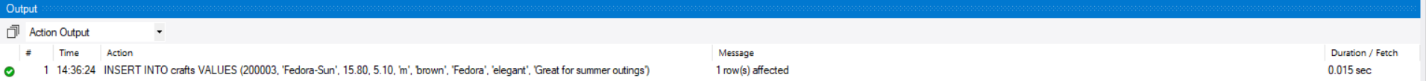
-- Expected results: Insert statement add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (200003, 'Fedora-Sun', 15.80, 5.10, 'm', 'brown', 'Fedora', 'elegant', 'Great for summer outings');

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

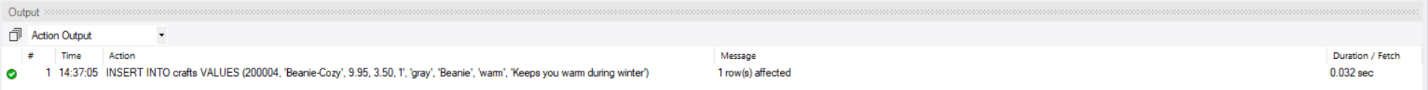
-- Expected results: Insert statement add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (200004, 'Beanie-Cozy', 9.95, 3.50, 'l', 'gray', 'Beanie', 'warm', 'Keeps you warm during winter');

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

-- \*\* Valid test \*\*

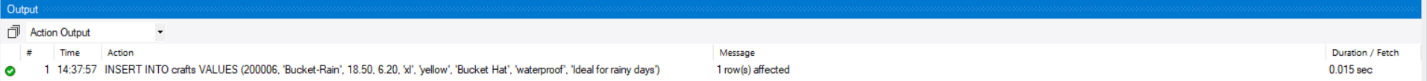
-- Expected results: Insert statement add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (200006, 'Bucket-Rain', 18.50, 6.20, 'xl', 'yellow', 'Bucket Hat', 'waterproof', 'Ideal for rainy days');

-- Test results: 1 row Inserted



-- ---------------------------------------------------------------------------

\*\* InValid test \*\*

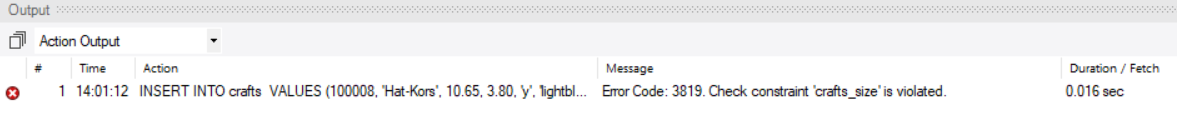
-- Expected results: Insert statement fails to add a row in the crafts table

-- Action:

INSERT INTO crafts

VALUES (100008, 'Hat-Kors', 10.65, 3.80, 'y', 'lightblue', 'Hat', 'classic', 'Nice hat for cold weather');

-- Test results: Error Code: 3819. Check constraint 'crafts\_size' is violated.



**YARNS Table**

-- --------------------------------------------------------------------------------------

yarns\_yarn\_id\_pk

-- --------------------------------------------------------------------------------------

\*\* Valid Test \*\*

-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (123456, 'Cotton', 'Medium', 'Blue', 10.99, 'common', 'Soft and durable cotton yarn.');

-- Test results: 1 row(s) affected

A screenshot of a computer

Description automatically generated

-- -------------------------------------------------------------------------------------

\*\* Invalid Test \*\*

-- Expected results: Violation of PRIMARY KEY constraint The duplicate key value is (123456).

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (123456, 'Wool', 'Heavy', 'Green', 15.99, 'premium', 'Warm and cozy wool yarn.');

-- Test results: The statement has been terminated.

A screenshot of a computer

Description automatically generated

-- -------------------------------------------------------------------------------------- \*\* Invalid Test \*\*

-- Expected results: Cannot insert the value NULL into column 'yarn\_id'

-- Action:

INSERT INTO yarns (yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES ('Acrylic', 'Light', 'Pink', 5.49, 'common', 'Vibrant acrylic yarn for various projects.');

-- Test results: The statement has been terminated.

A text message on a computer

Description automatically generated

-- -------------------------------------------------------------------------------------

yarns\_yarn\_quality

-- -------------------------------------------------------------------------------------

\*\* Valid Test \*\*

-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (987654, 'Wool', 'Medium', 'Gray', 8.99, 'common', 'Soft and versatile common quality wool yarn.');

-- Test results: 1 row(s) affected

A close up of a text

Description automatically generated

-- -------------------------------------------------------------------------------------\*\* Invalid Test \*\*

-- Expected results: The INSERT statement conflicted with the CHECK constraint "yarns\_\_yarn\_quality"

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (555555, 'Cotton', 'Light', 'White', 6.99, 'commmon', 'Light and soft cotton yarn.');

-- Test results: The statement has been terminated.

A screenshot of a computer

Description automatically generated

-- -------------------------------------------------------------------------------------

\*\* Valid Test \*\*

-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (876543, 'Silk', 'Light', 'Purple', 25.99, 'rare', 'Luxurious and exquisite rare quality silk yarn.');

-- Test results: 1 row(s) affected

A screenshot of a computer

Description automatically generated

-- -------------------------------------------------------------------------------------

\*\* Invalid Test \*\*

-- Expected results: The INSERT statement conflicted with the CHECK constraint "yarns\_\_yarn\_quality"

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (666666, 'Wool', 'Medium', 'Brown', 14.99, 'raare', 'Warm and rare quality wool yarn.');

-- Test results: The statement has been terminated.

