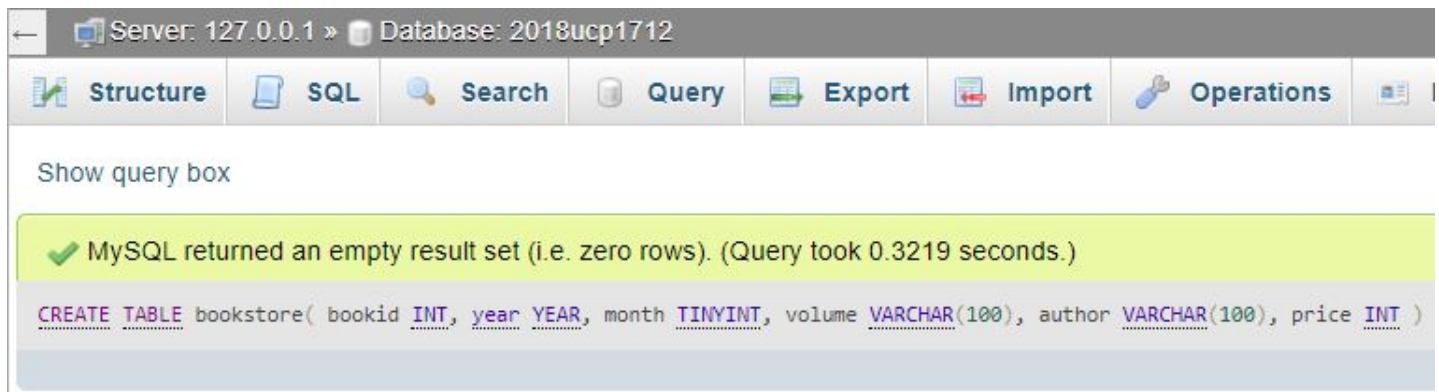


DBMS Lab Assignment-4

Abdullah Jamal 2018UCP1712

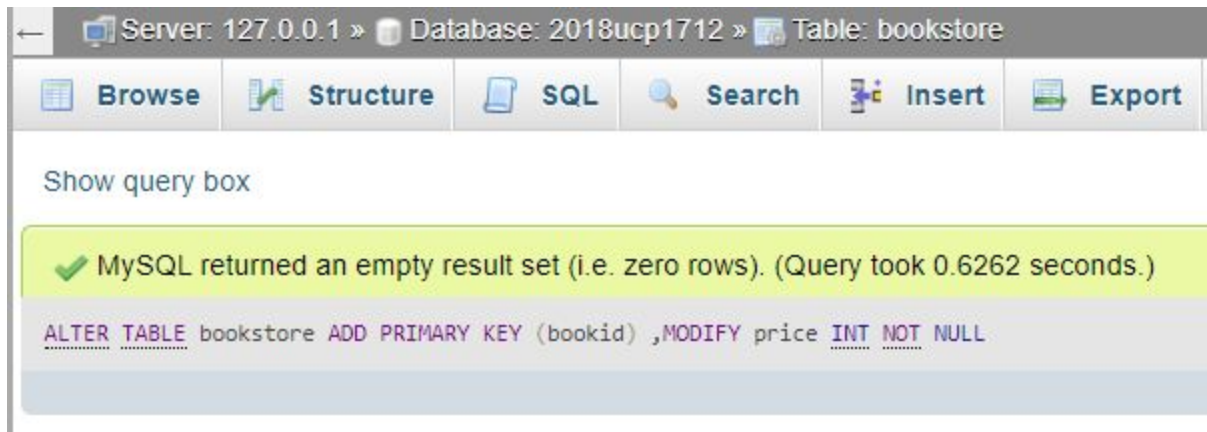
Q1. WAQ to create a table: bookstore (bookid, year, month, volume, author, price).

