**Section 10.3**

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1. ALTER TABLE copy\_d\_clients ADD CONSTRAINT copy\_d\_clients\_pk PRIMARY KEY (client\_number)
2. ALTER TABLE copy\_d\_events

ADD CONSTRAINT copy\_d\_events\_fk FOREIGN KEY (client\_number) REFERENCES copy\_d\_clients (client\_number)

1. SELECT \*

FROM user\_cons\_columns

WHERE table\_name LIKE 'COPY\_D\_%'

1. ALTER TABLE copy\_d\_clients

DROP CONSTRAINT copy\_d\_clients\_pk  
  
This query did not work because the cascade part of the clause was not added, so the dependent FKs still rely on this PK. APEX gives out an error stating that the PK is still referenced by other FKs or UKs.

1. INSERT INTO copy\_d\_events

(id, name, event\_date, description, cost, venue\_id, package\_code, theme\_code, client\_number)

VALUES

(140, 'Cline Bas Mitzvah', '15-Jul-2004', 'Church and private home formal', 4500, 105, 87, 77, 7125)

The query did not run because a primary key wasn’t defined in the copy\_d\_clients table so the FK had no PK to rely on, violating the integrity of the constraint. APEX gives out an error code stating the constraint was violated because no “parent key” was found.

1. 1. ALTER TABLE copy\_d\_clients

DISABLE CONSTRAINT copy\_d\_clients\_pk

This did not run because the FKs of the events table rely on the PKs of this table. APEX gives another error code stating that “dependencies exist”

* 1. ALTER TABLE copy\_d\_clients

DISABLE CONSTRAINT copy\_d\_clients\_pk CASCADE

1. INSERT INTO copy\_d\_events

(id, name, event\_date, description, cost, venue\_id, package\_code, theme\_code, client\_number)

VALUES

(140, 'Cline Bas Mitzvah', '15-Jul-2004', 'Church and private home formal', 4500, 105, 87, 77, 7125)

The statement did run because now the client number in the events table no longer relies on the primary key - foreign key relationship between the events and clients tables.

1. ALTER TABLE copy\_d\_clients

ENABLE CONSTRAINT copy\_clients\_client\_num\_pk

Enabling the primary key did not affect the table information in the events table because the information was added before the constraint was enabled, so the previous information isn’t affected by the change.

1. In order to regain the referential integrity, you must put the client that has the client number into the clients table before running the code to enable the foreign key.