A screenshot of a computer

Description automatically generated

-- -------------------------------------------------------------------------------------\*\* Valid Test \*\*

-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (765432, 'Alpaca', 'Heavy', 'Brown', 19.99, 'premium', 'High-quality premium alpaca yarn for warm projects.');

-- Test results: 1 row(s) affected

A close up of a text

Description automatically generated

-- --------------------------------------------------------------------------------------\*\* Invalid Test \*\*

-- Expected results: The INSERT statement conflicted with the CHECK constraint "yarns\_\_yarn\_quality"

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (777777, 'Acrylic', 'Light', 'Blue', 8.99, 'preemium', 'Soft and premium acrylic yarn.');

-- Test results: The statement has been terminated.

A screenshot of a computer

Description automatically generated

-- -------------------------------------------------------------------------------------\*\* Valid Test \*\*

-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (654321, 'Blend', 'Medium', 'Multicolor', 12.99, 'custom', 'Customizable blend yarn for unique creations.');

-- Test results: 1 row(s) affected

A close up of a text

Description automatically generated

-- --------------------------------------------------------------------------------------\*\* Invalid Test \*\*

-- Expected results: The INSERT statement conflicted with the CHECK constraint "yarns\_\_yarn\_quality"

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (888888, 'Blend', 'Heavy', 'Green', 11.99, 'cusstom', 'Customizable blend yarn for creative projects.');

-- Test results: The statement has been terminated.

A screen shot of a computer

Description automatically generated

-- --------------------------------------------------------------------------------------

yarns\_yarn\_price

-- --------------------------------------------------------------------------------------

\*\* Valid Test \*\*

-- Expected results: Insert statement add a row in the stores table

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (373737, 'Wool', 'Medium', 'Gray', 8.99, 'common', 'Soft and warm wool yarn.');

-- Test results: 1 row(s) affected

A screenshot of a computer

Description automatically generated

-- --------------------------------------------------------------------------------------\*\* Invalid Test \*\*

-- Expected results: The INSERT statement conflicted with the CHECK constraint "yarns\_yarn\_price".

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (393939, 'Cotton', 'Heavy', 'Green', -5.99, 'common', 'Durable cotton yarn.');

-- Test results: The statement has been terminated.

A screenshot of a computer

Description automatically generated

-- --------------------------------------------------------------------------------------\*\* Invalid Test \*\*

-- Expected results: The INSERT statement conflicted with the CHECK constraint "yarns\_yarn\_price".

-- Action:

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES (383838, 'Acrylic', 'Light', 'Red', 0.00, 'premium', 'Vibrant acrylic yarn.');-- Test results: The statement has been terminated.

A screenshot of a computer

Description automatically generated

**DML**

-- Insert statements JOBS

INSERT INTO jobs (job\_id, job\_title)

VALUES

(301, 'Sales Associate'),

(302, 'Marketing Specialist'),

(303, 'Financial Analyst'),

(304, 'HR Manager'),

(305, 'IT Technician'),

(306, 'Operations Manager'),

(307, 'R&D Scientist'),

(308, 'Representative'),

(309, 'Quality Analyst'),

(310, 'Logistics Coordinator'),

(311, 'Software Developer'),

(312, 'Graphic Designer'),

(313, 'Research Analyst'),

(314, 'Product Manager'),

(315, 'Data Analyst');

-- Insert statements ZIPS

INSERT INTO zips (zip\_code, city, province, country)

VALUES

('V6B 1A1', 'Vancouver', 'British Columbia', 'Canada'),

('T2H M1C', 'Calgary', 'Alberta', 'Canada'),

('T2H 0K8', 'Winnipeg', 'Manitoba', 'Canada'),

('M5V 3L9', 'Toronto', 'Ontario', 'Canada'),

('H2Y 2H3', 'Montreal', 'Quebec', 'Canada'),

('B3J 1N4', 'Halifax', 'Nova Scotia', 'Canada'),

('A1B 2C3', 'Mississauga', 'Ontario', 'Canada'),

('E1C 4R8', 'Moncton', 'New Brunswick', 'Canada'),

('K1A 0B1', 'Ottawa', 'Ontario', 'Canada'),

('S4P 3V6', 'Regina', 'Saskatchewan', 'Canada');

-- Insert statements CRAFTS

INSERT INTO crafts (craft\_id, craft\_name, selling\_price, manufacturing\_cost, size, color, craft\_type, fit, craft\_description)

VALUES

(301, 'Knitted Scarf', 24.99, 10.50, 'm', 'Blue', 'Accessory', 'One Size', 'Warm and stylish scarf.'),

(302, 'Crochet Blanket', 89.50, 45.75, 'xl', 'White', 'Home Decor', 'Oversized', 'Cozy blanket for any room.'),

(303, 'Embroidered Pillow', 29.75, 14.25, 's', 'Green', 'Home Decor', 'Standard', 'Decorative pillow with intricate embroidery.'),

(304, 'Wooden Coasters', 12.99, 6.50, 's', 'Natural', 'Home Decor', 'Standard', 'Set of wooden coasters for drinks.'),

(305, 'Knitted Beanie', 15.25, 8.75, 'm', 'Grey', 'Accessory', 'One Size', 'Warm beanie for cold days.'),

(306, 'Handmade Earrings', 19.99, 9.50, 's', 'Multicolor', 'Jewelry', 'Standard', 'Unique earrings crafted with care.'),

