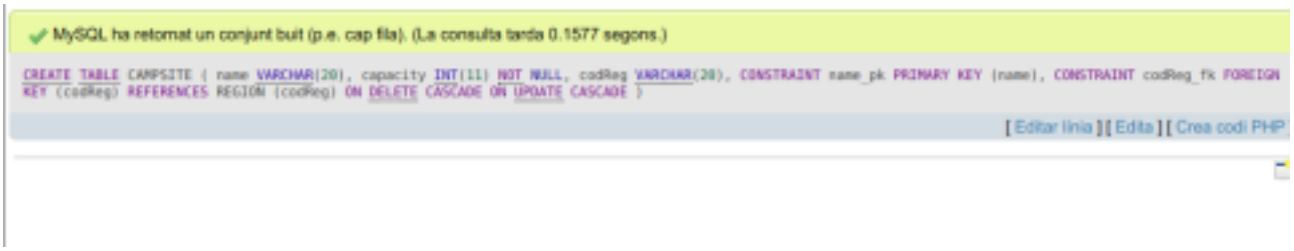
M02 – Base de datos
Examen UF2 – 1
AARON ANDAL

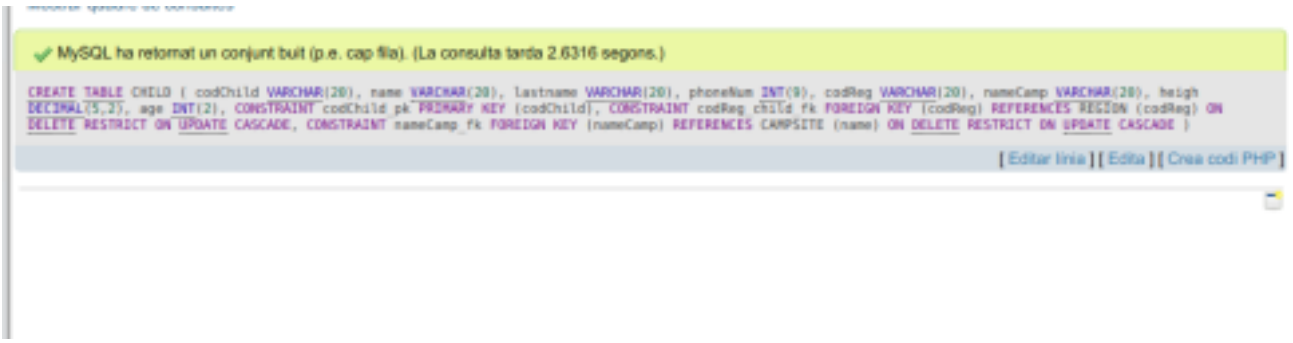
1.

```
CREATE TABLE REGION (
        codReg VARCHAR(20),
        name VARCHAR(20) UNIQUE,
        area DECIMAL(5,2),
        numHab int(11),
        CONSTRAINT codReg_pk PRIMARY KEY (codReg)
);
```

```
CREATE TABLE CAMPSITE (
        name VARCHAR(20),
        capacity INT(11) NOT NULL,
        codReg VARCHAR(20),
 CONSTRAINT name_pk PRIMARY KEY (name),
