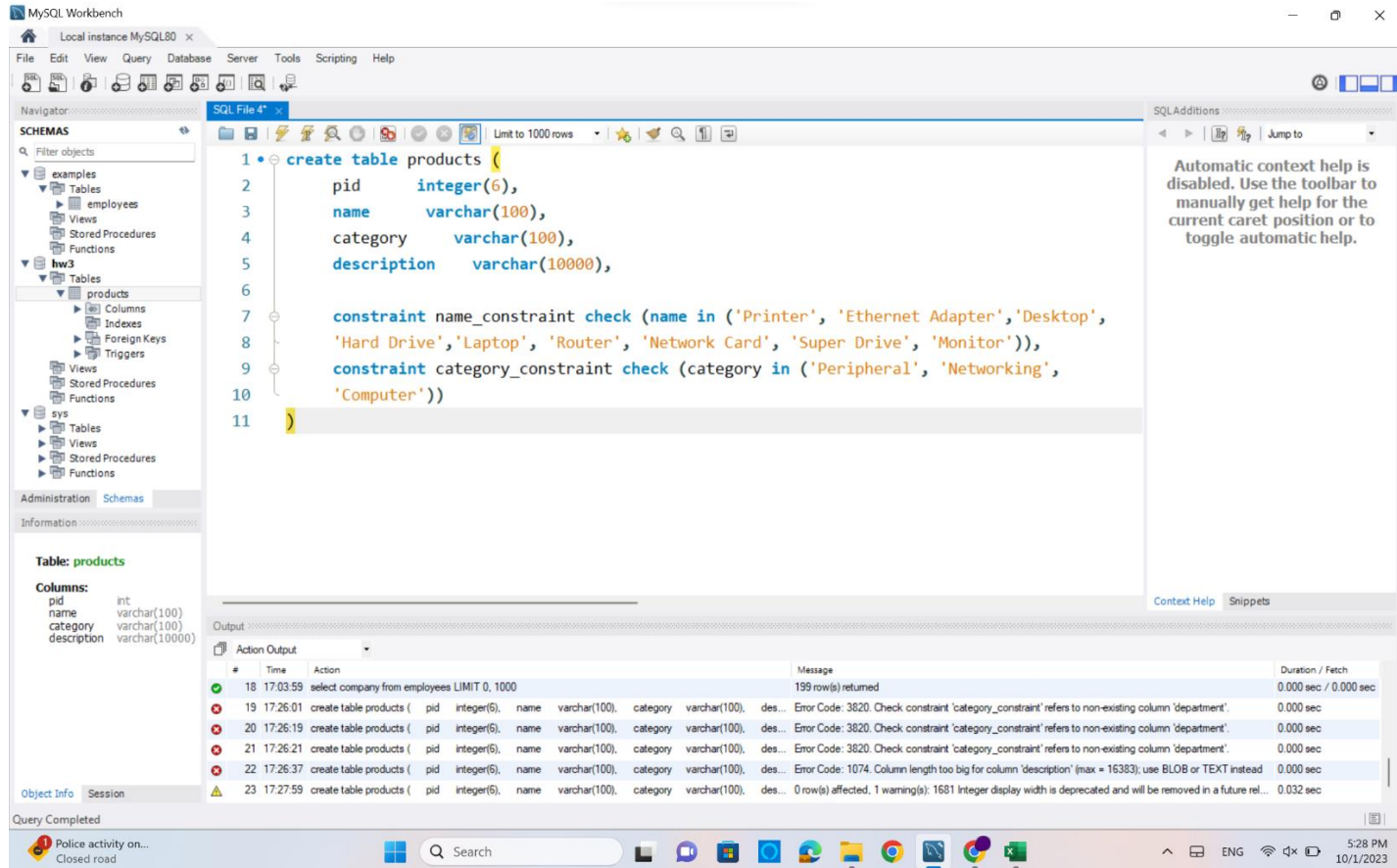


Nadin Musallam

Database Systems – Assignment3

Creating the Products table



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQL File 4*

```
1 • create table products (  
2     pid integer(6),  
3     name varchar(100),  
4     category varchar(100),  
5     description varchar(10000),  
6  
7     constraint name_constraint check (name in ('Printer', 'Ethernet Adapter', 'Desktop',  
8     'Hard Drive', 'Laptop', 'Router', 'Network Card', 'Super Drive', 'Monitor')),  
9     constraint category_constraint check (category in ('Peripheral', 'Networking',  
10    'Computer'))  
11 )
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Table: products

Columns:

- pid int
- name varchar(100)
- category varchar(100)
- description varchar(10000)

Output

#	Time	Action	Message	Duration / Fetch
18	17:03:59	select company from employees LIMIT 0, 1000	199 row(s) returned	0.000 sec / 0.000 sec
19	17:26:01	create table products (pid integer(6), name varchar(100), category varchar(100), des...	Error Code: 3820. Check constraint 'category_constraint' refers to non-existing column 'department'.	0.000 sec
