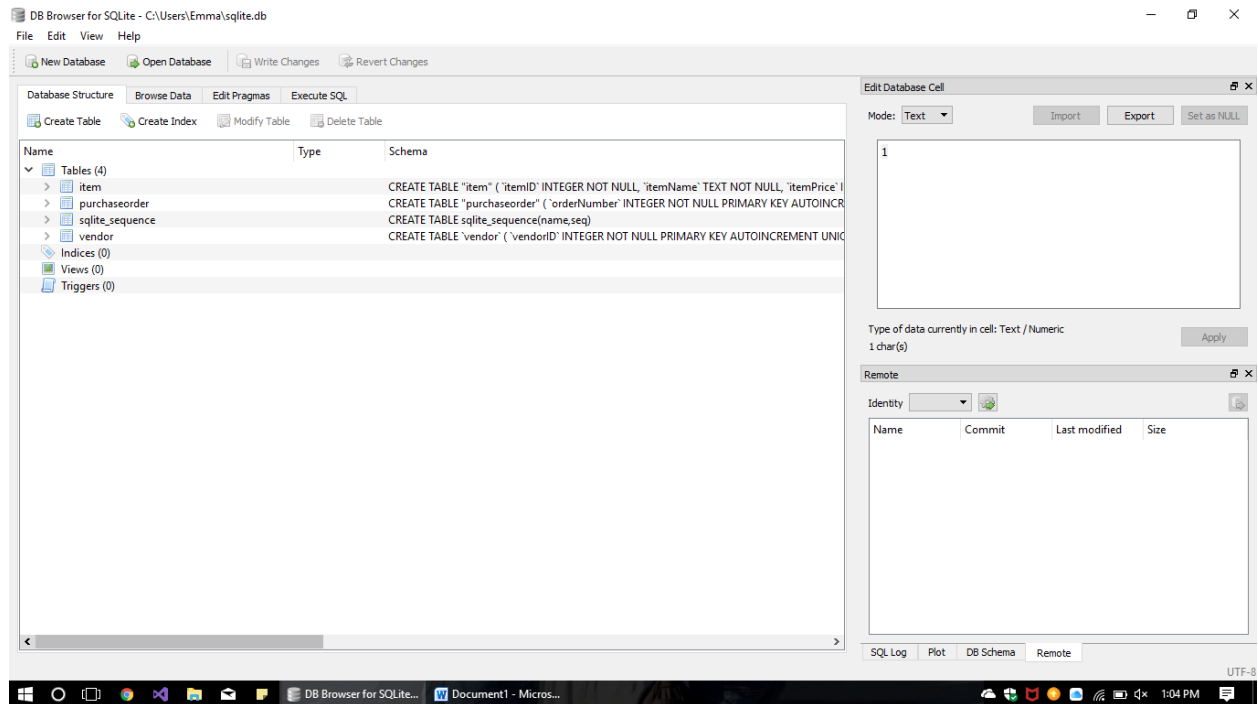


Group 22 – CMPE 272

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Mini Projects Part 1: SQLite Database

Completed Database for Purchase Order Management System



Sample Data

Table: item

DB Browser for SQLite - C:\Users\Emma\sqlite.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragma Execute SQL

Table: item

	ItemID	ItemName	ItemPrice	InStock
Filter	Filter	Filter	Filter	Filter
1	1	iPhone 7	700	Yes
2	2	iPhone 7+	750	No
3	3	iPhone 8	800	Yes
4	4	iPhone 8+	850	Yes
5	5	iPhone X	999	No

1 - 5 of 5

Go to: 1

Mode: Text Import Export Set as NULL

Type of data currently in cell: NULL
0 byte(s)

Remote

Identity

Name	Commit	Last modified	Size
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SQL Log Plot DB Schema Remote

UTF-8

Table: purchaseorder

DB Browser for SQLite - C:\Users\Emma\sqlite.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragma Execute SQL

Table: purchaseorder

	orderNumber	vendorID	itemID	orderDate	orderQty	orderSource	orderStatus
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	1	1	1	11/12/17	4	Online	Canceled
2	2	3	4	11/16/17	2	Offline	Delivered
3	3	2	1	11/16/17	2	Offline	Delivered
4	4	2	2	11/24/17	2	Online	Canceled
5	5	3	5	11/16/17	2	Offline	Canceled