(307, 'Ceramic Mug', 8.50, 4.25, 'm', 'Blue', 'Home Decor', 'Standard', 'Stylish ceramic mug for your favorite drinks.'),

(308, 'Embroidered Tote Bag', 34.99, 18.50, 'l', 'Pink', 'Accessory', 'Oversized', 'Spacious tote bag with beautiful embroidery.'),

(309, 'Handmade Soap', 7.25, 3.50, 's', 'Various', 'Bath and Body', 'Standard', 'Natural and fragrant handmade soap.'),

(310, 'Painted Canvas', 49.50, 28.75, 'l', 'Various', 'Art', 'Oversized', 'Vibrant painted canvas for your walls.'),

(311, 'Beaded Bracelet', 12.99, 5.75, 's', 'Gold', 'Jewelry', 'Standard', 'Elegant bracelet with intricate beadwork.'),

(312, 'Wooden Wall Clock', 29.75, 15.25, 'm', 'Brown', 'Home Decor', 'Standard', 'Functional and decorative wooden wall clock.'),

(313, 'Knitted Baby Booties', 18.50, 7.99, 'xs', 'Pink', 'Baby', 'Newborn', 'Soft and cute booties for babies.'),

(314, 'Hand-Painted Mug', 14.99, 6.75, 'm', 'Purple', 'Home Decor', 'Standard', 'Mug with artistic hand-painted design.'),

(315, 'Embroidered Hat', 17.25, 9.99, 'm', 'Black', 'Accessory', 'One Size', 'Stylish hat with detailed embroidery.'),

(316, 'Clay Sculpture', 54.99, 32.50, 'l', 'Various', 'Art', 'Oversized', 'Unique clay sculpture for display.'),

(317, 'Printed Notebook', 9.50, 3.99, 's', 'Patterned', 'Stationery', 'Standard', 'Notebook with creative printed cover.'),

(318, 'Handmade Necklace', 28.99, 14.50, 'm', 'Silver', 'Jewelry', 'One Size', 'Necklace with handmade pendant.'),

(319, 'Candle Holder', 22.25, 10.99, 'm', 'Metallic', 'Home Decor', 'Standard', 'Decorative candle holder for ambiance.'),

(320, 'Crochet Hat', 16.75, 8.25, 'm', 'Brown', 'Accessory', 'One Size', 'Cozy crochet hat for colder days.'),

(321, 'Custom Keychain', 8.99, 4.25, 's', 'Customizable', 'Accessories', 'Standard', 'Keychain with personalized design.'),

(322, 'Greeting Card', 5.50, 2.50, 's', 'Various', 'Stationery', 'Standard', 'Artistic greeting card for special occasions.'),

(323, 'Macrame Plant Hanger', 19.75, 11.50, 'm', 'Natural', 'Home Decor', 'One Size', 'Hanging plant hanger with macrame design.'),

(324, 'Hand-Painted Scarf', 28.99, 15.75, 'm', 'Colorful', 'Accessory', 'One Size', 'Vibrant scarf with hand-painted design.'),

(325, 'Beaded Anklet', 9.99, 4.75, 's', 'Turquoise', 'Jewelry', 'Standard', 'Dainty anklet with colorful beads.'),

(326, 'Embroidered Napkins', 12.25, 5.99, 's', 'White', 'Home Decor', 'Standard', 'Set of napkins with delicate embroidery.'),

(327, 'Knitted Baby Blanket', 36.50, 19.75, 'l', 'Pastel', 'Baby', 'Oversized', 'Soft and cuddly blanket for infants.'),

(328, 'Hand-Painted Planter', 14.99, 7.50, 'm', 'Terracotta', 'Home Decor', 'Standard', 'Plant pot with artistic hand-painted design.'),

(329, 'Braided Bracelet', 10.75, 4.99, 's', 'Brown', 'Jewelry', 'Standard', 'Bracelet with intricate braided pattern.'),

(330, 'Crochet Coasters', 8.50, 3.99, 's', 'Multicolor', 'Home Decor', 'Standard', 'Set of colorful crochet coasters.'),

(331, 'Handmade Bookmark', 4.99, 1.75, 's', 'Patterned', 'Stationery', 'Standard', 'Bookmark with unique handmade design.'),

(332, 'Wooden Jewelry Box', 26.25, 12.99, 'm', 'Natural', 'Home Decor', 'Standard', 'Jewelry box with wooden finish.'),

(333, 'Embroidered Pouch', 15.99, 7.50, 's', 'Blue', 'Accessory', 'Standard', 'Small pouch with elegant embroidery.'),

(334, 'Printed Tote Bag', 18.75, 9.99, 'l', 'Patterned', 'Accessory', 'Oversized', 'Tote bag with creative printed design.'),

(335, 'Handmade Coasters', 14.50, 6.99, 's', 'Various', 'Home Decor', 'Standard', 'Set of handmade decorative coasters.');

-- Insert Statements YARNS

INSERT INTO yarns (yarn\_id, yarn\_type, yarn\_weight, yarn\_color, yarn\_price, yarn\_quality, yarn\_description)

VALUES

(601, 'Acrylic', 'Worsted', 'Blue', 9.99, 'common', 'A versatile and affordable yarn for various projects.'),

(602, 'Cotton', 'Sport', 'White', 12.50, 'common', 'Breathable and soft cotton yarn for lightweight garments.'),

(603, 'Wool', 'Bulky', 'Grey', 15.75, 'common', 'Warm and cozy wool yarn perfect for cold-weather projects.'),

