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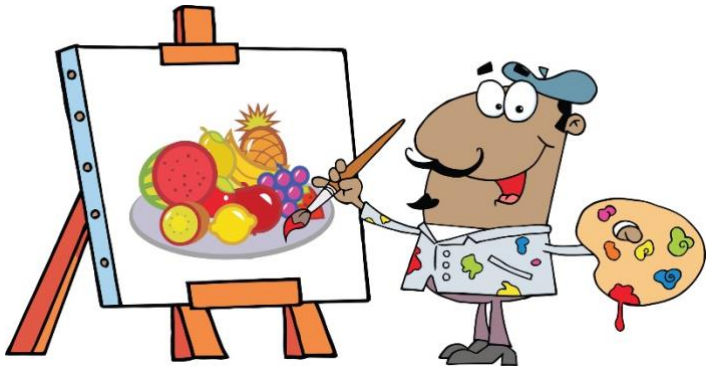
Pretty Prints III



Assignment Description: In this assignment, a script file should be created to contain a set a SQL statements for the Pretty Prints Company to better manage their business. Use the database created for Pretty Prints in Assignment 2. Include the SQL statements to satisfy the following queries.

The following queries should be included in the script:

1. Create a view named Under_100. It consists of the item_id, title, artist, unit_price and order_qty for every print with a unit_price under 100 dollars.

   ```
   CREATE VIEW Under_100 as
   SELECT items.item_id, title, artist, unit_price, order_qty
   FROM items, orderline WHERE items.item_id = orderline.item_id and unit_price < 100.00;
   ```

2. Create a view named Allen. It consists of the customer_id, customer_name, customer_phone, title, and artist of each print ordered.

   ```
   CREATE VIEW Allen AS
   SELECT customers.customer_id, customer_name, customer_phone, title, artist FROM customers, items, orderline, orders
   WHERE customers.customer_id = orders.customer_id
   AND orders.order_id = orderline.order_id
   AND orderline.item_id = items.item_id;
   ```

3. Create a view named orders. It consists of the item_id, title, artist, unit_price and order_qty for every print ordered in the range of 2014-01-01 and 2014-02-28.

```
CREATE VIEW orders_view AS

SELECT orderline.item_id, title, artist, unit_price, order_qty FROM items, orderline, orders
WHERE items.item_id = orderline.item_id
AND orderline.order_id = orders.order_id

AND order_date BETWEEN '2014-01-01' AND '2014-02-28';
```

4. Create a view named zip_27. It consists of the customer_name, customer_phone, title, artist and date_shipped of each print ordered by a customer whose zip code begins with 27.

```
CREATE VIEW zip_27 AS
SELECT customer_name, customer_phone, title, artist, ship_date FROM customers, items, orders, orderline
WHERE customers.customer_id = orders.customer_id
AND orders.order_id = orderline.order_id
AND orderline.item_id = items.item_id
AND customer_zip LIKE '27%';
```

5. Create the following indexes. Use the indicated index name.
    a. Create an index named customer_id on the customer_id field in the customers table.
    b. Create an index named name on the customer_name field in the customers table.
    c. Create an index named shipped on the customer_id and ship_date in the orders table.

a. CREATE INDEX customer_id

ON customers (customer_id);

b. CREATE INDEX name

ON customers (customer_name);

c. CREATE INDEX shipped

ON orders (customer_id , ship_date);

6. Drop the name index.

DROP INDEX name ON customers;

7. Specify the integrity constraint that the unit_price of any print must be more than $35.

ALTER TABLE items

ADD CHECK (unit_price > 35.00);

8. Create the following foreign keys within the prints database.
    a. customer_id is a foreign key in the orders table.
    b. Item_id is a foreign key in the orderline table.

a. ALTER TABLE orders

a.1 ADD FOREIGN KEY(customer_id) REFERENCES customers(customer_id);

a. ALTER TABLE orderline
ADD FOREIGN KEY(item_id) REFERENCES items(item_id);