A1. **CREATE TABLE** bookstore(bookid INT,
year INT,
month TINYINT,
volume VARCHAR(100),
author VARCHAR(100),
price INT
);



Q2. WAQ to add "NOT NULL" constraint to "price" and "primary key" constraint to "bookid".

A2. **ALTER TABLE** bookstore **ADD PRIMARY KEY** (bookid) ,**MODIFY** price INT NOT NULL;



Q3. WAQ to insert 10 records in the above table using a single query.

A3. **INSERT INTO bookstore(bookid, year, month, volume, author, price)**

VALUES(1, 2017, 12, "Das Kapital volume 1", "Engels", 1200),

(2, 2016, 3, "Das Kapital volume 2", "Engels", 1100),

(3, 2002, 4, "Ignited Minds", "Dr Kalam", 900),

(4, 2018, 12, "The secret", "Danish Kumar", 1400),

(5, 2005, 6, "Luminous Sparks", "Dr Kalam", 850),

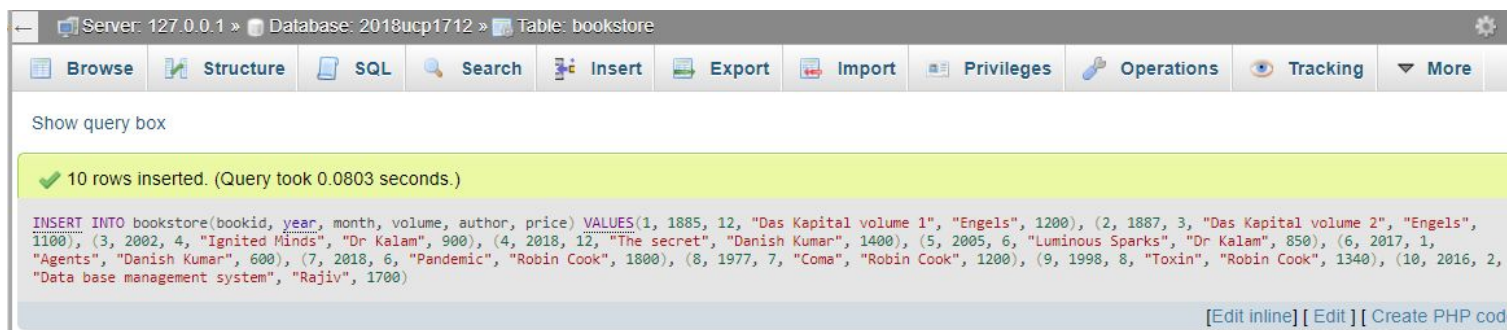
(6, 2017, 1, "Agents", "Danish Kumar", 600),

(7, 2018, 6, "Pandemic", "Robin Cook", 1800),

(8, 2008, 7, "Coma", "Robin Cook", 1200),

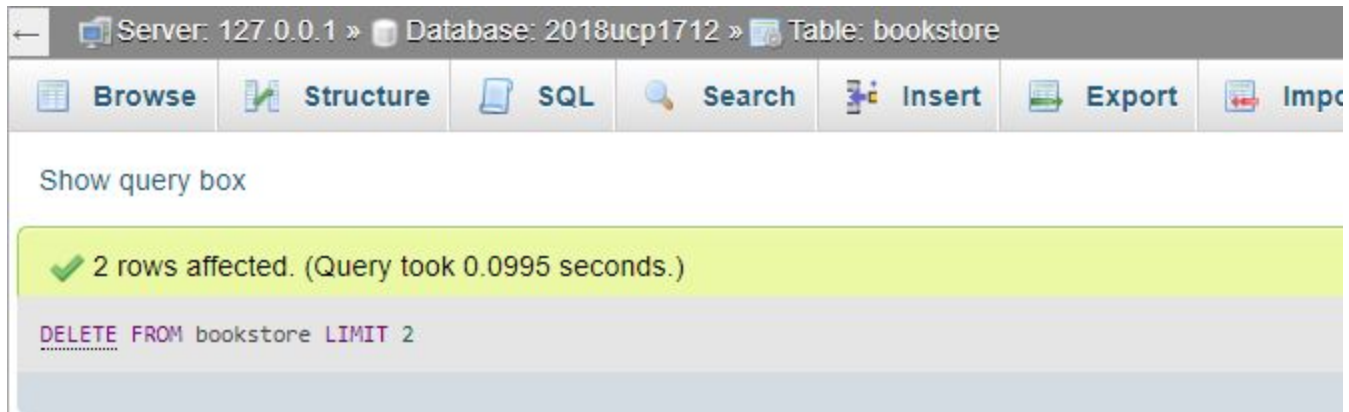
(9, 2019, 8, "Toxin", "Robin Cook", 1340),

