

Jesse Russell
IA 385
Dr. Jie Cao
Week 5 Exercise

Q1. Insert the missing parts in the JOIN clause to join the two tables Orders and Customers, using the CustomerID field in both tables as the relationship between the two tables.

Screenshots:

```
SELECT *  
FROM Orders  
LEFT JOIN Customers  
ON Orders.CustomerID=Customers.CustomerID;
```

Explanation:

I filled in the blank to join the two tables with “ON Orders.CustomerID=Customers.CustomerID”

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Q2. Choose the correct JOIN clause to select all records from the two tables where there is a match in both tables.

Screenshots:

```
SELECT *  
FROM Orders  
INNER JOIN Customers  
ON Orders.CustomerID=Customers.CustomerID;
```

Explanation:

I filled in the blank to select the records with “INNER JOIN Customers”

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Q3. Choose the correct JOIN clause to select all the records from the Customers table plus all the matches in the Orders table.

Screenshots:

```
SELECT *  
FROM Orders  
RIGHT JOIN Customers  
ON Orders.CustomerID=Customers.CustomerID;
```

Explanation:

I filled in the blank with “RIGHT JOIN Customers” to select the records

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Q4. List the number of customers in each country.

Screenshots:

```
SELECT COUNT(CustomerID),  
Country  
FROM Customers  
GROUP BY Country;
```

Explanation:

I filled in the blank with “GROUP BY Country” to list the number of customers in each country.

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Q5. List the number of customers in each country, ordered by the country with the most customers first.

Screenshots:

```
SELECT COUNT(CustomerID),  
Country  
FROM Customers  
GROUP BY Country  
ORDER BY COUNT(CustomerID) DESC;
```

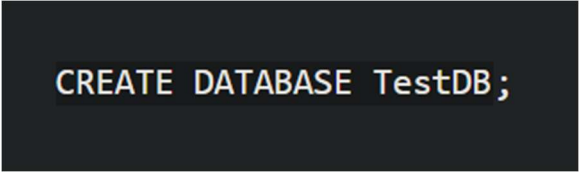
Explanation:

I filled in the blank with “GROUP BY Country ORDER BY COUNT(CustomerID) DESC” to list the number of customers in each country.

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Q6. Write the correct SQL statement to create a new database called testDB.

Screenshots:



```
CREATE DATABASE TestDB;
```

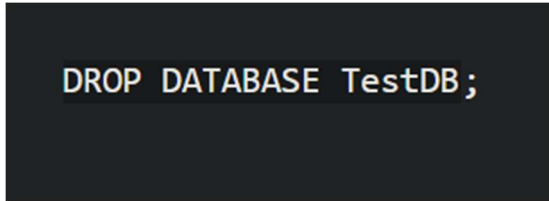
Explanation:

I filled in the blank with “CREATE DATABASE TestDB” to create the database

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Q7. Write the correct SQL statement to delete a database called testDB.

Screenshots:

A screenshot of a dark-themed code editor showing the SQL statement "DROP DATABASE TestDB;" in a light-colored monospace font. The text is centered within a dark rectangular box.

Explanation:

I filled in the blank with “DROP DATABASE TestDB” to delete the database

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Q8. Write the correct SQL statement to create a new table called Persons.

Screenshots:

```
CREATE TABLE Persons (  
    PersonID int,  
    LastName varchar(255),  
    FirstName varchar(255),  
    Address varchar(255),  
    City varchar(255)  
);
```

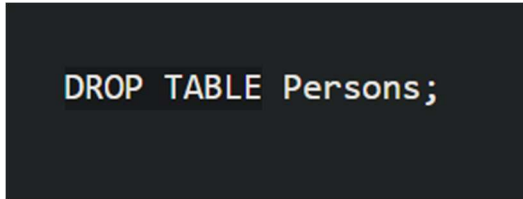
Explanation:

I filled in the blank with “CREATE TABLE Persons” to create the table.

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Q9. Write the correct SQL statement to delete a table called Persons.

Screenshots:

A screenshot of a dark-themed code editor showing the SQL statement "DROP TABLE Persons;" in a light-colored monospace font. The text is centered within a dark rectangular box.

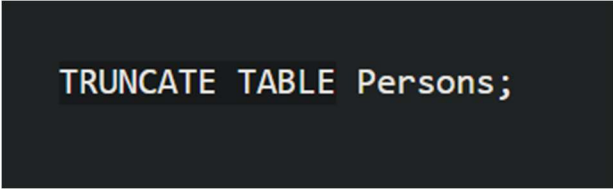
Explanation:

I filled in the blank with “DROP TABLE Persons” to delete the table.

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Q10. Use the TRUNCATE statement to delete all data inside a table.

Screenshots:



```
TRUNCATE TABLE Persons;
```

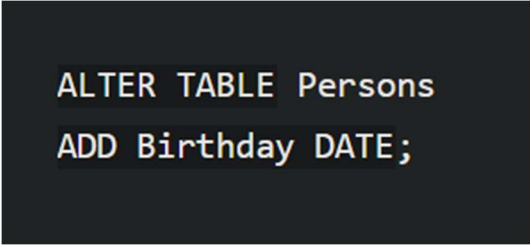
Explanation:

I filled in the blank with “TRUNCATE TABLE Persons” to delete the data in the table.

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Q11. Add a column of type DATE called Birthday.

Screenshots:



```
ALTER TABLE Persons  
ADD Birthday DATE;
```

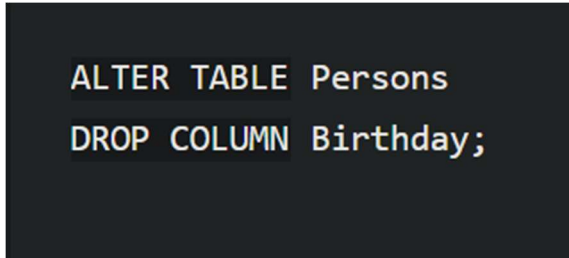
Explanation:

I filled in the blank with “ALTER TABLE Persons ADD Birthday DATE” to add the column

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Q12. Delete the column Birthday from the Persons table.

Screenshots:

A screenshot of a dark-themed code editor showing two lines of SQL code. The first line is "ALTER TABLE Persons" and the second line is "DROP COLUMN Birthday;". Both lines are highlighted with a light blue background.

```
ALTER TABLE Persons  
DROP COLUMN Birthday;
```

Explanation:

I filled in the blank with “ALTER TABLE Persons DROP COLUMN Birthday” to delete the column