9. Add to the items table a new character field named type that is one character in length.

ALTER TABLE items

ADD type CHAR(1);

10. Change the type field in the items table to M for the print titled Skies Above.

```
UPDATE items
SET TYPE='M'
WHERE title = 'Skies Above';
```

11. Change the length of the artist field in the items table to 30.

ALTER TABLE items

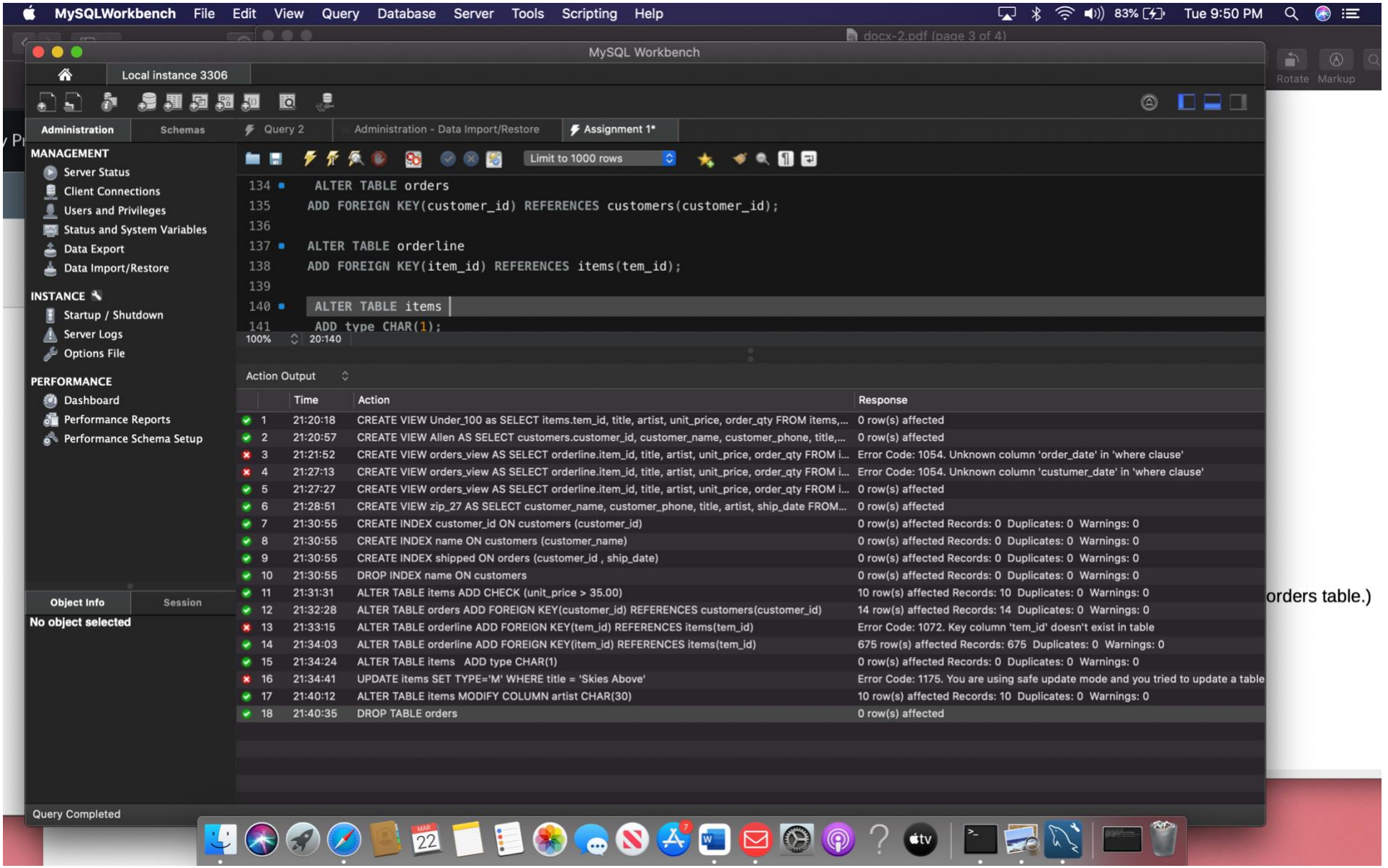
MODIFY COLUMN artist CHAR(30);