(10, 2016, 2, "Database management system", "Rajiv", 1700);



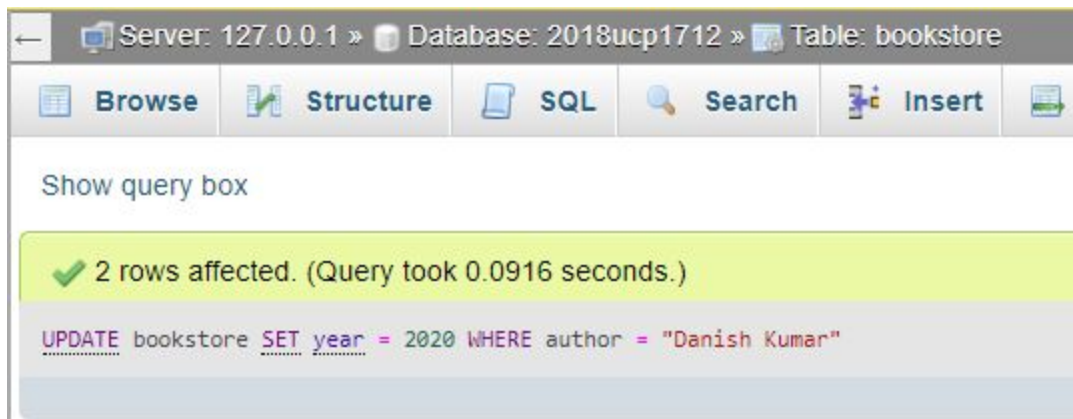
Q4. WAQ to delete top 2 records from the table.

A4. **DELETE FROM bookstore LIMIT 2;**



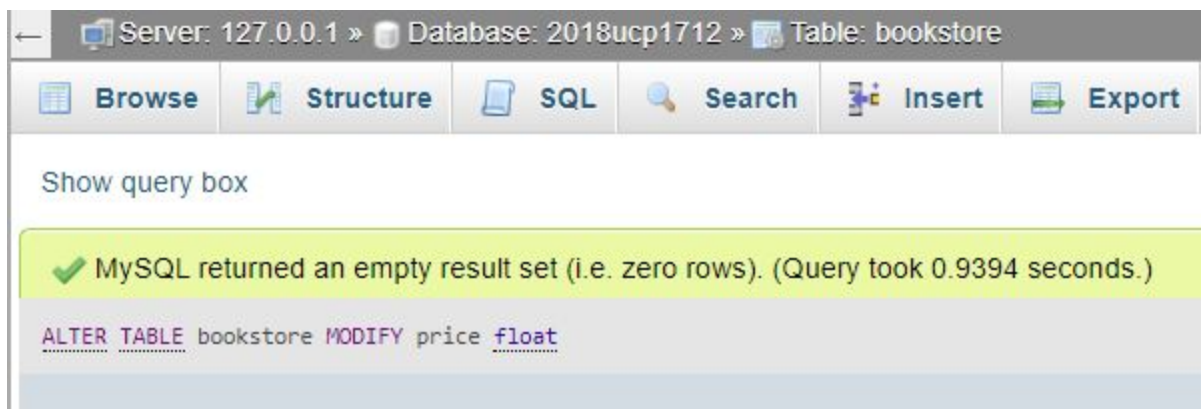
Q5. WAQ to change the "year" for books written by "Danish Kumar" to "2020".