1 - 5 of 5

Go to: 1

Mode: Text Import Export Set as NULL

Type of data currently in cell: NULL
0 byte(s)

Remote

Identity

Name	Commit	Last modified	Size
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SQL Log Plot DB Schema Remote

UTF-8

Table: vendor

The screenshot shows the DB Browser for SQLite application. The 'Database Structure' tab is active, displaying the 'vendor' table. The table has six columns: vendorID, vendorName, vendorAddress, vendorCity, vendorZip, and vendorPhone. The data is as follows:

vendorID	vendorName	vendorAddress	vendorCity	vendorZip	vendorPhone
1	Apple	132 Apple St	Sunnyvale	94085	4087290237
2	Verizon	4367 Fremont...	Fremont	92642	9104730273
3	Smart Sells	473 Smith St	Mountain View	94257	4729297481
4	iPhone Master	573 John St	Santa Clara	84921	4218779213

The 'Edit Database Cell' panel on the right shows the 'Mode' set to 'Text'. The 'Remote' panel is also visible.

Sample Queries

Sample query using SELECT.

The screenshot shows the DB Browser for SQLite application. The 'Execute SQL' tab is active, displaying a sample query:

```
select * from purchaseorder where itemID = 1 and vendorID = 2
```

The query results are displayed in a table with the following columns: orderNumber, vendorID, itemID, orderDate, orderQty, orderSource, and orderStatus. The data is as follows:

orderNumber	vendorID	itemID	orderDate	orderQty	orderSource	orderStatus
1 3	2	1	11/16/17	2	Offline	Delivered

The 'Edit Database Cell' panel on the right shows the 'Mode' set to 'Text'. The 'Remote' panel is also visible.

Sample query using INSERT.

The screenshot shows the DB Browser for SQLite interface. The main window displays the 'Execute SQL' tab with the following SQL query:

```
1 insert into purchaseorder('orderNumber', 'vendorID', 'itemID', 'orderDate', 'orderQty',  
2 'orderSource', 'orderStatus') values (5, 1, 5, '11/16/17', 2, 'Offline', 'Delivered')  
3
```

Below the query editor, a message indicates: "Query executed successfully: insert into purchaseorder('orderNumber', 'vendorID', 'itemID', 'orderDate', 'orderQty', 'orderSource', 'orderStatus') values (5, 1, 5, '11/16/17', 2, 'Offline', 'Delivered') (took 0ms, 1 rows affected)".

On the right side, the 'Edit Database Cell' panel is visible, showing 'Mode: Text' and buttons for 'Import', 'Export', and 'Set as NULL'. Below this, the 'Remote' panel shows a table with columns: Name, Commit, Last modified, and Size.

The taskbar at the bottom shows the Windows Start button, taskbar icons for various applications, and the system clock displaying 1:08 PM.

Sample query using SELECT, ORDER BY, and WHERE.

The screenshot shows the DB Browser for SQLite interface. The main window displays the 'Execute SQL' tab with the following SQL query:

```
1 select * from purchaseorder where itemID < 5 and vendorID > 1 order by itemID
```

Below the query editor, a table displays the results of the query:

	orderNumber	vendorID	itemID	orderDate	orderQty	orderSource	orderStatus
1	3	2	1	11/16/17	2	Offline	Delivered
2	4	2	2	11/24/17	2	Online	Canceled
3	2	3	4	11/16/17	2	Offline	Delivered

Below the table, a message indicates: "3 rows returned in 2ms from: select * from purchaseorder where itemID < 5 and vendorID > 1 order by itemID".

On the right side, the 'Edit Database Cell' panel is visible, showing 'Mode: Text' and buttons for 'Import', 'Export', and 'Set as NULL'. Below this, the 'Remote' panel shows a table with columns: Name, Commit, Last modified, and Size.

The taskbar at the bottom shows the Windows Start button, taskbar icons for various applications, and the system clock displaying 1:11 PM.

Sample query using UPDATE.

The screenshot shows the DB Browser for SQLite interface. The main window displays a query in the SQL editor: `update vendor set vendorName = 'Amazon' where vendorID = 2`. The query has been executed successfully, as indicated by the message: "Query executed successfully: update vendor set vendorName = 'Amazon' where vendorID = 2 (took 39ms, 1 rows affected)". The right-hand pane shows the "Edit Database Cell" dialog, which is currently empty, indicating that the data type is NULL.

