

Exercise # 1

The screenshot displays the MySQL Workbench interface on the left and a PDF document on the right. The Workbench window shows a SQL script for creating a database schema and inserting data. The PDF document, titled 'EXERCISE 1', provides instructions for creating a database scheme and inserting data.

MySQL Workbench SQL Script:

```
4 * USE hotelmanagementsystem;
5
6 * CREATE TABLE customers (
7   Cust_ID int(11) PRIMARY KEY,
8   Cust_Name varchar(255) DEFAULT NULL,
9   Cust_City varchar(20) DEFAULT NULL,
10  Cust_RoomNo int(10) DEFAULT NULL,
11  CheckIn_Time DATETIME DEFAULT NULL
12 );
13
14 * DROP TABLE customers;
15
16 * DESCRIBE customers;
17
18 * INSERT INTO customers (Cust_ID, Cust_Name, Cust_City, Cust_RoomNo, CheckIn_Time) VALUES
19 (1, 'Alfreds Futterkiste', 'Berlin', '12209', '2008-11-11 13:23:44'),
20 (2, 'Ana Trujillo', 'México D.F.', '05021', '2008-11-09 15:45:21'),
21 (3, 'Antonio Moreno', 'México D.F.', '05023', '2008-11-11 11:12:01'),
22 (4, 'Thomas Hardy', 'London', '13414', '2008-11-11 11:12:01'),
23 (5, 'Christina Berglund', 'Luleå', '95822', '2008-10-29 14:56:59');
24
25 * SELECT * FROM customers;
```

MySQL Workbench Output:

Cust_ID	Cust_Name	Cust_City	Cust_RoomNo	CheckIn_Time
1	Alfreds Futterkiste	Berlin	12209	2008-11-11 13:23:44
2	Ana Trujillo	México D.F.	5021	2008-11-09 15:45:21
3	Antonio Moreno	México D.F.	5023	2008-11-11 11:12:01
4	Thomas Hardy	London	13414	2008-11-11 11:12:01
5	Christina Berglund	Luleå	95822	2008-10-29 14:56:59

EXERCISE 1
Learn and implement database creation.

CREATE A DATABASE SCHEME AND NAMED IT AS HOTEL MANAGEMENT SYSTEM,

ACTIONS TO BE TAKEN:

Create Table Customers, with the following attributes:

• Column 1: Cust_ID (Type - Integer) [Primary Key, Not Null]

• Column 2: Cust_Name (Type - Varchar)

• Column 3: Cust_City (Type - Varchar)

• Column 4: Cust_RoomNo (Type - Integer)

• Column 5: CheckIn_Time (Type - Date/Time)

Insert any 5 random data into it and Print the whole Table data.

Exercise # 2

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Assignment_Database SQL File 4* SQL File 4*

Limit to 1000 rows

```
1 * USE ecommercewebsite;
2
3 # Exercise # 2
4
5 # Q-1 Print Distinct City from Table Customers and Print Count Distinct City from Table Customers.
6 * SELECT City, COUNT(DISTINCT City) FROM Customers;
7
8 # Q-2 Write a SQL query to get the least number of quantities and the highest number of quantities bought by the user consider the OrderDetails Table.
9 * SELECT OrderID, MAX(Quantity), MIN(Quantity)
10 FROM order_details
11 GROUP BY orderID;
12
13 # Q-3 Print the total and an average number of quantities ordered by users, consider the OrderDetails Table
14 * SELECT OrderID, SUM(Quantity), AVG(Quantity)
15 FROM order_details
16 GROUP BY orderID;
17
18 # Q-4 Print name of the product which is present at the 5th position till the 15th position from Products table, use LIMIT keyword.
19 * select ProductName
20 from products
21 limit 5, 10;
22
23 # Q-5 Write a SQL query for all the details of the supplier whose name consists of "A" at the second position from the Suppliers table.
24 * SELECT * FROM suppliers
25 WHERE LOCATE('A', SupplierName, 2);
26
27 # Q-6 Print the details of the customer who doesn't stay in the USA and Canada from the Customers table.
28 * SELECT * FROM customers
29 where not country="USA" or country="Canada";
30
```

Output

#	Time	Action	Message	Duration / Fetch
72	16:23:37	SELECT DISTINCT City, COUNT(customerId) FROM Customers LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
73	16:24:27	SELECT COUNT(City), DISTINCT City FROM Customers	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 ne...	0.000 sec
74	16:25:35	SELECT DISTINCT City, COUNT(City) FROM Customers GROUP BY City LIMIT 0, 1000	69 row(s) returned	0.000 sec / 0.000 sec
75	16:27:48	SELECT * FROM employees WHERE NOT FirstName="Sanjay" OR "Sonia" LIMIT 0, 1000	10 row(s) returned	0.063 sec / 0.000 sec
76	16:30:52	CREATE TABLE SupplierDetail AS SELECT * FROM Suppliers	29 row(s) affected Records: 29 Duplicates: 0 Warnings: 0	0.109 sec
77	16:32:50	DELETE FROM customers WHERE Country = "Venezuela"	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE that uses a KEY column. To disable safe mode, t...	0.000 sec

Object Info Session

4:34 PM 4/5/2022

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Assignment_Database SQL File 4* SQL File 4*

Limit to 1000 rows

```
27 # Q-6 Print the details of the customer who doesn't stay in the USA and Canada from the Customers table.
28 * SELECT * FROM customers
29 where not country="USA" or country="Canada";
30
31 # Q-7 Print the details of all the orders which were placed between the year 2020 to 2021 also print the same in descending order from the OrderDetails table.
32 * SELECT * FROM order_details
33 INNER JOIN orders ON
34 order_details.OrderID = orders.OrderID
35 WHERE OrderDate BETWEEN '2020-01-01' AND '2021-12-31';
36
37 # Q-8 Write a query to show the distinct city and their count from the Customers table.
38 * SELECT DISTINCT City, COUNT(City)
39 FROM Customers
40 GROUP BY City;
41
42 # Q-9 Write a query to fetch details of all employees excluding the employees with first names, "Sanjay" and "Sonia" from the Employees table.
43 * SELECT * FROM employees
44 WHERE NOT FirstName="Sanjay" OR "Sonia";
45 # Q-10 Duplicate a table as similar to the Suppliers table and name it as SupplierDetail.
46 * CREATE TABLE SupplierDetail
47 AS
48 SELECT * FROM Suppliers;
49
50 # Q-11 Delete customer details whose country is Venezuela and print the rest of the Customer tabl
51 * DELETE FROM customers
52 WHERE Country = "Venezuela";
53
54
55
```

Output

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Object Info Session

4:34 PM 4/5/2022

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.28 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| ecommercewebsite |
| hotelmanagementsystem |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
6 rows in set (0.01 sec)

mysql> _
```