 CONSTRAINT codReg_fk FOREIGN KEY (codReg) REFERENCES REGION (codReg)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

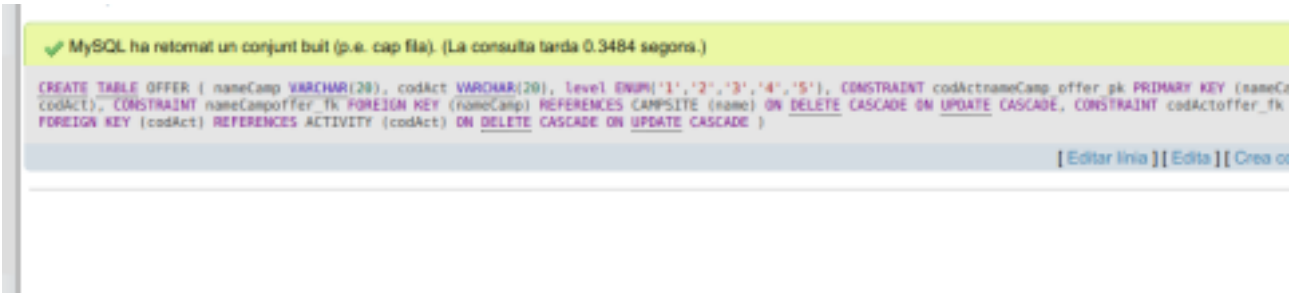


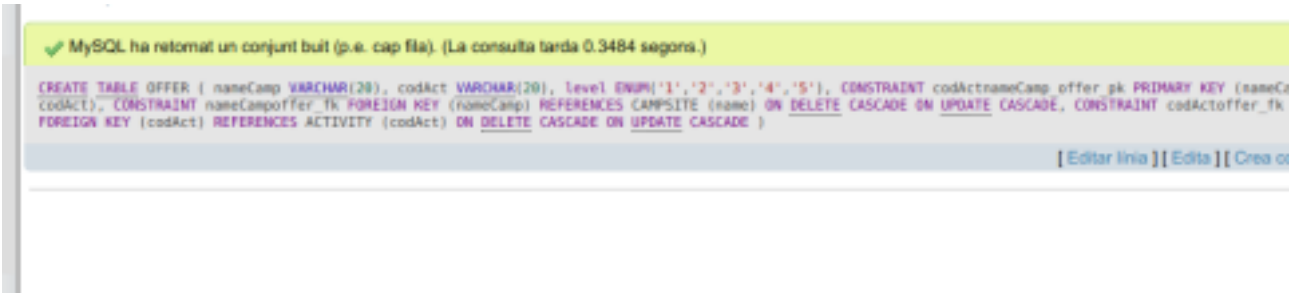

```
CREATE TABLE CHILD (
        codChild VARCHAR(20),
        name VARCHAR(20),
        lastname VARCHAR(20),
        phoneNum INT(9),
        codReg VARCHAR(20),
        nameCamp VARCHAR(20),
        heigh DECIMAL(5,2),
        age INT(2),
        CONSTRAINT codChild_pk PRIMARY KEY (codChild),
        CONSTRAINT codReg_child_fk FOREIGN KEY (codReg) REFERENCES