20	17:26:19	create table products (pid integer(6), name varchar(100), category varchar(100), des...	Error Code: 3820. Check constraint 'category_constraint' refers to non-existing column 'department'.	0.000 sec
21	17:26:21	create table products (pid integer(6), name varchar(100), category varchar(100), des...	Error Code: 3820. Check constraint 'category_constraint' refers to non-existing column 'department'.	0.000 sec
22	17:26:37	create table products (pid integer(6), name varchar(100), category varchar(100), des...	Error Code: 1074. Column length too big for column 'description' (max = 16383); use BLOB or TEXT instead	0.000 sec
23	17:27:59	create table products (pid integer(6), name varchar(100), category varchar(100), des...	0 row(s) affected, 1 warning(s): 1681 Integer display width is deprecated and will be removed in a future rel...	0.032 sec

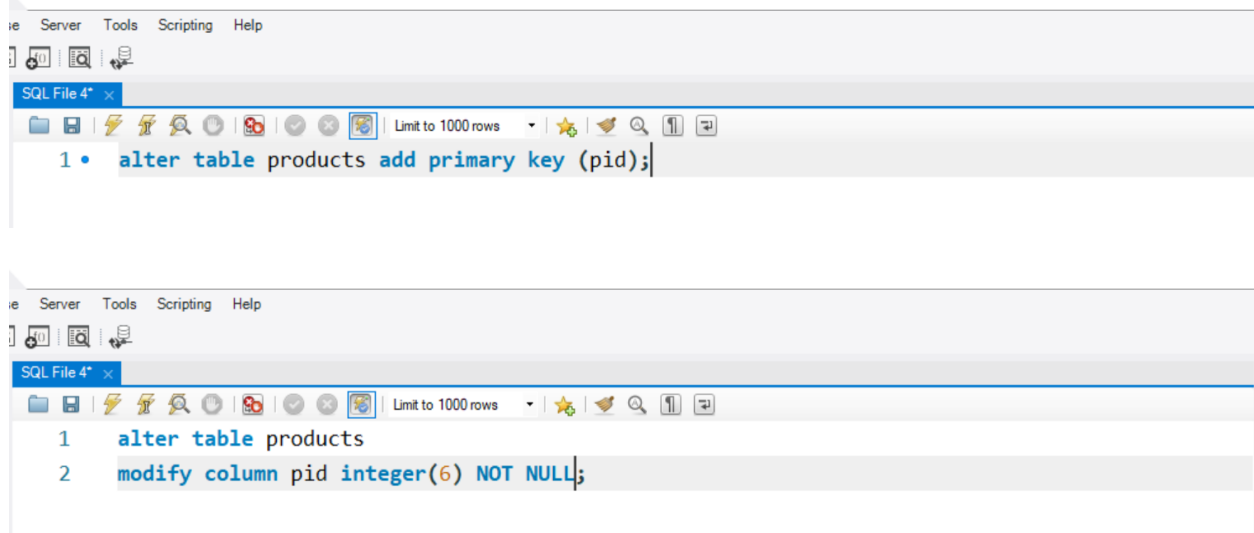
Object Info Session

Query Completed

Police activity on... Closed road

Search

ENG 5:28 PM 10/1/2023



Server Tools Scripting Help

SQL File 4*

```
1 • alter table products add primary key (pid);
```

Server Tools Scripting Help

SQL File 4*

```
1 alter table products  
2 modify column pid integer(6) NOT NULL;
```

Creating the Orders table

The screenshot shows the MySQL Workbench interface. The central editor displays the following SQL code:

```
1 • create table orders
2 (
3     oid integer(4) not null,
4     shipping_method varchar(10),
5     shipping_cost decimal(4,2),
6     constraint shipping_method_constraint check (shipping_method in ('UPS', 'FedEx', 'USPS'))
7     constraint shipping_cost_constraint check (shipping_cost between 0 and 500),
8     primary key(oid)
9 );
```

The left sidebar shows the 'SCHEMAS' panel with a tree view containing 'examples', 'hw3', 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'Administration' tab is active, showing 'Schema: hw3'.

The bottom 'Output' panel shows a list of actions and their results:

#	Time	Action	Message	Duration / Fetch	
43	18:27:13	create table orders (	oid integer(4) not null, shipping_method varchar(5), shipping_cost number(4,2)...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'oid integer(4) not null, shipping_method varchar(5), shipping_cost number(4,2)...' at line 1	0.000 sec
44	18:27:56	create table orders (	oid integer(4) not null, shipping_method varchar(5), shipping_cost number(4,2)...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'oid integer(4) not null, shipping_method varchar(5), shipping_cost number(4,2)...' at line 1	0.000 sec
45	18:28:12	create table orders (	oid number(4) not null, shipping_method varchar(5), shipping_cost number(4,2)...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'oid number(4) not null, shipping_method varchar(5), shipping_cost number(4,2)...' at line 1	0.000 sec
46	18:29:10	create table orders (	oid number(4) not null, shipping_method varchar(10), shipping_cost number(4,2)...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'oid number(4) not null, shipping_method varchar(10), shipping_cost number(4,2)...' at line 1	0.000 sec
47	18:29:11	create table orders (	oid number(4) not null, shipping_method varchar(10), shipping_cost number(4,2)...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'oid number(4) not null, shipping_method varchar(10), shipping_cost number(4,2)...' at line 1	0.015 sec
48	18:34:25	create table orders (	oid integer(4) not null, shipping_method varchar(10), shipping_cost decimal(4,2)...	0 row(s) affected. 1 warning(s): 1661 Integer display width is deprecated and will be removed in a future release	0.032 sec

The status bar at the bottom indicates 'Query Completed'.

Creating the Merchants table

The screenshot shows the MySQL Workbench interface with the 'create table merchants' SQL statement entered in the SQL Editor. The statement is as follows:

```
1 • create table merchants
2 (
3     mid integer(4) not null,
4     name varchar(40),
5     city varchar(100),
6     state varchar(40),
7     primary key(mid)
8 );
```

The left sidebar shows the 'SCHEMAS' pane with the 'hw3' database selected. The 'Output' pane at the bottom shows a list of actions and their results, including the successful creation of the 'merchants' table.

Output Log:

#	Time	Action	Message	Duration / Fetch
44	18:27:56	create table orders (oid integer(4) not null, shipping_method	create table orders	0.000 sec
45	18:28:12	create table orders (oid number(4) not null, shipping_method		0.000 sec
46	18:29:10	create table orders (oid number(4) not null, shipping_method	oid integer(4) not null, shipping_method varchar(5),	0.000 sec
47	18:29:11	create table orders (oid number(4) not null, shipping_method	shipping_cost number(4,2),	0.015 sec
48	18:34:25	create table orders (oid integer(4) not null, shipping_method v	constraint shipping_method_constraint check (shipping_method in ('UPS', 'FedEx', 'USPS')),	0.032 sec
49	18:43:14	create table merchants (mid integer(4) not null, name varchar	primary key(oid)	0.016 sec

The bottom status bar indicates 'Query Completed'.

Creating the Sell table

The screenshot shows the MySQL Workbench interface with the 'Query 1' editor open. The SQL code in the editor is as follows:

```
1 • create table sell
2 (
3     mid integer(4) not null,
4     pid integer(6) not null,
5     price decimal(10,2),
6     quantity_available integer(5),
7     constraint price_constraint check (price between 0 and 100000),
8     constraint quantity_available_constraint check (quantity_available between 0 and 1000),
9     foreign key(mid) references merchants(mid),
10    foreign key(pid) references products(pid)
11 );
12
13
```

The left sidebar shows the 'SCHEMAS' panel with a tree view containing 'examples', 'hw3', 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'Tables' section is expanded, showing 'contain'. The 'Information' panel below it shows 'Table: contain' with columns 'oid' (int) and 'pid' (int).

The right sidebar shows the 'SQL Additions' panel with a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

The bottom panel shows the 'Output' window with the following log:

#	Time	Action	Message	Duration / Fetch
1	12:29:07	DROP TABLE 'hw3'.'sell'	0 row(s) affected	0.031 sec
2	12:29:36	select * from contain LIMIT 0, 2000	1830 row(s) returned	0.000 sec / 0.000 sec
3	12:37:37	create table sell (mid integer(4) not null, pid integer(5) not null, price decimal(10,2), quantity_available...	0 row(s) affected, 3 warning(s): 1681 Integer display width is deprecated and will be removed in a future rele...	0.046 sec

The bottom status bar shows the system clock as 12:38 PM on 10/2/2023.

Creating the Customers table

The screenshot displays the MySQL Workbench interface. The central SQL editor contains the following SQL code:

```
1 • create table customers
2 (
3     cid integer(4) not null,
4     fullname varchar(40),
5     city varchar(40),
6     state varchar(40),
7     primary key(cid)
8 );
```

The left sidebar shows the 'SCHEMAS' tree with a search filter. The 'examples' schema is expanded, showing sub-schemas like 'hw3', 'merchants', 'orders', 'products', 'sell', 'Views', 'Stored Procedures', and 'Functions'. The 'Information' tab at the bottom left shows 'No object selected'.

The right sidebar features a 'SQL Additions' panel with a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

The bottom 'Output' window shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	20:33:37	create table customers (cid integer(4) not null, fullname varchar(40), city varchar(40), state v...	0 row(s) affected, 1 warning(s): 1681 Integer display width is deprecated and will be removed in a future rele...	0.046 sec

The Windows taskbar at the bottom shows the system clock as 8:33 PM on 10/1/2023.

Creating the Contain table

The screenshot shows the MySQL Workbench interface with the 'SQL File 3' editor open. The SQL code in the editor is as follows:

```
1 create table contain
2 (
3     oid integer(4) not null,
4     pid integer(6) not null,
5     foreign key(oid) references orders(oid),
6     foreign key(pid) references products(pid)
7 );
```

The left sidebar shows the 'SCHEMAS' panel with a tree view containing 'examples', 'hw3', 'Tables' (with sub-items: customers, merchants, orders, products, sell), 'Views', 'Stored Procedures', 'Functions', and 'sys'. The 'Table: sell' is selected, and its columns are listed: mid (int), pid (int), price (decimal(4)), and quantity_available (int).

The right sidebar shows the 'SQL Additions' panel with a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

The bottom panel shows the 'Output' window with the following data:

#	Time	Action	Message	Duration / Fetch
7	20:35:08	DEALLOCATE PREPARE stmt	OK	0.000 sec
8	20:36:17	select * from merchants LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
9	20:36:41	select * from orders LIMIT 0, 1000	500 row(s) returned	0.015 sec / 0.000 sec
10	20:37:23	select * from products LIMIT 0, 1000	32 row(s) returned	0.015 sec / 0.000 sec
11	20:37:32	select * from sell LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
12	20:43:39	create table contain (oid integer(4) not null, pid integer(6) not null, foreign key(oid) references or...	0 row(s) affected, 2 warning(s): 1681 Integer display width is deprecated and will be removed in a future rel...	0.047 sec

The bottom status bar shows the system temperature as 68°F, a search bar, and the system clock as 8:43 PM on 10/1/2023.

Create the Place table

The screenshot shows the MySQL Workbench interface with the 'SQL File 3' editor open. The editor contains the following SQL code:

```
1 create table place
2 (
3     cid integer(4) not null,
4     oid integer(4) not null,
5     order_date date,
6     foreign key(cid) references customers(cid),
7     foreign key(oid) references orders(oid)
8 );
9
```

The left sidebar shows the 'SCHEMAS' panel with a tree view of the database structure. The 'sell' table is selected, and its columns are listed below:

Table: sell

Columns:

- mid int
- pid int
- price decimal(10,2)
- quantity_available int

The bottom panel shows the 'Output' window with the following log:

#	Time	Action	Message	Duration / Fetch
6	12:38:52	SHOW SESSION VARIABLES LIKE lower_case_table_names'	OK	0.000 sec
7	12:38:52	SHOW COLUMNS FROM 'hw3'. 'sell'	OK	0.000 sec
8	12:39:01	PREPARE stmt FROM 'INSERT INTO 'hw3'. 'sell' ('mid','pid','price','quantity_available') VALUES(?, ?, ?, ?)'	OK	0.000 sec
9	12:39:01	DEALLOCATE PREPARE stmt	OK	0.000 sec
10	12:39:40	select * from sell LIMIT 0, 2000	132 row(s) returned	0.000 sec / 0.000 sec
11	13:26:04	create table place (cid integer(4) not null, oid integer(4) not null, order_date date, foreign key(cid) r...	0 row(s) affected, 2 warning(s): 1681 Integer display width is deprecated and will be removed in a future rel...	0.047 sec

The bottom status bar shows the system clock at 1:26 PM on 10/2/2023.