

```
cloud4.rpsconsulting.in/console/#/client/MTI4AGMABKzWw=
Aug 6 21:40
root@rps-Ubuntu: ~

mysql> -- Assignment 7
mysql> -- Inserting Data into tables
mysql> SHOW TABLES;
+-----+
| Tables_in_Library_DB_Asg |
+-----+
| Author                    |
| Books                     |
| Borrowers                 |
| Checkout                  |
| Fines                     |
+-----+
5 rows in set (0.01 sec)

mysql> INSERT INTO Author (FistName, LastName, BirthDate) VALUES ('ABC', 'CBA', '1928-09-09'), ('PQR', 'RQP', '1841-18-11'), ('XYZ', 'ZYX', '1934-04-28');
ERROR 1292 (22007): Incorrect date value: '1841-18-11' for column 'BirthDate' at row 2
mysql>
mysql> INSERT INTO Author (FistName, LastName, BirthDate) VALUES ('ABC', 'CBA', '1928-09-09'), ('PQR', 'RQP', '1841-08-11'), ('XYZ', 'ZYX', '1934-04-28');
Query OK, 3 rows affected (0.09 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Author;
+-----+-----+-----+-----+
| AuthorID | FistName | LastName | BirthDate |
+-----+-----+-----+-----+
| 1 | J.K. | Rowling | 1965-07-31 |
| 2 | George | Martin | 1975-03-13 |
| 3 | Jason | O'Grady | 1986-08-09 |
| 5 | Ved | Vyas | 1000-01-01 |
| 6 | Gajanan | Mehendale | 1992-09-24 |
| 10 | ABC | CRA | 1978-09-09 |
```

```
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Query OK, 3 rows affected (0.09 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Author;
+-----+-----+-----+-----+
| AuthorID | FirstName | LastName | BirthDate |
+-----+-----+-----+-----+
| 1 | J.K. | Rowling | 1965-07-31 |
| 2 | George | Martin | 1975-03-13 |
| 3 | Jason | O'Grady | 1986-08-09 |
| 5 | Ved | Vyas | 1000-01-01 |
| 6 | Gajanan | Mehendale | 1992-09-24 |
| 10 | ABC | CBA | 1928-09-09 |
| 11 | PQR | RQP | 1841-08-11 |
| 12 | XYZ | ZYX | 1934-04-28 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> INSERT INTO Books (Title, AuthorID, Publish_Year, Genre) VALUES ('War and Peace', 10, 1869, 'Historical Fiction')
, ('Gods Of Space', 11, 1866, 'Psychological Fiction'), ('Journey To the West', 12, 1960, 'Southern Gothic');
Query OK, 3 rows affected (0.10 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Books;
+-----+-----+-----+-----+-----+
| BookID | Title | AuthorID | Publish_Year | Genre |
+-----+-----+-----+-----+-----+
| 7 | Harry-Potter-Part-1 | 1 | 2010 | Urban Fantasy |
| 8 | GOT-Issue-1 | 2 | 2012 | Novel |
| 9 | Apple.inc | 3 | 2001 | Novel |
| 10 | HOD-Issue-1 | 2 | 2014 | Urban Fantasy |
| 11 | Mahabharat | 5 | 2000 | Epic Poem |
| 12 | Chatrapati of Maharashtra | 6 | 2021 | Epic Poem |
+-----+-----+-----+-----+-----+
```

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BookID	Title	AuthorID	Publish_Year	Genre
7	Harry-Potter-Part-1	1	2010	Urban Fantasy
8	GOT--Issue-1	2	2012	Novel
9	Apple.inc	3	2001	Novel
10	HOD-Issue-1	2	2014	Urban Fantasy
11	Mahabharat	5	2000	Epic Poem
12	Chatrapati of Maharashtra	6	2021	Epic Poem
13	War and Peace	10	1869	Historical Fiction
14	Gods Of Space	11	1866	Psychological Fiction
15	Journey To the West	12	1960	Southern Gothic

9 rows in set (0.01 sec)

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

```
mysql> INSERT INTO Borrowers (FirstName, LastName, Membership_Date, Email) VALUES ('Tonny', 'Rides', '2024-01-15', 'TommyRides@example.com'), ('Ben', 'Kalmer', '2024-01-10', 'BenKalmer@example.com'), ('Jerry', 'Smith', '2023-01-20', 'JerrySmith@example.com');
ERROR 1054 (42S22): Unknown column 'Email' in 'field list'
```

```
mysql> SHOW FIELDS FROM Borrowers;
```