REGION (codReg) ON DELETE RESTRICT ON UPDATE CASCADE,
        CONSTRAINT nameCamp_fk FOREIGN KEY (nameCamp) REFERENCES
CAMPSITE (name) ON DELETE RESTRICT ON UPDATE CASCADE
);
```

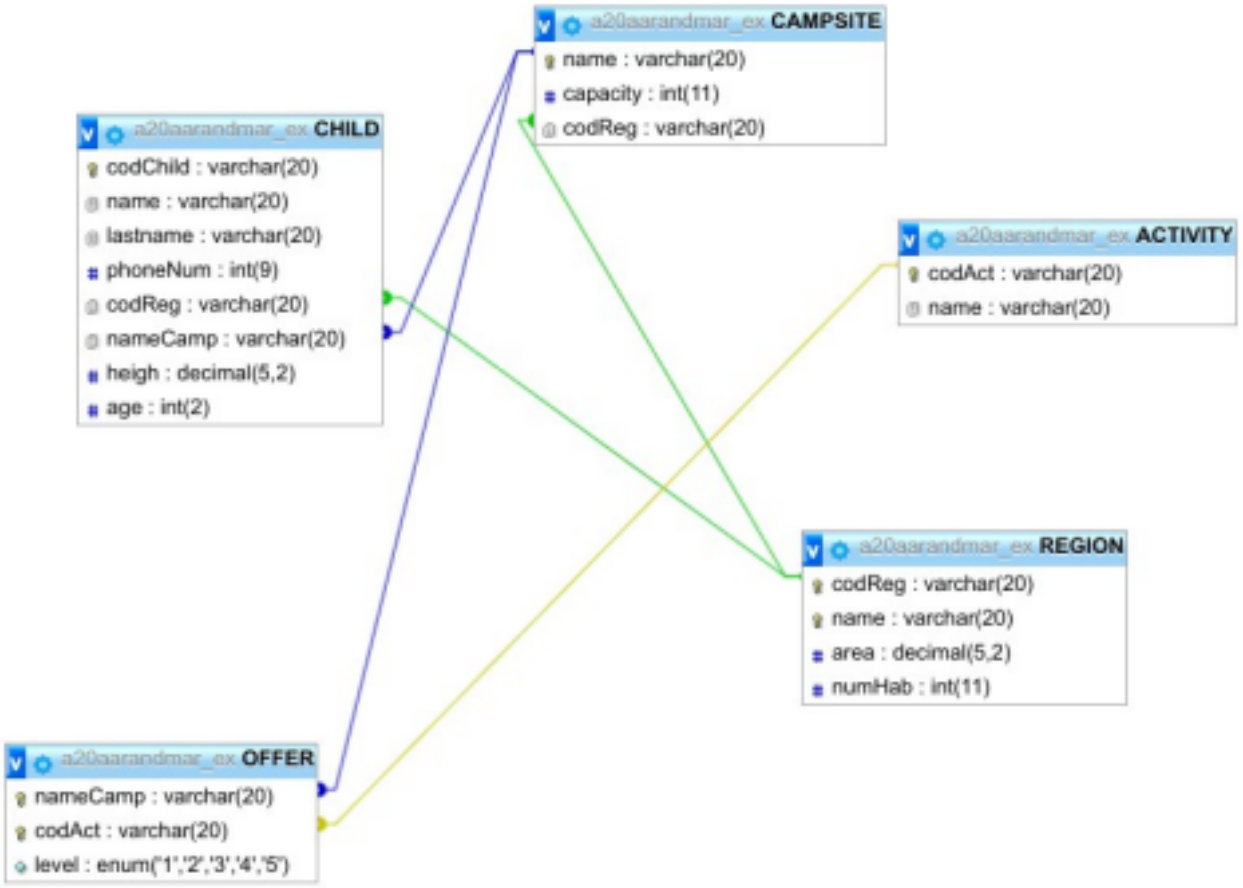



```
CREATE TABLE ACTIVITY (
        codAct VARCHAR(20),
 name VARCHAR(20),
 CONSTRAINT codAct_pk PRIMARY KEY (codAct)
);
```

```
CREATE TABLE OFFER (
        nameCamp VARCHAR(20),
        codAct VARCHAR(20),
        level ENUM('1','2','3','4','5'),
        CONSTRAINT codActnameCamp_offer_pk PRIMARY KEY (nameCamp, codAct),
