14-3: Managing Constraints

Vocabulary

1.disable

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2.cascade
3.alter table
4.enable
5.DROP CONSTRAINT
6.DROP COLUMN
7.CASCADE CONSTRAINTS
Try It / Solve It
1.
· ADD (uses modify clause to add not null on a column though)
· DROP
· ENABLE/DISABLE
2.
ALTER TABLE copy d clients
ADD CONSTRAINT copy_d_clt_client_number_pk PRIMARY KEY (client_number);
3.
Alter table copy_d_events
Add constraint COPY_D_EVE_CLIENT_NUMBER_FK
Foreign key (client number) REFERENCES copy d clients (client number) ENABLE;
4.
SELECT constraint_name, constraint_type, table_name
FROM user constraints
WHERE table_name = UPPER('copy_d_events');
a.COPY D CLT CLIENT NUMBER PK
b.COPY_D_EVE_CLIENT_NUMBER_FK
5.
ALTER TABLE copy_d_clients
```

DROP CONSTRAINT COPY D CLT CLIENT NUMBER PK CASCADE;

6.

INSERT INTO

copy_d_events(client_number,id,name,event_date,description,cost,venue_id,package_code,theme_code)

VALUES(7125,140, 'Cline Bas Mitzvah', TO_DATE('15-Jul-2004', 'dd-Mon-yyyy'), 'Church and Private Home formal', 4500, 105, 87, 77); — parent key not found

7.

ALTER TABLE copy_d_clients
DISABLE CONSTRAINT COPY_D_CLT_CLIENT_NUMBER_PK CASCADE;

8.

INSERT INTO

copy_d_events(client_number,id,name,event_date,description,cost,venue_id,package_code,theme_code)

VALUES(7125,140, 'Cline Bas Mitzvah', TO_DATE('15-Jul-2004', 'dd-Mon-yyyy'), 'Church and Private Home formal', 4500, 105, 87, 77);

9.

ALTER TABLE copy_d_clients ENABLE CONSTRAINT COPY_D_CLT_CLIENT_NUMBER_PK;

10.

So first I need to fix the row with client_number to a valid value/null.

But since client_number is not nullable, I will either have to delete invalid row or update that row.

DELETE FROM copy_d_events WHERE

client_number NOT IN (SELECT client_number FROM copy_d_clients);

1 row(s) deleted.

ALTER TABLE copy_d_events ENABLE CONSTRAINT COPY_D_EVE_CLIENT_NUMBER_FK;

11.

Generally to make bulk operations fast, where my input data is diligently sanitized and I am sure, it is safe to save some time in this clumsy process.

12.

I can check value of CONSTRAINT TYPE in all constraints/user constraints view.

- · C Check constraint
- · P Primary key
- · R Referential integrity (fk)
- · U Unique key