Step=1

CREATE TABLE parent (

id INT NOT NULL,

PRIMARY KEY (id)

) ENGINE=INNODB;

CREATE TABLE child (

id INT,

parent\_id INT,

INDEX par\_ind (parent\_id),

FOREIGN KEY (parent\_id)

REFERENCES parent(id)

) ENGINE=INNODB;

Step=2

INSERT INTO parent (id) VALUES ROW(1);

Step=3

TABLE parent;

+----+

| id |

+----+

| 1 |

Step=4

INSERT INTO child (id,parent\_id) VALUES ROW(1,1);

Step=5

INSERT INTO child (id,parent\_id) VALUES ROW(2,2);

(error will come)

Step=6

DELETE FROM parent WHERE id VALUES = 1;

(error will come)

Step=7

DROP TABLE child;

CREATE TABLE child (

id INT,

parent\_id INT,

INDEX par\_ind (parent\_id),

FOREIGN KEY (parent\_id)

REFERENCES parent(id)

ON UPDATE CASCADE

ON DELETE CASCADE

) ENGINE=INNODB;

Step=8

INSERT INTO child (id,parent\_id) VALUES ROW(1,1), ROW(2,1), ROW(3,1);

Step=9

mysql> TABLE child;

+------+-----------+

| id | parent\_id |

+------+-----------+

| 1 | 1 |

| 2 | 1 |

| 3 | 1 |

|  |  |
| --- | --- |
|  |  |

Step=10 mysql> UPDATE parent SET id = 2 WHERE id = 1;

Step=11

mysql> TABLE parent;

+----+

| id |

+----+

| 2 |

|  |
| --- |
|  |

|  |
| --- |
|  |

Step=12

mysql> TABLE child;

+------+-----------+

| id | parent\_id |

+------+-----------+

| 1 | 2 |

| 2 | 2 |

| 3 | 2 |

+------+-----------+