A5. **UPDATE bookstore SET year = 2020 WHERE author = "Danish Kumar";**



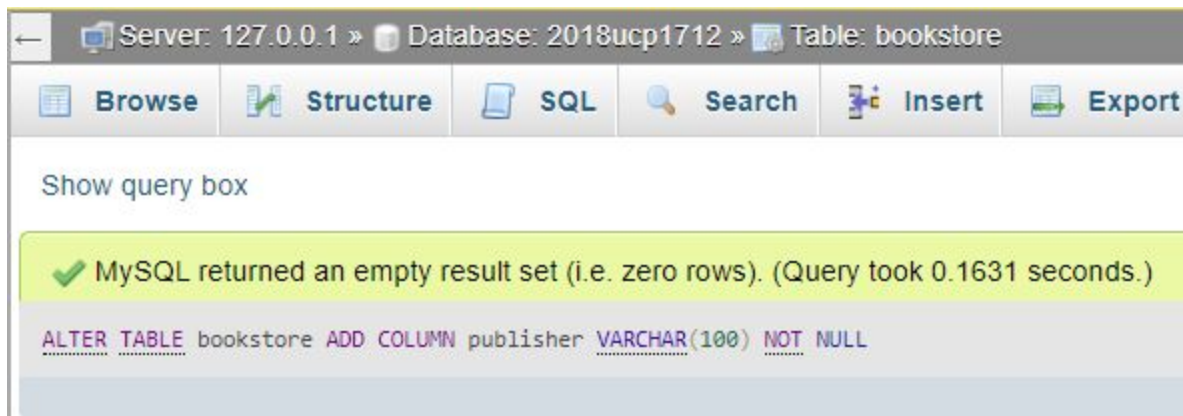
Q6. WAQ to change the data type of "price" column from "INT" to "FLOAT".

A6. **ALTER TABLE bookstore MODIFY price float;**



Q7. WAQ to add a new column "publisher" to the table (this new column must have NOT NULL constraint).

A7. **ALTER TABLE bookstore ADD COLUMN publisher VARCHAR(100) NOT NULL;**



Q8. WAQ to calculate the total number of books sold each month. Order your results chronologically.

A8.

SELECT COUNT(*) as NUM_BOOKS_SOLD, month FROM bookstore GROUP BY month ORDER BY month;

Server: 127.0.0.1 » Database: 2018ucp1712 » Table: bookstore

Browse Structure SQL Search Insert Export

✓ Showing rows 0 - 6 (7 total, Query took 0.0019 seconds.) [month: 1... - 12...]

```
SELECT COUNT(*) as NUM_BOOKS_SOLD, month FROM bookstore GROUP BY month ORDER BY month
```

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this table

+ Options

NUM_BOOKS_SOLD	month
1	1
1	2
1	4
2	6
1	7
1	8
1	12

Q9. Create index using columns "year" and "month" on the table and name the index as "idx_ym"

A9. **CREATE INDEX idx_ym ON bookstore (year, month);**

Server: 127.0.0.1 » Database: 2018ucp1712 » Table: bookstore

Browse Structure SQL Search Insert Export

Show query box



✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3358 seconds.)

```
CREATE INDEX idx_ym ON bookstore (year, month)
```

Q10. WAQ to truncate all records from the table.

A10. **TRUNCATE TABLE bookstore;**

← Server: 127.0.0.1 » Database: 2018ucp1712 » Table: bookstore

 **Browse**  **Structure**  **SQL**  **Search**  **Insert**  **Export** 

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.4322 seconds.)

TRUNCATE TABLE bookstore

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