CONSTRAINT nameCampoffer_fk FOREIGN KEY (nameCamp) REFERENCES
CAMPSITE (name) ON DELETE CASCADE ON UPDATE CASCADE,
        CONSTRAINT codActoffer_fk FOREIGN KEY (codAct) REFERENCES ACTIVITY
(codAct) ON DELETE CASCADE ON UPDATE CASCADE
);
```





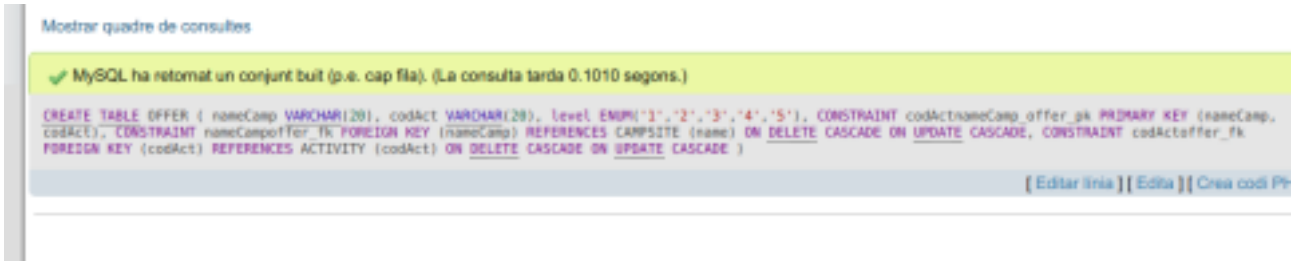


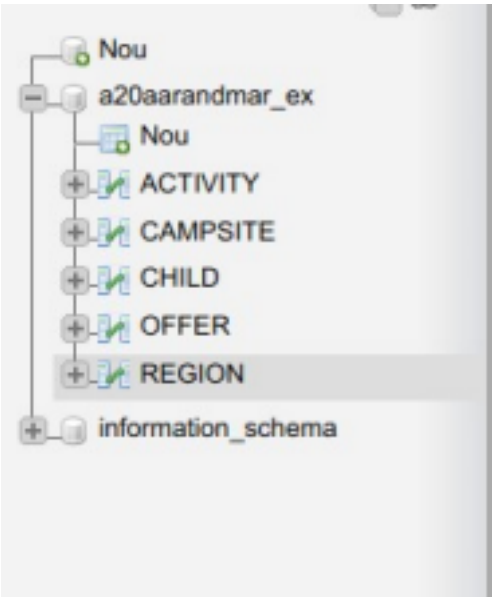
2.1

DROP TABLE OFFER;

```
CREATE TABLE OFFER (
        nameCamp VARCHAR(20),
        codAct VARCHAR(20),
```

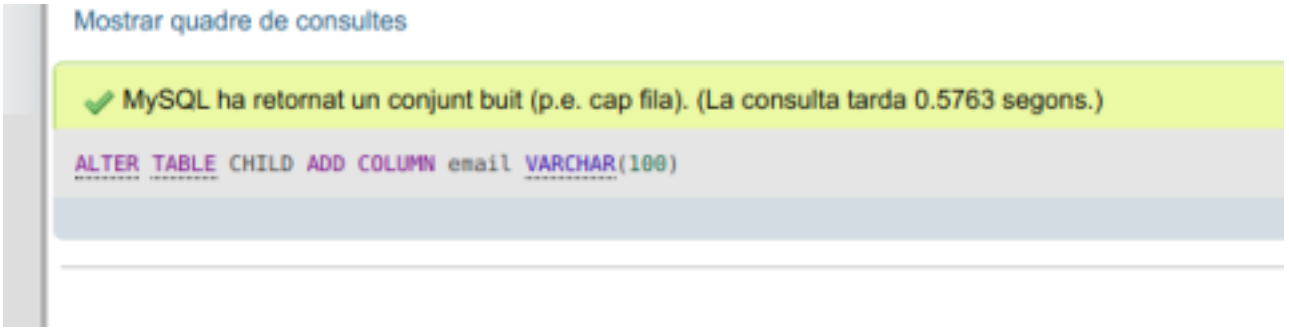