(604, 'Alpaca', 'Fingering', 'Brown', 18.99, 'common', 'Luxuriously soft alpaca yarn suitable for delicate items.'),

(605, 'Silk', 'Lace', 'Purple', 24.50, 'rare', 'Smooth and elegant silk yarn for sophisticated projects.'),

(606, 'Cashmere', 'Worsted', 'Beige', 34.99, 'rare', 'Exquisite cashmere yarn known for its luxurious feel.'),

(607, 'Mohair', 'Sport', 'Pink', 22.75, 'rare', 'Fluffy mohair yarn with a unique texture and appearance.'),

(608, 'Bamboo', 'DK', 'Green', 11.25, 'premium', 'Eco-friendly bamboo yarn with a silky touch.'),

(609, 'Merino Wool', 'Fingering', 'Red', 16.50, 'premium', 'Soft and versatile merino wool yarn for various projects.'),

(610, 'Linen', 'Worsted', 'Natural', 14.50, 'premium', 'Durable and cool linen yarn perfect for summer wear.'),

(611, 'Sparkle', 'Lace', 'Silver', 9.99, 'common', 'Yarn with added sparkle for festive and eye-catching projects.'),

(612, 'Tweed', 'Bulky', 'Multicolor', 11.75, 'common', 'Textured tweed yarn for rustic and cozy creations.'),

(613, 'Variegated', 'DK', 'Rainbow', 13.50, 'common', 'Yarn with multicolored variations for vibrant projects.'),

(614, 'Chenille', 'Worsted', 'Gold', 14.99, 'common', 'Plush and velvety chenille yarn for soft and warm items.'),

(615, 'Metallic', 'Sport', 'Black', 10.25, 'common', 'Yarn with metallic accents for a touch of glamour.'),

(616, 'Gradient', 'Fingering', 'Ombre', 17.50, 'rare', 'Yarn that transitions smoothly between gradient colors.'),

(617, 'Lace', 'Lace', 'Ivory', 8.75, 'common', 'Delicate and intricate lace yarn for elegant projects.'),

(618, 'Velvet', 'DK', 'Deep Blue', 19.99, 'rare', 'Luxurious velvet yarn with a plush texture.'),

(619, 'Striped', 'Worsted', 'Stripes', 12.99, 'common', 'Yarn with striped patterns for fun and colorful creations.'),

(620, 'Fluffy', 'Bulky', 'Pastel', 15.25, 'common', 'Fluffy and soft yarn perfect for cozy accessories.'),

(621, 'Recycled', 'Sport', 'Earth Tones', 11.50, 'premium', 'Yarn made from recycled materials, eco-friendly choice.'),

(622, 'Angora', 'Fingering', 'Cream', 21.50, 'rare', 'Silky and warm angora yarn for luxurious projects.'),

(623, 'Tencel', 'DK', 'Teal', 14.25, 'premium', 'Sustainable tencel yarn with a smooth and shiny finish.'),

(624, 'Hemp', 'Worsted', 'Natural', 9.75, 'premium', 'Durable and eco-friendly hemp yarn for versatile projects.'),

(625, 'Nylon', 'Sport', 'Neon Pink', 8.99, 'common', 'Strong and resilient nylon yarn suitable for various applications.'),

(626, 'Ribbon', 'Bulky', 'Rainbow', 7.50, 'common', 'Flat ribbon-like yarn for creative and decorative projects.'),

(627, 'Organic', 'Fingering', 'Earth Tones', 16.99, 'premium', 'Certified organic yarn for environmentally conscious crafting.'),

(628, 'Jute', 'DK', 'Rust', 10.99, 'premium', 'Natural and rustic jute yarn');

-- Insert statements DEPARTMENTS

INSERT INTO departments (department\_id, department\_name, department\_phone, department\_email, department\_budget, department\_description, manager\_id)

VALUES

(101, 'Sales', '1234567890', 'sales@example.com', 500000.00, 'Responsible for sales operations', NULL),

(102, 'Marketing', '9876543210', 'marketing@example.com', 350000.00, 'Handles marketing campaigns', NULL),

(103, 'Finance', '5551234567', 'finance@example.com', 800000.00, 'Manages financial operations', NULL),

(104, 'Human Resources', '7778889999', 'hr@example.com', 600000.00, 'Responsible for HR activities', NULL),

(105, 'IT', '1112223333', 'it@example.com', 750000.00, 'Manages information technology', NULL),

(106, 'Operations', '4445556666', 'operations@example.com', 450000.00, 'Handles day-to-day operations', NULL),

(107, 'Research and Development', '7775558888', 'rnd@example.com', 900000.00, 'Focuses on research and development', NULL),

(108, 'Customer Service', '3334445555', 'customerservice@example.com', 300000.00, 'Provides customer support', NULL),

(109, 'Quality Assurance', '8889991111', 'qa@example.com', 300000.00, 'Ensures product quality', NULL),

(110, 'Logistics', '6667778888', 'logistics@example.com', 550000.00, 'Handles supply chain and logistics', NULL);

-- Insert statements STORES

INSERT INTO stores (store\_id, store\_name, phone\_number, email, website, address, zip\_code, manager\_id)

VALUES

(101, 'Craft Haven', '1234567890', 'info@crafthaven.com', 'www.crafthaven.com', '456 Main St', 'V6B 1A1', NULL),

(102, 'Crafty Corner', '9876543210', 'contact@craftycorner.com', NULL, '789 Elm St', 'T2H 0K8', NULL),

