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An interesting deletion subject to a Referential Integrity rule

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SQLITE> create table SCHEME

🡪 (CODE text, ASTYP text, DETAILS text);

SQLITE> insert into SCHEME values (‘8010’, 'C1’, 'Delete a tuple’);

SQLITE> insert into SCHEME values (‘8010’, 'C2’, 'from this table’);

SQLITE> insert into SCHEME values (‘8010’, 'EX’, ‘provided it is not’);

SQLITE> insert into SCHEME values (‘8011’, 'EX’, 'the last ASTYPE’);

SQLITE> -- we will need the original table for a couple of experiments, so

SQLITE> create table SCHEME\_A as select \* from SCHEME;

SQLITE> delete from SCHEME

🡪 where CODE = 8010 and ASTYP = 'C2'

🡪 and exists

🡪 (select \* from SCHEME

🡪 where CODE = 8010 and ASTYP <> 'C2');

SQLITE> select \* from SCHEME;

CODE AS DETAILS

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8010 C1 Delete a tuple

8010 EX provided it is not

8011 EX the last ASTYP

SQLITE> select \* from SCHEME\_A;

CODE AS DETAILS

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8010 C1 Delete a tuple

8010 C2 from this table

8010 EX provided it is not

8011 EX the last ASTYP

SQLITE> delete from SCHEME\_A

🡪 where CODE = 8011 and ASTYP = 'EX'

🡪 and exists

🡪 (select \* from SCHEME\_A

🡪 where CODE = 8011 and ASTYP <> 'EX');

SQLITE> select \* from SCHEME\_A;

CODE AS DETAILS

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8010 C1 Delete a tuple

8010 C2 from this table

8010 EX provided it is not

8011 EX the last ASTYP

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