level ENUM('1','2','3','4','5'),
CONSTRAINT codActnameCamp_offer_pk PRIMARY KEY (nameCamp, codAct),
CONSTRAINT nameCampoffer_fk FOREIGN KEY (nameCamp) REFERENCES CAMPSITE (name) ON DELETE CASCADE ON UPDATE CASCADE,
CONSTRAINT codActoffer_fk FOREIGN KEY (codAct) REFERENCES ACTIVITY (codAct) ON DELETE CASCADE ON UPDATE CASCADE
);





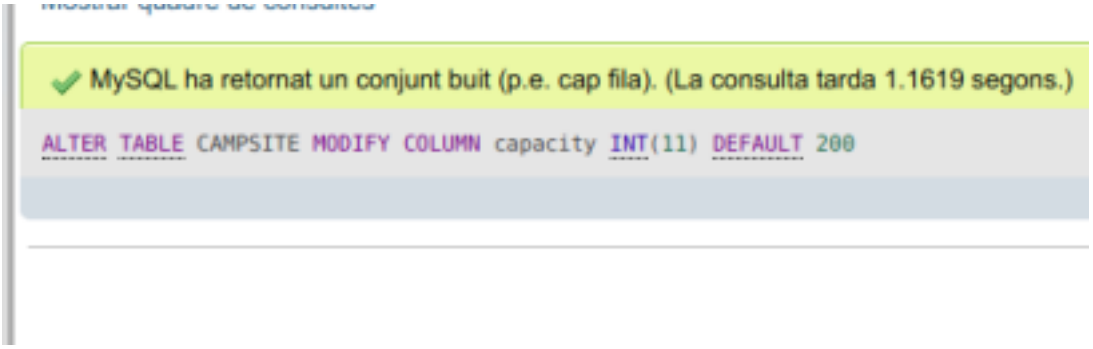
2.2

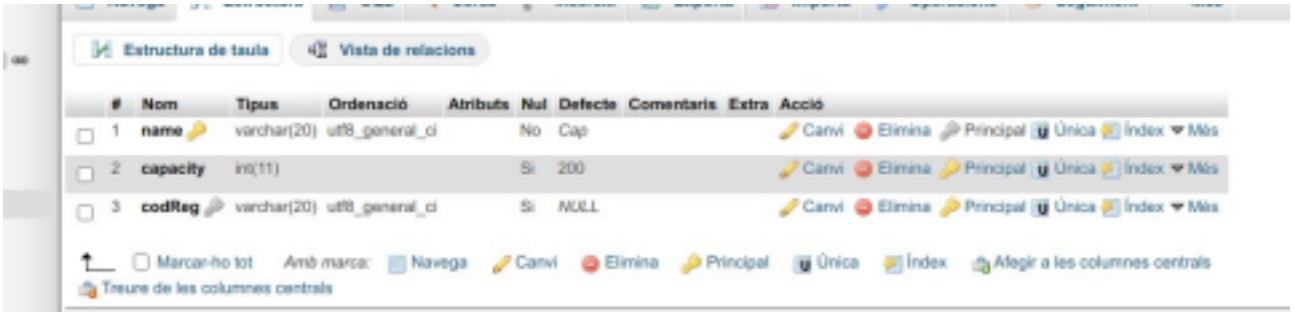
ALTER TABLE CHILD ADD COLUMN email VARCHAR(100);



2.3

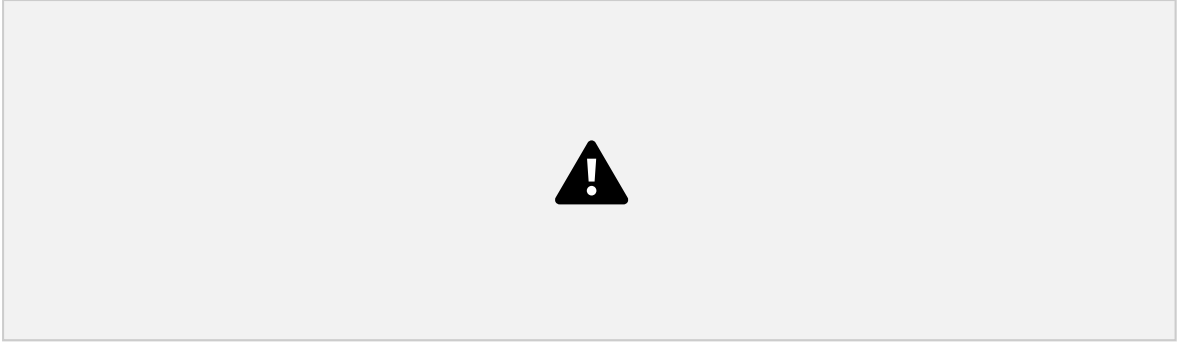