(103, 'Yarn World', '5551234567', 'sales@yarnworld.com', 'www.yarnworld.com', '123 Oak Ave', 'M5V 3L9', NULL),

(104, 'Artistic Crafts', '7778889999', 'info@artisticcrafts.com', 'www.artisticcrafts.com', '456 Pine Rd', 'H2Y 2H3', NULL),

(105, 'Creative Creations', '1112223333', 'contact@creativecreations.com', NULL, '789 Cedar Ln', 'V6B 1A1', NULL);

-- Insert stements EMPLOYEES

INSERT INTO employees (employee\_id, first\_name, last\_name, date\_of\_birth, address, contact\_number, email, hire\_date, salary, emp\_status, manager\_id, store\_id, department\_id, job\_id)

VALUES

(201, 'John', 'Doe', '1985-03-15', '123 Main St', 1234567890, 'john.doe@example.com', '2020-07-15', 60000.00, 'Active', NULL, 101, 101, 301),

(202, 'Jane', 'Smith', '1990-09-20', '456 Elm St', 9876543210, 'jane.smith@example.com', '2018-04-10', 75000.00, 'Active', 201, 102, 102, 302),

(203, 'Michael', 'Johnson', '1988-12-10', '789 Oak Ave', 5551234567, 'michael@example.com', '2019-02-25', 90000.00, 'Active', 201, 103, 103, 303),

(204, 'Emily', 'Williams', '1995-07-08', '567 Pine Rd', 7778889999, 'emilyw@example.com', '2022-01-05', 55000.00, 'Active', 202, 104, 104, 304),

(205, 'William', 'Brown', '1983-11-25', '890 Cedar Ln', 1112223333, 'wbrown@example.com', '2021-09-12', 80000.00, 'Active', NULL, 105, 105, 305),

(206, 'Olivia', 'Miller', '1992-06-18', '234 Birch Dr', 4445556666, 'oliviam@example.com', '2023-03-30', 70000.00, 'Active', 203, 101, 106, 306),

(207, 'Ethan', 'Davis', '1987-03-29', '789 Maple St', 7775558888, 'ethand@example.com', '2022-11-20', 85000.00, 'Active', 203, 102, 107, 307),

(208, 'Sophia', 'Wilson', '1999-04-12', '345 Oak Ave', 3334445555, 'sophiaw@example.com', '2020-06-08', 60000.00, 'Active', 204, 103, 108, 308),

(209, 'Aiden', 'Anderson', '1994-09-03', '456 Pine Rd', 8889991111, 'aidena@example.com', '2017-08-03', 65000.00, 'Active', 204, 104, 109, 309),

(210, 'Mia', 'Martinez', '2000-01-22', '567 Cedar Ln', 6667778888, 'miam@example.com', '2023-05-10', 75000.00, 'Active', 205, 105, 110, 310),

(211, 'Noah', 'Taylor', '1991-08-11', '678 Elm St', 2223334444, 'noah.taylor@example.com', '2019-11-02', 70000.00, 'Active', 205, 101, 101, 301),

(212, 'Ava', 'Anderson', '1998-03-02', '789 Oak Ave', 7778889990, 'ava.anderson@example.com', '2022-02-15', 55000.00, 'Active', 206, 102, 101, 301),

(213, 'Liam', 'Wilson', '1990-12-17', '890 Pine Rd', 5556667777, 'liamw@example.com', '2021-03-18', 85000.00, 'Active', 206, 103, 101, 301),

(214, 'Emma', 'Garcia', '1996-07-09', '123 Cedar Ln', 1112223330, 'emma.garcia@example.com', '2020-09-09', 60000.00, 'Active', 207, 104, 101, 301),

(215, 'Isabella', 'Harris', '1993-10-05', '234 Maple St', 3334445550, 'isabella@example.com', '2023-01-28', 70000.00, 'Active', 207, 105, 101, 301);

-- Insert statements CUSTOMERS

INSERT INTO customers (customer\_id, first\_name, last\_name, date\_of\_birth, email, gender, contact\_number, address, shipping\_address, billing\_address, favorite\_craft, zip\_code, preferred\_sales\_rep)

VALUES

(1, 'John', 'Doe', '1990-05-15', 'john.doe@example.com', 'M', '1234567890', '123 Main St', '123 Main St', NULL, 301, 'V6B 1A1', NULL),

(2, 'Jane', 'Smith', '1985-09-20', 'jane.smith@example.com', 'F', '9876543210', '456 Elm St', '456 Elm St', '789', 302, 'M5V 3L9', 201),

(3, 'Michael', 'Johnson', '1993-02-10', 'michael@example.com', 'M', '5551234567', '789 Oak Ave', '789 Oak Ave', '234', 303, 'V6B 1A1', NULL),

(4, 'Emily', 'Williams', '2000-07-08', 'emilyw@example.com', 'F', '7778889999', '567 Pine Rd', '567 Pine Rd', '567', 304, 'M5V 3L9', 202),

(5, 'William', 'Brown', '1982-11-25', 'wbrown@example.com', 'M', '1112223333', '890 Cedar Ln', '890 Cedar Ln', NULL, 305, 'T2H 0K8', NULL),

(6, 'Olivia', 'Miller', '1991-06-18', 'oliviam@example.com', 'F', '4445556666', '234 Birch Dr', '234 Birch Dr', '123', 306, 'V6B 1A1', 206),

(7, 'Ethan', 'Davis', '1988-03-29', 'ethand@example.com', 'M', '7775558888', '789 Maple St', '789 Maple St', NULL, 307, 'T2H 0K8', NULL),

