```
cssuser@e-lab-086: ~

mysql> INSERT INTO Book VALUES
    -> ('B6','Networking','A.Alex',4,3500.00,'Pub009');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint f
ails (`BookShopDB`.`Book`, CONSTRAINT `Book_ibfk_1` FOREIGN KEY (`PubID`) REFERE
NCES `Publisher` (`PubID`))
mysql>
```

```
mysql> UPDATE Publisher
    -> SET PubID = 'Pub011'
    -> WHERE PubID = 'Pub001';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constrai
nt fails (`BookShopDB`.`Book`, CONSTRAINT `Book_ibfk_1` FOREIGN KEY (`PubID`) RE
FERENCES `Publisher` (`PubID`))
mysql>
```

```
cssuser@e-lab-086: ~

mysql> DELETE FROM Publisher
    -> WHERE PubID = 'Pub001';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constrai
nt fails (`BookShopDB`.`Book`, CONSTRAINT `Book_ibfk_1` FOREIGN KEY (`PubID`) RE
FERENCES `Publisher` (`PubID`))
mysql>
```

```
cssuser@e-lab-086: ~

mysql> ALTER TABLE Book ADD CONSTRAINT FK_PubB FOREIGN KEY (PubID) REFERENCES Pu
blisher (PubID);
Query OK, 5 rows affected (0.73 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Book VALUES ('B6','Networking','A.Alex',4,3500.00,'Pub009');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint f
ails (`BookShopDB`.`Book`, CONSTRAINT `FK_PubB` FOREIGN KEY (`PubID`) REFERENCES
 `Publisher` (`PubID`))
mysql> UPDATE Publisher SET PubID = 'Pub011' WHERE PubID = 'Pub001';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constrai
nt fails (`BookShopDB`.`Book`, CONSTRAINT `FK_PubB` FOREIGN KEY (`PubID`) REFERE
NCES `Publisher` (`PubID`))
mysql> DELETE FROM Publisher WHERE PubID = 'Pub001';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constrai
nt fails (`BookShopDB`.`Book`, CONSTRAINT `FK_PubB` FOREIGN KEY (`PubID`) REFERE
NCES `Publisher` (`PubID`))
mysql>
```

```
cssuser@e-lab-086: ~

mysql> ALTER TABLE Book ADD CONSTRAINT FK_PubB FOREIGN KEY (PubID) REFERENCES Pu
blisher (PubID) ON DELETE RESTRICT ON UPDATE RESTRICT;
\Query OK, 5 rows affected (0.84 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Book VALUES ('B6','Networking','A.Alex',4,3500.00,'Pub009');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint f
ails (`BookShopDB`.`Book`, CONSTRAINT `FK_PubB` FOREIGN KEY (`PubID`) REFERENCES
 `Publisher` (`PubID`))
mysql> UPDATE Publisher SET PubID = 'Pub011' WHERE PubID = 'Pub001';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constrai
nt fails (`BookShopDB`.`Book`, CONSTRAINT `FK_PubB` FOREIGN KEY (`PubID`) REFERE
NCES `Publisher` (`PubID`))
mysql> DELETE FROM Publisher WHERE PubID = 'Pub001';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constrai
nt fails (`BookShopDB`.`Book`, CONSTRAINT `FK_PubB` FOREIGN KEY (`PubID`) REFERE
NCES `Publisher` (`PubID`))
mysql>
```

```
cssuser@e-lab-086: ~
mysql> ALTER TABLE Book ADD CONSTRAINT FK_PubB FOREIGN KEY (PubID) REFERENCES Pu
blisher (PubID) ON DELETE CASCADE ON UPDATE CASCADE;
Query OK, 5 rows affected (0.72 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
cssuser@e-lab-086: ~

mysql> UPDATE Publisher SET PubID = 'Pub011' WHERE PubID = 'Pub001';
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> INSERT INTO Book VALUES ('B6','Networking','A.Alex',4,3500.00,'Pub011');
Query OK, 1 row affected (0.03 sec)

mysql> SELECT * FROM Book;
+--------+------------+----------+----------+----------+--------+
| BookID | Title      | Author   | Category | Price_Rs | PubID  |
+--------+------------+----------+----------+----------+--------+
| B1     | Excel      | R.David  |        2 |  1800.00 | Pub002 |
| B2     | Computers  | M.Thomas |        4 |  2500.00 | Pub002 |
| B3     | Access     | P.Paul   |        2 |  3000.00 | Pub003 |
| B4     | Arts       | W.Shiva  |        1 |  1000.00 | Pub004 |
| B5     | Science    | A.Rahul  |        3 |   900.00 | Pub011 |
| B6     | Networking | A.Alex   |        4 |  3500.00 | Pub011 |
+--------+------------+----------+----------+----------+--------+
6 rows in set (0.00 sec)

mysql> DELETE FROM Publisher WHERE PubID = 'Pub011';
Query OK, 1 row affected (0.03 sec)

mysql>
```

```
Query OK, 0 rows affected (0.07 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE Book ADD CONSTRAINT FK_PubB FOREIGN KEY (PubID) REFERENCES Pu
blisher (PubID) ON DELETE SET NULL ON UPDATE SET NULL;
Query OK, 4 rows affected (1.21 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> UPDATE Publisher SET PubID = 'Pub044' WHERE PubID = 'Pub004';
Query OK, 1 row affected (0.05 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM Book;
+--------+-----------+----------+----------+----------+--------+
| BookID | Title     | Author   | Category | Price_Rs | PubID  |
+--------+-----------+----------+----------+----------+--------+
| B1     | Excel     | R.David  |        2 |  1800.00 | Pub002 |
| B2     | Computers | M.Thomas |        4 |  2500.00 | Pub002 |
| B3     | Access    | P.Paul   |        2 |  3000.00 | Pub003 |
| B4     | Arts      | W.Shiva  |        1 |  1000.00 | NULL   |
+--------+-----------+----------+----------+----------+--------+
4 rows in set (0.00 sec)

mysql>
```