ALTER TABLE CAMPSITE MODIFY COLUMN capacity INT(11) DEFAULT 200;





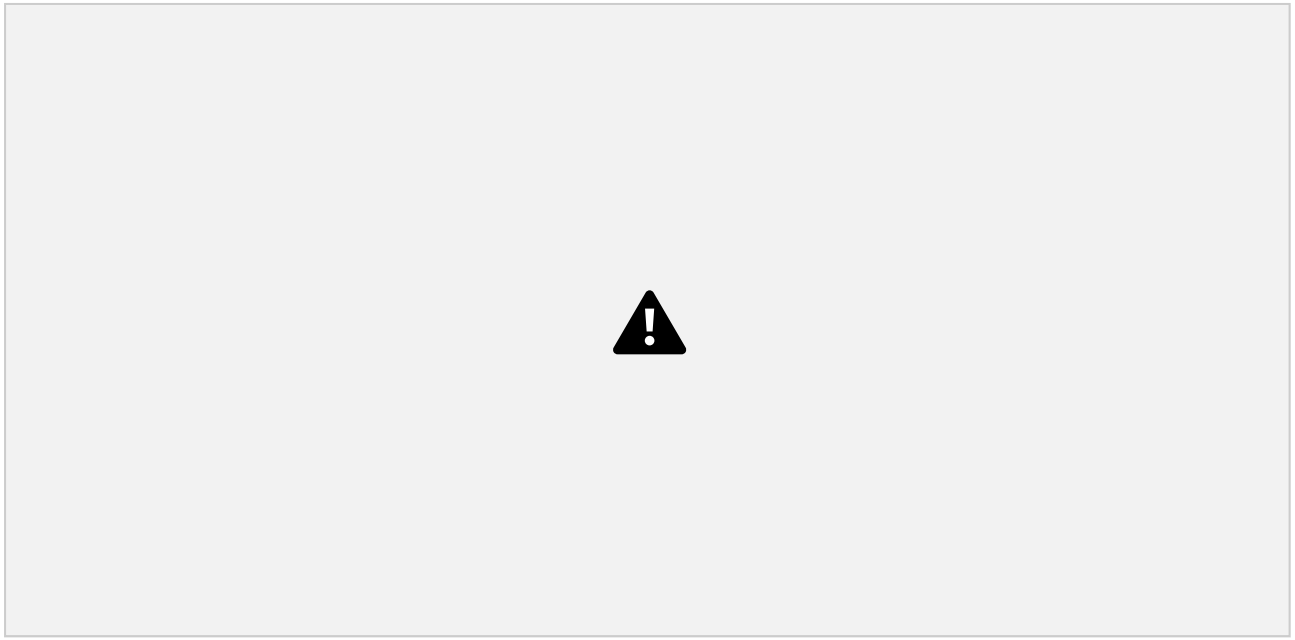
2.4

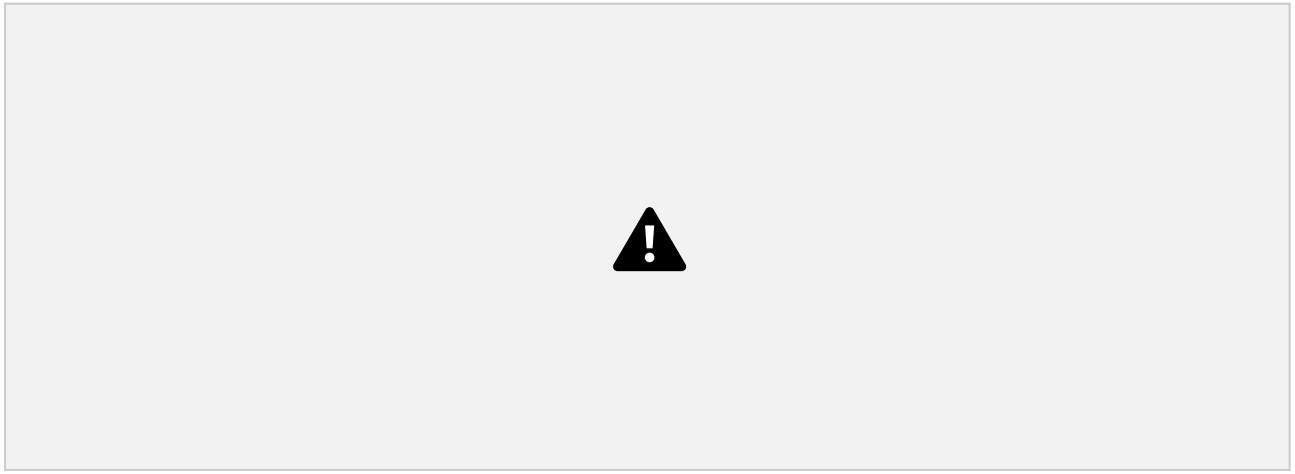
ALTER TABLE CHILD ADD CONSTRAINT age_limited CHECK (age >= 6 AND age <= 15);



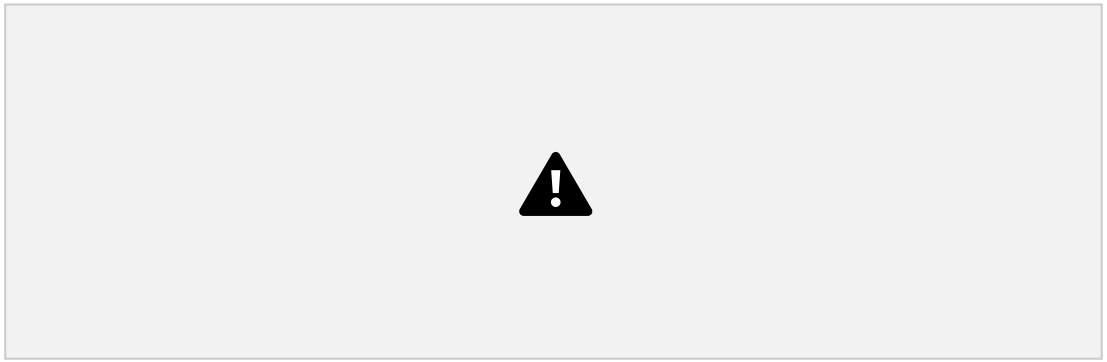
2.5

ALTER TABLE CHILD MODIFY COLUMN name VARCHAR(20) NOT NULL;
ALTER TABLE CHILD MODIFY COLUMN lastname VARCHAR(20) NOT NULL;





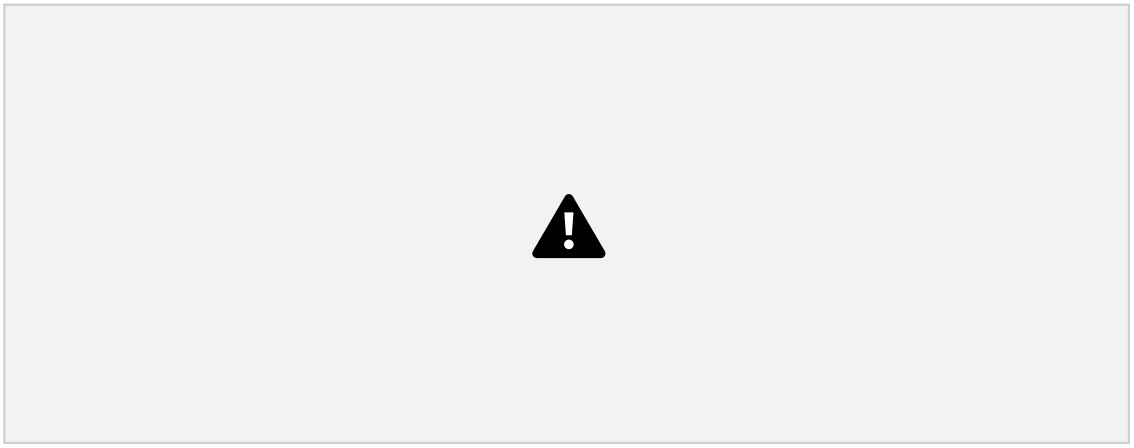
2.6
ALTER TABLE CAMPSITE ADD COLUMN nameRecurCamp VARCHAR(20);