12. What command would you use to delete the orders table from the prints database? (Do not delete the orders table.)

DROP TABLE orders;

REQUIREMENTS:

- Each student must work independently on this assignment. No group work is allowed.
- Submit completed work into Canvas.
- Take a screenshot of the submission verification in the event you need proof of submission.


MySQLWorkbench File Edit View Query Database Server Tools Scripting Help
Tue 9:50 PM
MySQL Workbench
Local instance 3306
Administration
Schemas
Query 2
Administration - Data Import/Restore
Assignment 1*
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Object Info
Session
No object selected
Limit to 1000 rows
134 ALTER TABLE orders
135 ADD FOREIGN KEY(customer_id) REFERENCES customers(customer_id);
136
137 ALTER TABLE orderline
138 ADD FOREIGN KEY(item_id) REFERENCES items(tem_id);
139
140 ALTER TABLE items
141 ADD type CHAR(1);
100%
20:140
Action Output
Time
Action
Response
1 21:20:18 CREATE VIEW Under_100 as SELECT items.tem_id, title, artist, unit_price, order_qty FROM items,... 0 row(s) affected
2 21:20:57 CREATE VIEW Allen AS SELECT customers.customer_id, customer_name, customer_phone, title,... 0 row(s) affected
3 21:21:52 CREATE VIEW orders_view AS SELECT orderline.item_id, title, artist, unit_price, order_qty FROM i... Error Code: 1054. Unknown column 'order_date' in 'where clause'
4 21:27:13 CREATE VIEW orders_view AS SELECT orderline.item_id, title, artist, unit_price, order_qty FROM i... Error Code: 1054. Unknown column 'custumer_date' in 'where clause'
5 21:27:27 CREATE VIEW orders_view AS SELECT orderline.item_id, title, artist, unit_price, order_qty FROM i... 0 row(s) affected
6 21:28:51 CREATE VIEW zip_27 AS SELECT customer_name, customer_phone, title, artist, ship_date FROM... 0 row(s) affected
7 21:30:55 CREATE INDEX customer_id ON customers (customer_id) 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
8 21:30:55 CREATE INDEX name ON customers (customer_name) 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
9 21:30:55 CREATE INDEX shipped ON orders (customer_id , ship_date) 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
10 21:30:55 DROP INDEX name ON customers 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
11 21:31:31 ALTER TABLE items ADD CHECK (unit_price > 35.00) 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
12 21:32:28 ALTER TABLE orders ADD FOREIGN KEY(customer_id) REFERENCES customers(customer_id) 14 row(s) affected Records: 14 Duplicates: 0 Warnings: 0
13 21:33:15 ALTER TABLE orderline ADD FOREIGN KEY(tem_id) REFERENCES items(tem_id) Error Code: 1072. Key column 'tem_id' doesn't exist in table
14 21:34:03 ALTER TABLE orderline ADD FOREIGN KEY(item_id) REFERENCES items(tem_id) 675 row(s) affected Records: 675 Duplicates: 0 Warnings: 0
15 21:34:24 ALTER TABLE items ADD type CHAR(1) 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
16 21:34:41 UPDATE items SET TYPE='M' WHERE title = 'Skies Above' Error Code: 1175. You are using safe update mode and you tried to update a table
17 21:40:12 ALTER TABLE items MODIFY COLUMN artist CHAR(30) 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
18 21:40:35 DROP TABLE orders 0 row(s) affected
Query Completed
orders table.)