(8, 'Sophia', 'Wilson', '2002-04-12', 'sophiaw@example.com', 'F', '3334445555', '345 Oak Ave', '345 Oak Ave', '890', 308, 'T2H 0K8', 207),

(9, 'Aiden', 'Anderson', '1997-09-03', 'aidena@example.com', 'M', '8889991111', '456 Pine Rd', '456 Pine Rd', '456', 309, 'T2H 0K8', 208),

(10, 'Mia', 'Martinez', '2004-01-22', 'miam@example.com', 'F', '6667778888', '567 Cedar Ln', '567 Cedar Ln', '678', 310, 'M5V 3L9', 209),

(11, 'Noah', 'Taylor', '1995-08-11', 'noah.taylor@example.com', 'M', '2223334444', '678 Elm St', '678 Elm St', '901', 311, 'M5V 3L9', NULL),

(12, 'Ava', 'Anderson', '2001-03-02', 'ava.anderson@example.com', 'F', '7778809999', '789 Oak Ave', '789 Oak Ave', NULL, 312, 'H2Y 2H3', 210),

(13, 'Liam', 'Wilson', '1989-12-17', 'liamw@example.com', 'M', '5556667777', '890 Pine Rd', '890 Pine Rd', '234', 313, 'H2Y 2H3', NULL),

(14, 'Emma', 'Garcia', '2003-07-09', 'emma.garcia@example.com', 'F', '1112203333', '123 Cedar Ln', '123 Cedar Ln', '567', 314, 'H2Y 2H3', 211),

(15, 'Isabella', 'Harris', '1998-10-05', 'isabella@example.com', 'F', '3334045555', '234 Maple St', '234 Maple St', '890', 315, 'H2Y 2H3', NULL);

-- Insert statements ORDERS

INSERT INTO orders (order\_id, order\_date, shipped\_date, shipped\_status, customer\_id, employee\_id, return\_period)

VALUES

(1001, '2022-08-01', '2022-08-05', 'Shipped', 1, 201, '30 days'),

(1002, '2022-09-02', '2022-09-06', 'Shipped', 2, 202, '15 days'),

(1003, '2022-10-03', '2022-10-07', 'Shipped', 3, 203, '30 days'),

(1004, '2022-11-04', '2022-11-08', 'Shipped', 4, 204, '15 days'),

(1005, '2022-12-05', '2022-12-09', 'Shipped', 5, 205, '30 days'),

(1006, '2023-01-06', '2023-01-10', 'Shipped', 6, 206, '15 days'),

(1007, '2023-02-07', '2023-02-11', 'Shipped', 7, 207, '30 days'),

(1008, '2023-03-08', '2023-03-12', 'Shipped', 8, 208, '15 days'),

(1009, '2023-04-09', '2023-04-13', 'Shipped', 9, 209, '30 days'),

(1010, '2023-05-10', '2023-05-14', 'Shipped', 10, 210, '15 days'),

(1011, '2023-06-11', '2023-06-15', 'Shipped', 11, 211, '30 days'),

(1012, '2023-07-12', '2023-07-16', 'Shipped', 12, 212, '15 days'),

(1013, '2023-08-13', '2023-08-17', 'Shipped', 13, 213, '30 days'),

(1014, '2023-09-14', '2023-09-18', 'Shipped', 14, 214, '15 days'),

(1015, '2023-10-15', '2023-10-19', 'Shipped', 15, 215, '30 days'),

(1016, '2023-11-16', '2023-11-20', 'Shipped', 1, 201, '15 days'),

(1017, '2023-12-17', '2023-12-21', 'Shipped', 2, 202, '30 days'),

(1018, '2024-01-18', '2024-01-22', 'Shipped', 3, 203, '15 days'),

(1019, '2024-02-19', '2024-02-23', 'Shipped', 4, 204, '30 days'),

(1020, '2024-03-20', '2024-03-24', 'Shipped', 5, 205, '15 days'),

(1021, '2024-04-21', '2024-04-25', 'Shipped', 6, 206, '30 days'),

(1022, '2024-05-22', '2024-05-26', 'Shipped', 7, 207, '15 days'),

(1023, '2024-06-23', '2024-06-27', 'Shipped', 8, 208, '30 days'),

(1024, '2024-07-24', '2024-07-28', 'Shipped', 9, 209, '15 days'),

(1025, '2024-08-25', '2024-08-29', 'Shipped', 10, 210, '30 days'),

(1026, '2024-09-26', '2024-09-30', 'Shipped', 11, 211, '15 days'),

(1027, '2024-10-27', '2024-10-31', 'Shipped', 12, 212, '30 days'),

(1028, '2024-11-28', '2024-12-01', 'Shipped', 13, 213, '15 days'),

(1029, '2024-12-29', '2025-01-02', 'Shipped', 14, 214, '30 days'),

(1030, '2025-01-30', '2025-02-03', 'Shipped', 15, 215, '15 days');

-- Insert statements WAREHOUSES

INSERT INTO warehouses (warehouse\_id, warehouse\_name, address, capacity, zip\_code)