Field	Type	Null	Key	Default	Extra
BorrowerID	int	NO	PRI	NULL	auto_increment
FirstName	varchar(50)	YES		NULL	
LastName	varchar(50)	YES		NULL	
Membership_Date	date	YES		NULL	

4 rows in set (0.01 sec)

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LastName	varchar(50)	YES		NULL	
Membership_Date	date	YES		NULL	

4 rows in set (0.01 sec)

```
mysql> ALTER TABLE Borrowers ADD COLUMN Email VARCHAR(50);
Query OK, 0 rows affected (0.50 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SHOW FIELDS FROM Borrowers;
```

Field	Type	Null	Key	Default	Extra
BorrowerID	int	NO	PRI	NULL	auto_increment
FirstName	varchar(50)	YES		NULL	
LastName	varchar(50)	YES		NULL	
Membership_Date	date	YES		NULL	
Email	varchar(50)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> INSERT INTO Borrowers (FirstName, LastName, Membership_Date, Email) VALUES ('Tommy', 'Rides', '2024-01-15', 'TommyRides@example.com'), ('Ben', 'Kalmer', '2024-01-10', 'BenKalmer@example.com'), ('Jerry', 'Smith', '2023-01-20', 'JerrySmith@example.com');
Query OK, 3 rows affected (0.14 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM Borrowers;
```

BorrowerID	FirstName	LastName	Membership_Date	Email
1	Tommy	Rides	2024-01-15	TommyRides@example.com
2	Ben	Kalmer	2024-01-10	BenKalmer@example.com

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Query OK, 3 rows affected (0.14 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Borrowers;
+-----+-----+-----+-----+-----+
| BorrowerID | FirstName | LastName | Membership_Date | Email |
+-----+-----+-----+-----+-----+
| 1 | Tommy | Rides | 2024-01-15 | TommyRides@example.com |
| 2 | Ben | Kalmer | 2024-01-10 | BenKalmer@example.com |
| 3 | Jerry | Smith | 2023-01-20 | JerrySmith@example.com |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> -- updating
mysql> UPDATE Author SET BirthDate = '1931-07-11' WHERE FistName = 'XYZ' AND LastName = 'ZYX';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM Author;
+-----+-----+-----+-----+
| AuthorID | FistName | LastName | BirthDate |
+-----+-----+-----+-----+
| 1 | J.K. | Rowling | 1965-07-31 |
| 2 | George | Martin | 1975-03-13 |
| 3 | Jason | O'Grady | 1986-08-09 |
| 5 | Ved | Vyas | 1000-01-01 |
| 6 | Gajanan | Mehendale | 1992-09-24 |
| 10 | ABC | CBA | 1928-09-09 |
| 11 | PQR | RQP | 1841-08-11 |
| 12 | XYZ | ZYX | 1931-07-11 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```



```
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8 rows in set (0.00 sec)

mysql> UPDATE Books SET Publish_Year = 1981 WHERE Title = 'Journey To the West';
Query OK, 1 row affected (0.10 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM Books;
+-----+-----+-----+-----+-----+
| BookID | Title                | AuthorID | Publish_Year | Genre          |
+-----+-----+-----+-----+-----+
| 7      | Harry-Potter-Part-1  | 1        | 2010         | Urban Fantasy  |
| 8      | GOT--Issue-1         | 2        | 2012         | Novel          |
| 9      | Apple.inc            | 3        | 2001         | Novel          |
| 10     | HOD-Issue-1         | 2        | 2014         | Urban Fantasy  |
| 11     | Mahabharat          | 5        | 2000         | Epic Poem      |
| 12     | Chatrapati of Maharashtra | 6        | 2021         | Epic Poem      |
| 13     | War and Peace        | 10       | 1869         | Historical Fiction |
| 14     | Gods Of Space        | 11       | 1866         | Psychological Fiction |
| 15     | Journey To the West  | 12       | 1981         | Southern Gothic |
+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