ALTER TABLE CAMPSITE ADD CONSTRAINT nameRecurCamp_rec FOREIGN KEY (nameRecurCamp) REFERENCES CAMPSITE (name);

2.7

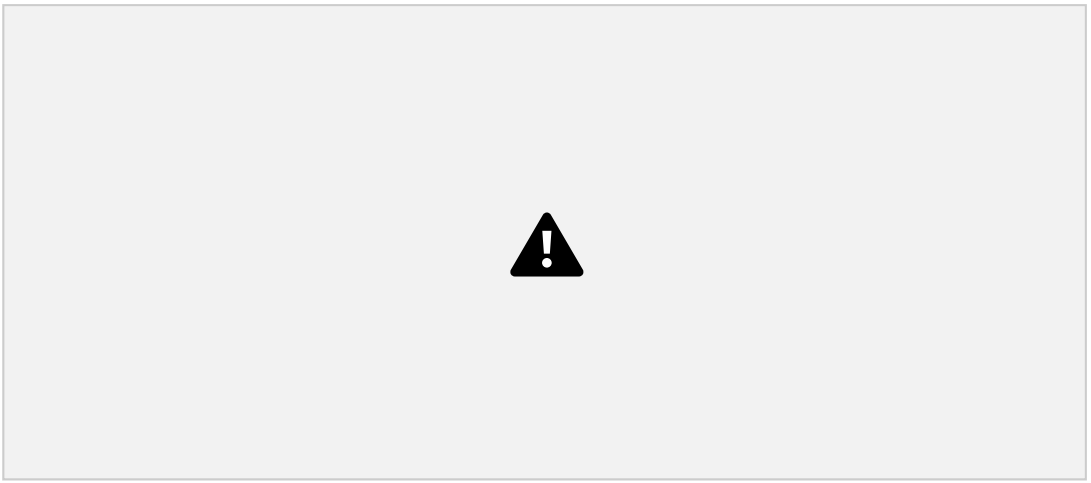
CREATE INDEX child_index ON CHILD (name, lastname);

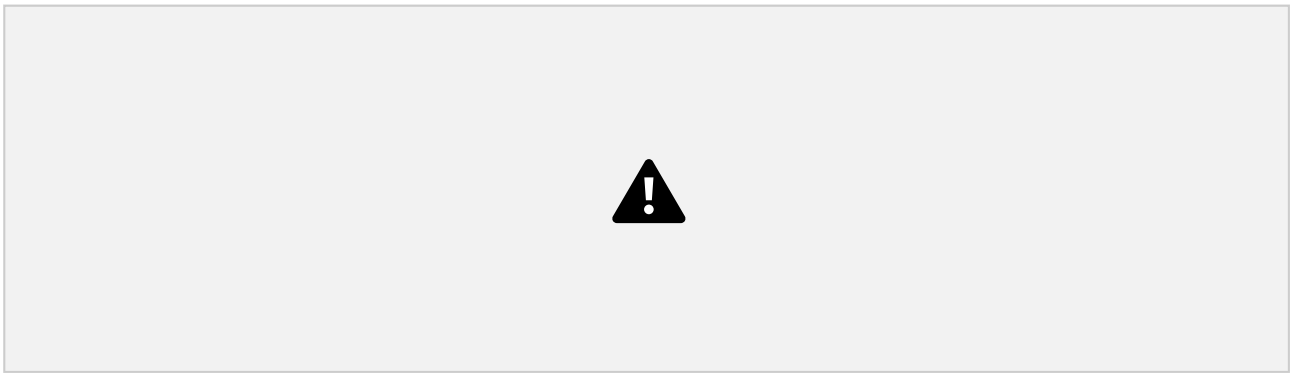


DML

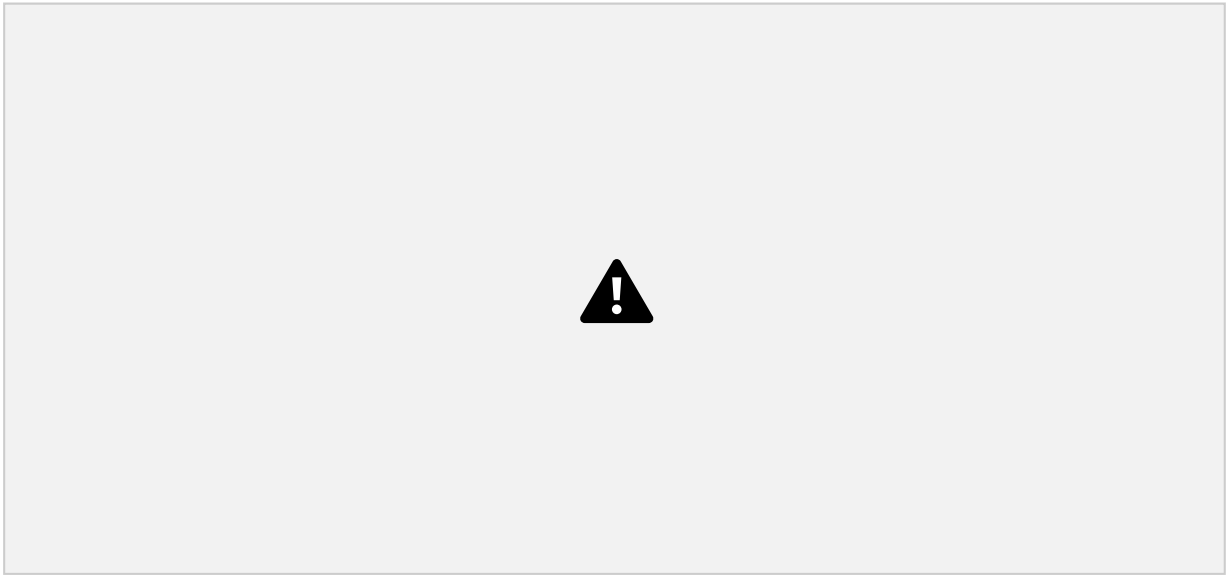
1.

```
INSERT INTO REGION VALUES (
        'BCN',
 'Barcelona',
 '1',
 '10000000'
);

INSERT INTO REGION VALUES (
        'MAD',
 'Madrid',
 '2',
 '20000000'
);
```



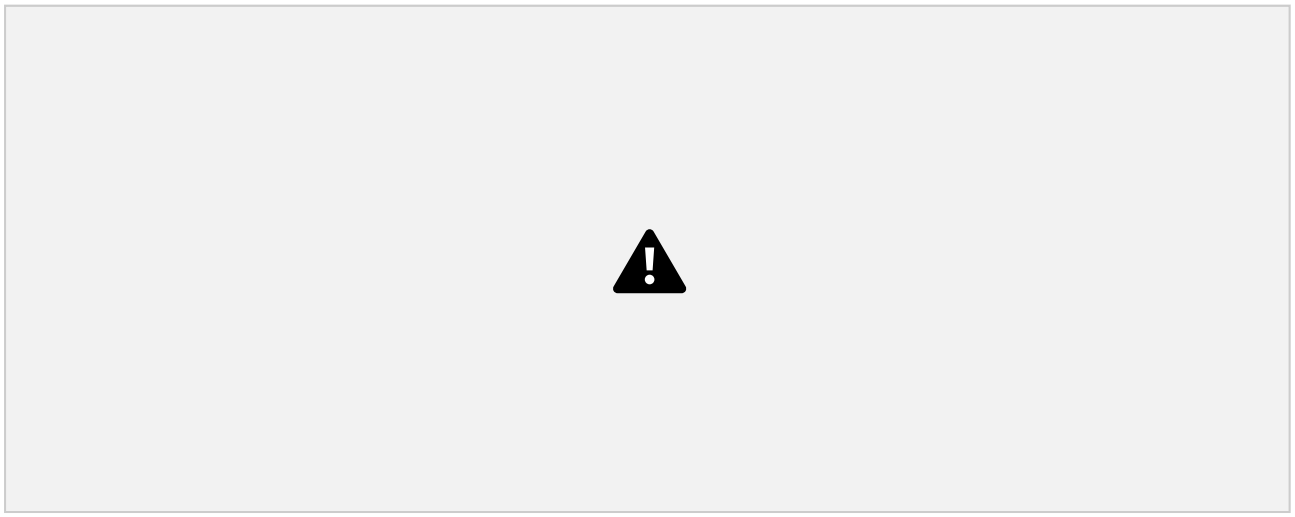


```
INSERT INTO CAMPSITE VALUES (
        'Raval',