VALUES

(501, 'Central Warehouse', '123 Main St', 100000.00, 'V6B 1A1'),

(502, 'North Warehouse', '456 Elm St', 750000.00, 'T2H 0K8'),

(503, 'South Warehouse', '789 Oak Ave', 500000.00, 'M5V 3L9'),

(504, 'East Warehouse', '567 Pine Rd', 800000.00, 'H2Y 2H3'),

(505, 'West Warehouse', '890 Cedar Ln', 600000.00, 'V6B 1A1'),

(506, 'Downtown Warehouse', '234 Birch Dr', 450000.00, 'T2H 0K8'),

(507, 'Uptown Warehouse', '789 Maple St', 550000.00, 'M5V 3L9'),

(508, 'Suburb Warehouse', '345 Oak Ave', 700000.00, 'H2Y 2H3'),

(509, 'Metro Warehouse', '456 Pine Rd', 850000.00, 'V6B 1A1'),

(510, 'Rural Warehouse', '567 Cedar Ln', 400000.00, 'T2H 0K8');

-- Insert statements INVENTORIES

INSERT INTO inventories (warehouse\_id, craft\_id, quantity, update\_date)

VALUES

(501, 301, 500, '2023-08-17'),

(502, 302, 700, '2023-08-17'),

(503, 303, 350, '2023-08-17'),

(504, 304, 900, '2023-08-17'),

(505, 305, 600, '2023-08-17'),

(506, 306, 400, '2023-08-17'),

(507, 307, 550, '2023-08-17'),

(508, 308, 720, '2023-08-17'),

(509, 309, 420, '2023-08-17'),

(510, 310, 300, '2023-08-17'),

(501, 311, 450, '2023-08-17'),

(502, 312, 680, '2023-08-17'),

(503, 313, 320, '2023-08-17'),

(504, 314, 780, '2023-08-17'),

(505, 315, 540, '2023-08-17'),

(506, 316, 370, '2023-08-17'),

(507, 317, 600, '2023-08-17'),

(508, 318, 710, '2023-08-17'),

(509, 319, 390, '2023-08-17'),

(510, 320, 270, '2023-08-17'),

(501, 321, 420, '2023-08-17'),

(502, 322, 640, '2023-08-17'),

(503, 323, 310, '2023-08-17'),

(504, 324, 820, '2023-08-17'),

(505, 325, 580, '2023-08-17'),

(506, 326, 350, '2023-08-17'),

(507, 327, 590, '2023-08-17'),

(508, 328, 760, '2023-08-17'),

(509, 329, 430, '2023-08-17'),

(510, 330, 290, '2023-08-17'),

(501, 331, 470, '2023-08-17'),

(502, 332, 720, '2023-08-17'),

(503, 333, 340, '2023-08-17'),

(504, 334, 870, '2023-08-17'),

(505, 335, 620, '2023-08-17'),

(506, 327, 410, '2023-08-17'),

(508, 327, 560, '2023-08-17'),

(508, 335, 790, '2023-08-17'),

(509, 331, 400, '2023-08-17'),

(510, 324, 250, '2023-08-17');

-- Insert statements CRAFTS\_ORDERS

INSERT INTO crafts\_orders (craft\_id, order\_id, quantity)

VALUES

(301, 1001, 3),

(302, 1001, 1),

(305, 1002, 2),

(310, 1003, 1),

(307, 1003, 4),

(312, 1004, 2),

(314, 1005, 3),

(311, 1006, 1),

(316, 1007, 1),

(319, 1008, 2),

(324, 1008, 1),

(330, 1009, 4),

(331, 1009, 1),

(301, 1010, 2),

(308, 1011, 1),

(318, 1012, 1),

(322, 1012, 3),

(325, 1013, 2),

(326, 1014, 4),

(335, 1015, 1),

(314, 1015, 2),

(330, 1016, 3),

(306, 1017, 1),

(307, 1017, 2),

(328, 1018, 1),

(333, 1019, 2),

(308, 1020, 2),

(303, 1021, 3),

(314, 1021, 1),

(320, 1022, 2),

(311, 1023, 1),

(328, 1024, 1),

(318, 1024, 2),

(327, 1025, 1),

(325, 1029, 3),

(312, 1027, 2),

(317, 1028, 1),

(331, 1029, 1),

(333, 1029, 1),

(309, 1030, 4),

(306, 1021, 2),

(304, 1022, 3),

(326, 1023, 1),

(332, 1024, 2),

(315, 1024, 1),

(328, 1025, 1),

(314, 1025, 2),

(325, 1026, 3),

(331, 1026, 1),

(301, 1027, 2),

(317, 1029, 1),

(329, 1029, 2);

-- Insert statements CRAFTS\_YARNS

INSERT INTO crafts\_yarns (craft\_id, yarn\_id, quantity)

VALUES

(301, 601, 5),

(301, 602, 3),

(302, 602, 2),

(303, 603, 4),

(304, 604, 2),

(305, 601, 3),

(305, 603, 2),

(306, 602, 4),

(307, 604, 2),

(308, 601, 3),

(309, 603, 2),

(310, 601, 4),

(310, 604, 1),

(311, 602, 2),

(312, 603, 3),

(313, 601, 4),

(313, 604, 2),

(314, 601, 3),

(314, 603, 2),

(315, 602, 4);

-- Insert statements WAREHOUSES\_STORES

INSERT INTO warehouses\_stores (warehouse\_id, store\_id)

VALUES

(501, 101),

(501, 102),

(502, 103),

(503, 104),

(504, 105),

(505, 101),

(505, 102),

(506, 103),

(507, 104),

(508, 105);

**SQL Statements**

1. Retrieve the CUSTOMERS that live in Toronto, over 18 years old and have purchased a total amount greater than or equal to 10 dollars.

