

Assignment 5: Prepare a series of SQL statements to INSERT new records into the library tables, UPDATE existing records with new information, and DELETE records based on specific criteria. Include BULK INSERT operations to load data from an external source."

Inserting new records into the library tables:

```
mysql> INSERT INTO admin_table (password)
-> VALUES ('admin_password');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO staff_records (password, staff_name, staff_mail, staff_mobile_no)
-> VALUES ('staff_password', 'Staff Name', 'staff@example.com', '1234567890');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO staff_gender (staff_id, gender)
-> VALUES (1, 'Male');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO staff_gender (staff_id, gender)
-> VALUES (1, 'Male');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO book_details (publication_date)
-> VALUES ('2024-05-16');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO authors (name)
-> VALUES ('Author Name');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO books (author_id, title)
-> VALUES (1, 'Book Title');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO readers (password, first_name, last_name, email, phone_no)
-> VALUES ('reader_password', 'First Name', 'Last Name', 'reader@example.com', '9876543210');
Query OK, 1 row affected (0.00 sec)
```

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```
mysql> SELECT * FROM readers;
+-----+-----+-----+-----+-----+-----+-----+
| user_id | password | first_name | last_name | email | phone_no | address | registration_date |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | reader_password | First Name | Last Name | reader@example.com | 9876543210 | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT * FROM books;
+-----+-----+-----+
| book_id | author_id | title |
+-----+-----+-----+
| 1 | 1 | Book Title |
+-----+-----+-----+
1 row in set (0.00 sec)
```

Updating existing records with new information:

```
mysql> UPDATE staff_records
-> SET gender = 'Female'
-> WHERE staff_id = 1;
ERROR 1054 (42S22): Unknown column 'gender' in 'field list'

mysql>
mysql> UPDATE readers
-> SET address = '123 Street, City, Country'
-> WHERE user_id = 1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM readers;
+-----+-----+-----+-----+-----+-----+-----+
| user_id | password | first_name | last_name | email | phone_no | address | registration_date |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | reader_password | First Name | Last Name | reader@example.com | 9876543210 | 123 Street, City, Country | NULL |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT * FROM staff_records;
+-----+-----+-----+-----+-----+
| staff_id | password | staff_name | staff_mail | staff_mobile_no | date_of_birth |
+-----+-----+-----+-----+-----+
| 1 | staff_password | Staff Name | staff@example.com | 1234567890 | NULL |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Deleting records based on specific criteria:

```
mysql> DELETE FROM readers
-> WHERE user_id = 1;
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> DELETE FROM books
-> WHERE book_id = 1;
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM readers;
Empty set (0.00 sec)

mysql> SELECT * FROM books;
Empty set (0.00 sec)
```

BULK INSERT operations:

```
mysql>
mysql> INSERT INTO readers (password, first_name, last_name, email, phone_no)
-> VALUES
-> ('password1', 'Riyas', 'Chan', 'riyas@example.com', '1234567890'),
-> ('password2', 'Arsh', 'Kabin', 'arsh@example.com', '9876543210'),
-> ('password3', 'Akash', 'Saksena', 'akash@example.com', '5555555555');
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql>
mysql> COMMIT;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM readers;
+-----+-----+-----+-----+-----+-----+-----+
| user_id | password | first_name | last_name | email | phone_no | address |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | password1 | Riyas | Chan | riyas@example.com | 1234567890 | NULL |
| 2 | password2 | Arsh | Kabin | arsh@example.com | 9876543210 | NULL |
| 3 | password3 | Akash | Saksena | akash@example.com | 5555555555 | NULL |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

MySQL Workbench interface showing a Data Import operation. The 'Data Import' window is open, displaying the 'Import Completed' status. The log shows the restoration of a backup file and the successful import of data. The 'Output' pane at the bottom shows a list of actions performed, including 'use assignments', 'show databases', 'show tables', and 'SELECT * FROM users LIMIT 0, 1000'.

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

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MySQL Workbench

Local instance MySQL80 x Local instance MySQL80 (demo_db) demo_connection x demo_connection x demo_connection x Local instance MySQL80 (demo_db) assignment_demo x Local instance MySQL80 (ass... x

File Edit View Query Database Server Tools Scripting Help

Navigator Administration - Data Import/Res...

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

Administration Schemas

Information

users 3 x

Query 1

```
1 • use assignments;
2 • show databases;
3 • show tables;
4 • SELECT * FROM users;
```

Limit to 1000 rows

Result Grid

	id	email	password
1	alex@gmail.com	123456	
2	bob@gmail.com	123456	
4	danie@gmail.com	123456	
5	jacob@gmail.com	123456	
6	exp@gmail.com	123456	
7	jimmy@gmail.com	324322	
8	sai@gmail.com	786567	
9	a@gmail.com	123456	

SQLAdditions

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

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	20:55:03	use assignments	0 row(s) affected	0.000 sec
2	20:55:49	use assignments	0 row(s) affected	0.000 sec
3	20:55:49	show databases	9 row(s) returned	0.000 sec / 0.000 sec
4	20:56:15	show tables	15 row(s) returned	0.000 sec / 0.000 sec
5	20:56:48	SELECT * FROM users LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

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