 '10000',
 'BCN',
 'Raval'
);

INSERT INTO CAMPSITE VALUES (
        'Pozuelo',
 '20000',
 'MAD',
 'Pozuelo'
);
```



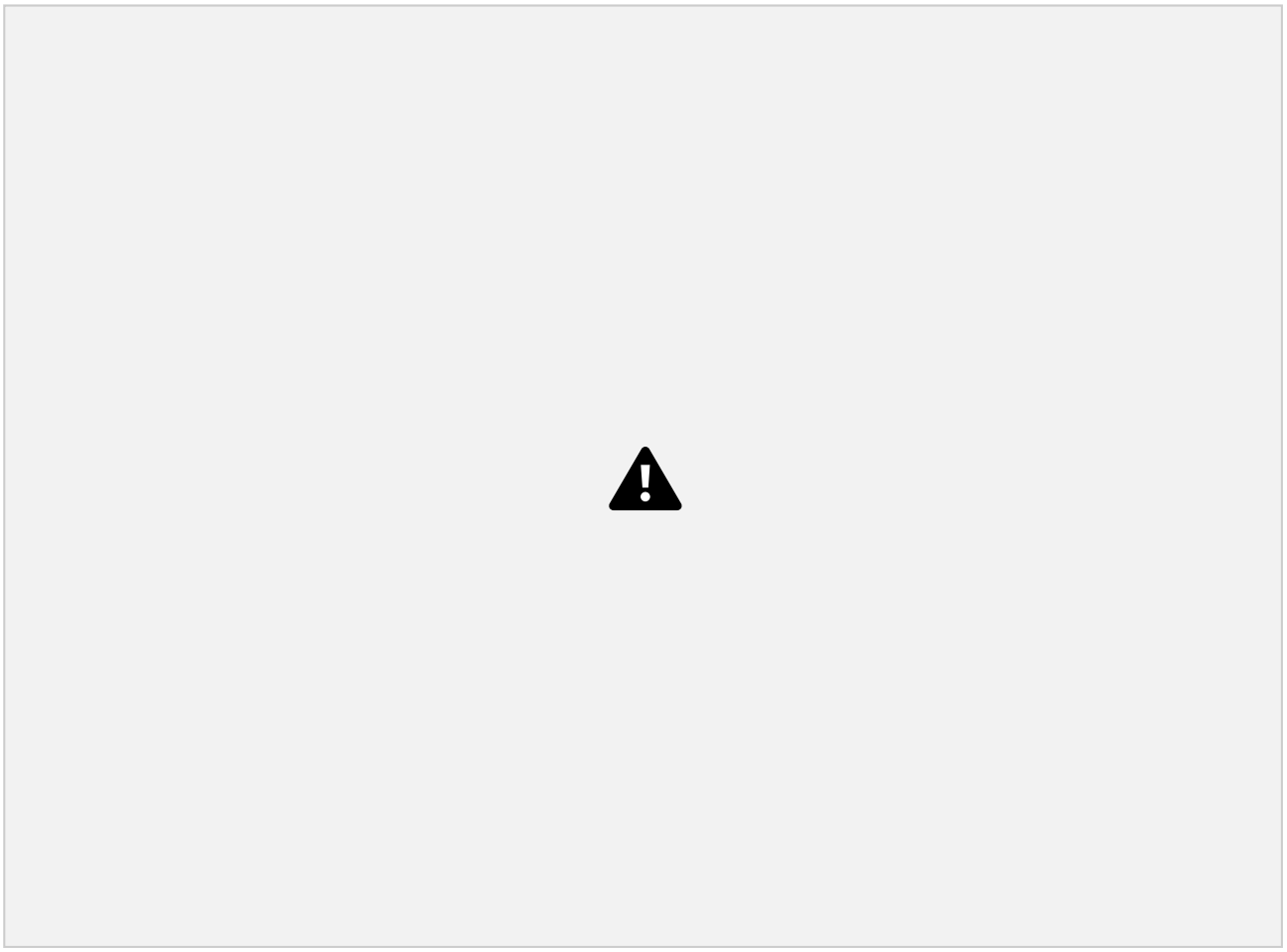
2.

UPDATE REGION SET codReg = 'BARCELONA' WHERE codReg = 'BCN';



3.

DELETE FROM REGION WHERE REGION.name = 'Madrid';



Per defecte te la opció de restrict en tota la taula de Region.

No permet esborrar desde Regio per las restriccions.

Solució: Modificar les restriccions de Region i llavors ja es podrà esborrar una entrada que hi aparegui MAD en Campsite.