mysql> UPDATE Borrowers SET Email = 'JerrySmith_updated@example.com' WHERE FirstName = 'Jerry' AND LastName = 'Smith';
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM Borrowers;
+-----+-----+-----+-----+-----+
| BorrowerID | FirstName | LastName | Membership_Date | Email                                |
+-----+-----+-----+-----+-----+
| 1          | Tommy    | Rides   | 2024-01-15      | TommyRides@example.com             |
| 2          | Ben      | Kalmer  | 2024-01-10      | BenKalmer@example.com              |
| 3          | Jerry    | Smith   | 2023-01-20      | JerrySmith_updated@example.com     |
+-----+-----+-----+-----+-----+
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Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM Borrowers;
```

BorrowerID	FirstName	LastName	Membership_Date	Email
1	Tommy	Rides	2024-01-15	TommyRides@example.com
2	Ben	Kalmer	2024-01-10	BenKalmer@example.com
3	Jerry	Smith	2023-01-20	JerrySmith_updated@example.com

3 rows in set (0.00 sec)

```
mysql>
mysql> -- Deleting
mysql>
mysql> DELETE FROM Books WHERE Title = 'War and Peace';
Query OK, 1 row affected (0.13 sec)
```

```
mysql> SELECT * FROM Books;
```

BookID	Title	AuthorID	Publish_Year	Genre
7	Harry.Potter.Part-1	1	2010	Urban Fantasy
8	GOT--Issue-1	2	2012	Novel
9	Apple.inc	3	2001	Novel
10	HOD-Issue-1	2	2014	Urban Fantasy
11	Mahabharat	5	2000	Epic Poem
12	Chatrapati of Maharashtra	6	2021	Epic Poem
14	Cods Of Space	11	1866	Psychological Fiction
15	Journey To the West	12	1981	Southern Gothic

8 rows in set (0.00 sec)

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mysql> DELETE FROM Author WHERE LastName = 'ZYX';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails ('Library_DB_Asg'.`Books`, CONSTRAINT `Books_ibfk_1` FOREIGN KEY (`AuthorID`) REFERENCES `Author` (`AuthorID`))
mysql> DELETE FROM Author WHERE LastName = 'ABC';
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM Author;
+-----+-----+-----+-----+
| AuthorID | FirstName | LastName | BirthDate |
+-----+-----+-----+-----+
| 1 | J.K. | Rowling | 1965-07-31 |
| 2 | George | Martin | 1975-03-13 |
| 3 | Jason | O'Grady | 1986-08-09 |
| 5 | Ved | Vyas | 1000-01-01 |
| 6 | Gajanan | Mehendale | 1992-09-24 |
| 10 | ABC | CBA | 1928-09-09 |
| 11 | PQR | RQP | 1841-08-11 |
| 12 | XYZ | ZYX | 1931-07-11 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> DELETE FROM Author WHERE LastName = 'CBA';
Query OK, 1 row affected (0.04 sec)

mysql> SELECT * FROM Author;
+-----+-----+-----+-----+
| AuthorID | FirstName | LastName | BirthDate |
+-----+-----+-----+-----+
| 1 | J.K. | Rowling | 1965-07-31 |
| 2 | George | Martin | 1975-03-13 |
| 3 | Jason | O'Grady | 1986-08-09 |
| 5 | Ved | Vyas | 1000-01-01 |
+-----+-----+-----+-----+
```


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```
+-----+
| AuthorID | FirstName | LastName | BirthDate |
+-----+
| 1 | J.K. | Rowling | 1965-07-31 |
| 2 | George | Martin | 1975-03-13 |
| 3 | Jason | O'Grady | 1986-08-09 |
| 5 | Ved | Vyas | 1000-01-01 |
| 6 | Gajanan | Mehendale | 1992-09-24 |
| 10 | ABC | CBA | 1928-09-09 |
| 11 | PQR | RQP | 1841-08-11 |
| 12 | XYZ | ZYX | 1931-07-11 |
+-----+
8 rows in set (0.00 sec)
```

mysql> DELETE FROM Author WHERE LastName = 'CBA';
Query OK, 1 row affected (0.04 sec)

mysql> SELECT * FROM Author;

```
+-----+
| AuthorID | FirstName | LastName | BirthDate |
+-----+
| 1 | J.K. | Rowling | 1965-07-31 |
| 2 | George | Martin | 1975-03-13 |
| 3 | Jason | O'Grady | 1986-08-09 |
| 5 | Ved | Vyas | 1000-01-01 |
| 6 | Gajanan | Mehendale | 1992-09-24 |
| 11 | PQR | RQP | 1841-08-11 |
| 12 | XYZ | ZYX | 1931-07-11 |
+-----+
7 rows in set (0.00 sec)
```

mysql>

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