DB Browser for SQLite - C:\Users\Emma\sqlite.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragma Execute SQL

SQL 1 SQL 2 SQL 3 SQL 4

```
1 update vendor set vendorName = 'Amazon' where vendorID = 2
```

Query executed successfully: update vendor set vendorName = 'Amazon' where vendorID = 2 (took 39ms, 1 rows affected)

Edit Database Cell

Mode: Text Import Export Set as NULL

Type of data currently in cell: NULL
0 byte(s) Apply

Remote

Identity

Name	Commit	Last modified	Size
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SQL Log Plot DB Schema Remote

UTF-8

Sample query using SELECT and JOIN.

The screenshot shows the DB Browser for SQLite interface. The main window displays a query in the SQL editor: `select * from item, vendor, purchaseorder where item.itemID = purchaseorder.itemID and vendor.vendorID = purchaseorder.vendorID and purchaseorder.orderStatus = 'Delivered'`. The query has been executed successfully, returning 2 rows. The results are displayed in a table with columns: itemID, itemName, itemPrice, inStock, vendorID, vendorName, vendorAddress, vendorCity, vendorZip, vendorPhone, orderNumber, and vendorID. The right-hand pane shows the "Edit Database Cell" dialog, which is currently empty, indicating that the data type is NULL.

DB Browser for SQLite - C:\Users\Emma\sqlite.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragma Execute SQL

SQL 1 SQL 2 SQL 3 SQL 4

```
1 select * from item, vendor, purchaseorder where item.itemID = purchaseorder.itemID
2 and vendor.vendorID = purchaseorder.vendorID and purchaseorder.orderStatus = 'Delivered'
```

itemID	itemName	itemPrice	inStock	vendorID	vendorName	vendorAddress	vendorCity	vendorZip	vendorPhone	orderNumber	vendorID
4	iPhone 8+	850	Yes	3	Smart Sells	473 Smith St	Mountain View	94257	4729297481	2	3
1	iPhone 7	700	Yes	2	Amazon	4367 Fremont St	Fremont	92642	9104730273	3	2

2 rows returned in 2ms from: select * from item, vendor, purchaseorder where item.itemID = purchaseorder.itemID and vendor.vendorID = purchaseorder.vendorID and purchaseorder.orderStatus = 'Delivered'

Edit Database Cell

Mode: Text Import Export Set as NULL

Type of data currently in cell: NULL
0 byte(s) Apply

Remote

Identity

Name	Commit	Last modified	Size
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SQL Log Plot DB Schema Remote

UTF-8

Sample query using SELECT, JOIN, and GROUP BY.

The screenshot shows the DB Browser for SQLite interface. The main window displays a SQL query in the 'Execute SQL' tab:

```
1 select count(purchaseorder.itemID), purchaseorder.orderSource, purchaseorder.orderStatus
2 from purchaseorder group by purchaseorder.orderSource, purchaseorder.orderStatus
3 having count(purchaseorder.itemID) > 1
```

Below the query editor, the results are displayed in a table:

	count(purchaseorder.itemID)	orderSource	orderStatus
1	2	Online	Delivered

At the bottom of the results pane, a message states: "1 rows returned in 3ms from: select count(purchaseorder.itemID), purchaseorder.orderSource, purchaseorder.orderStatus from purchaseorder group by purchaseorder.orderSource, purchaseorder.orderStatus having count(purchaseorder.itemID) > 1".

On the right side, the 'Edit Database Cell' panel is visible, showing 'Mode: Text' and buttons for 'Import', 'Export', and 'Set as NULL'. Below it, the 'Remote' panel shows a table with columns: Name, Commit, Last modified, and Size.

Sample query using ALTER TABLE.

The screenshot shows the DB Browser for SQLite interface. The main window displays a SQL query in the 'Execute SQL' tab:

```
1 alter table item add itemDescription
```

Below the query editor, a message states: "Query executed successfully: alter table item add itemDescription (took 0ms)".

On the right side, the 'Edit Database Cell' panel is visible, showing 'Mode: Text' and buttons for 'Import', 'Export', and 'Set as NULL'. Below it, the 'Remote' panel shows a table with columns: Name, Commit, Last modified, and Size.