CREATE OR REPLACE VIEW promotion\_in\_mississauga AS

SELECT cu.email – SUM(cr.selling\_price)

FROM customers AS cu

INNER JOIN orders USING (customer\_id)

INNER JOIN zips AS z USING (zip\_code)

INNER JOIN crafts\_orders USING (order\_id)

INNER JOIN crafts AS cr USING (craft\_id)

WHERE ((YEAR(CURRENT\_DATE)) - YEAR(cu.date\_of\_birth) >= 18) AND (LOWER(z.city) = 'toronto')

GROUP BY cu.email

HAVING (SUM(cr.selling\_price) > 10);

2. Retrieve the total sales amount by location of all orders for the past 6 months to know which city has sold more crafts.

SELECT z.city, SUM(cr.selling\_price)

FROM customers

INNER JOIN orders AS o USING (customer\_id)

INNER JOIN zips AS z USING (zip\_code)

INNER JOIN crafts\_orders USING (order\_id)

INNER JOIN crafts AS cr USING (craft\_id)

WHERE (TIMESTAMPDIFF(MONTH, o.order\_date, CURRENT\_DATE) >= 6)

GROUP BY z.city;

3. Create a view that shows the yarns that are mostly used by calculating the crafts ordered multiplied by the quantity of the crafts sold.

CREATE VIEW most\_ordered\_yarns AS

SELECT

Y.yarn\_id,

Y.yarn\_type,

Y.yarn\_color,

Y.yarn\_description,

COALESCE((

SELECT SUM(CO.quantity \* CY.quantity)

FROM crafts\_orders CO

JOIN crafts\_yarns CY ON CO.craft\_id = CY.craft\_id

WHERE CY.yarn\_id = Y.yarn\_id

), 'Not used yet') AS total\_ordered\_quantity

FROM yarns Y;

4. List the total sales of each employee that is Sales Representatives.

CREATE VIEW Employee\_sales AS

SELECT

E.employee\_id,

E.first\_name,

E.last\_name,

(

SELECT COALESCE(SUM(CO.quantity \* C.selling\_price), 0)

FROM crafts\_orders CO

JOIN crafts C ON CO.craft\_id = C.craft\_id

JOIN orders O ON CO.order\_id = O.order\_id

WHERE O.employee\_id = E.employee\_id

) AS total\_sales\_amount

FROM employees E

WHERE E.job\_id = 301; -- Job IDs Sales Representatives (301)

5. Retrieve the customers and its favorite craft with the highest selling price.

CREATE OR REPLACE VIEW highest\_selling\_favorite\_craft AS

SELECT CONCAT(c.first\_name,' ', c.last\_name) AS customer\_name,

cr.craft\_name AS favorite\_craft,

cr.selling\_price

FROM customers c

LEFT JOIN crafts cr ON c.favorite\_craft = cr.craft\_id

WHERE cr.selling\_price = (SELECT MAX(selling\_price) FROM crafts);

6. Retrieve the list of crafts along with the total quantity available in each warehouse.

CREATE OR REPLACE VIEW craft\_total\_quantity AS

SELECT c.craft\_name,

w.warehouse\_name,

COALESCE(SUM(i.quantity), 0) AS total\_quantity

FROM crafts c

CROSS JOIN warehouses w

LEFT JOIN inventories i ON c.craft\_id = i.craft\_id AND w.warehouse\_id = i.warehouse\_id

GROUP BY c.craft\_id, w.warehouse\_id;

7. Retrieve how many craft items are available and how many have been ordered, helping track craft supplies.

CREATE VIEW CraftInventorySummary AS

SELECT c.craft\_id,

c.craft\_name,

i.quantity AS inventory\_quantity,

COALESCE(SUM(co.quantity), 0) AS total\_ordered\_quantity

FROM crafts c

LEFT JOIN inventories i ON c.craft\_id = i.craft\_id

LEFT JOIN crafts\_orders co ON c.craft\_id = co.craft\_id

GROUP BY c.craft\_id, c.craft\_name, i.quantity;

8. Retrieve the list of employees with their department.

CREATE VIEW EmployeeDepartmentSummary AS

SELECT e.employee\_id,

e.first\_name,

e.last\_name,

d.department\_id,

d.department\_name

FROM employees e

LEFT JOIN departments d ON e.department\_id = d.department\_id;

9. Retrieve the list of employees and the quantity of craft sold.

SELECT e.employee\_id, CONCAT(e.first\_name, ' ', e.last\_name) AS "Full Name",

co.quantity,

co.craft\_id

FROM employees AS e

JOIN orders AS q USING (employee\_id)

JOIN crafts\_orders AS co USING(order\_id);

10. warehouse with highest capacity in a specific province

CREATE VIEW highest\_warehouse\_capacity AS

SELECT w.warehouse\_id, w.warehouse\_name, w.address, w.capacity, z.zip\_code, z.city, z.province, z.country

FROM warehouses w

JOIN zips z ON w.zip\_code = z.zip\_code

WHERE z.province = 'Ontario'

AND w.capacity = (

SELECT MAX(capacity)

FROM warehouse\_details

);

11. Retrieve warehouse details with the capacity in a specific city

SELECT w.warehouse\_id, w.warehouse\_name, w.address, w.capacity, z.zip\_code, z.city, z.province, z.country

FROM warehouses w

JOIN zips z ON w.zip\_code = z.zip\_code;

WHERE city = 'Toronto';

12. Retrieve the number of warehouses per province

SELECT z.province, COUNT(w.warehouse\_id) AS "Number of warehouses"

FROM warehouses AS w

INNER JOIN zips AS z USING (zip\_code)

GROUP BY z.province;