

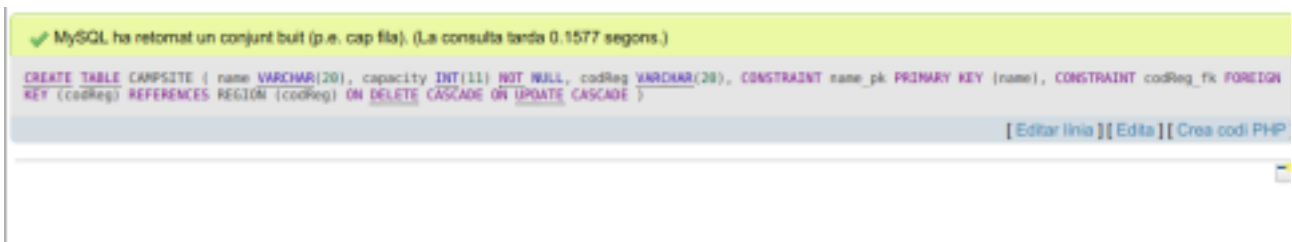
M02 – Base de datos  
Examen UF2 – 1  
AARON ANDAL

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  
);
```

✓ MySQL ha retornat un conjunt buit (p.e. cap fila). (La consulta tarda 2.6316 segons.)

```
CREATE TABLE CHILD ( codChild VARCHAR(20), name VARCHAR(20), lastname VARCHAR(20), phoneNum INT(9), codReg VARCHAR(20), nameCamp VARCHAR(20), height 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 )
```

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

Mostrar quadre de consultes

✓ MySQL ha retornat un conjunt buit (p.e. cap fila). (La consulta tarda 1.2599 segons.)

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

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```
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
);
```

✓ MySQL ha retornat un conjunt buit (p.e. cap fila). (La consulta tarda 0.3484 segons.)

```
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 )
```

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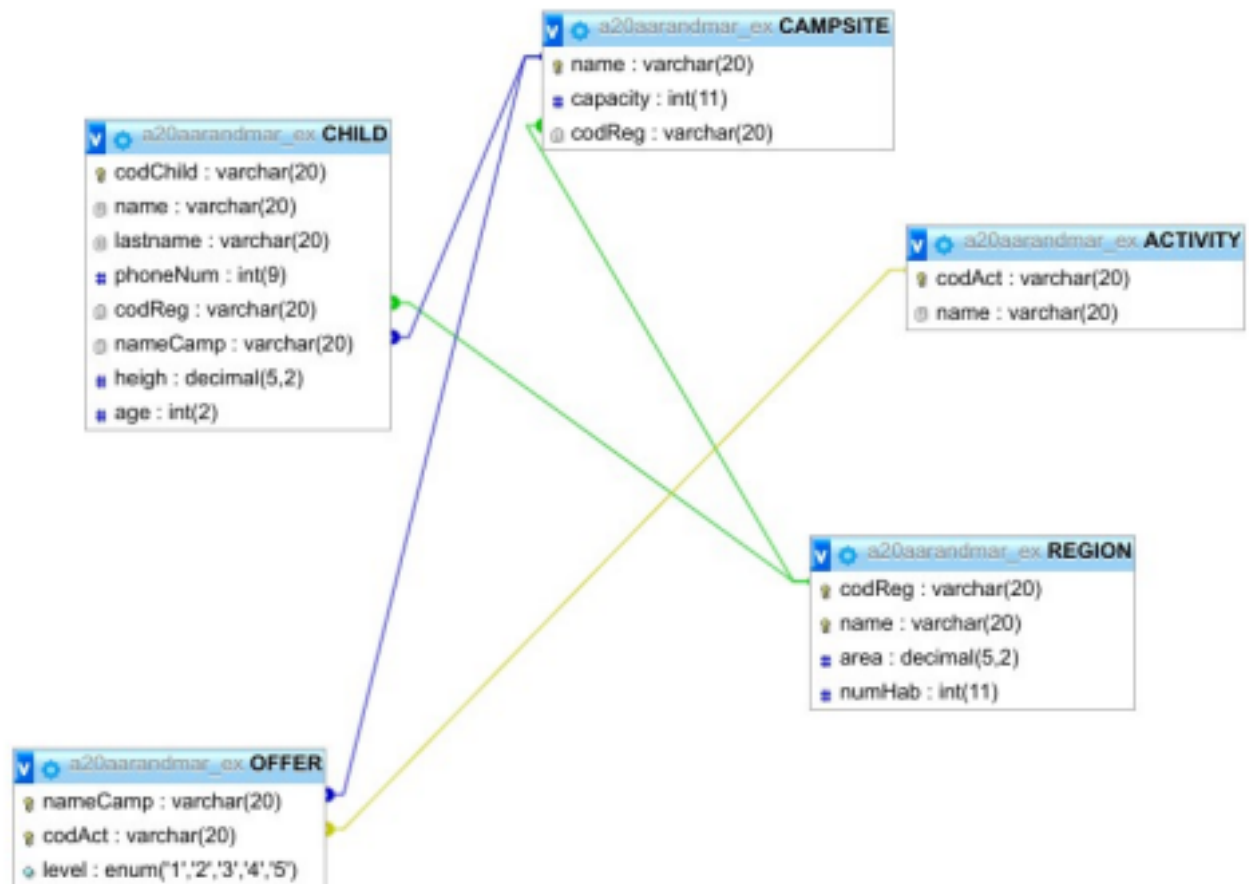
✓ MySQL ha retornat un conjunt buit (p.e. cap fila). (La consulta tarda 0.3484 segons.)

```
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 )
```

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Taula	Acció	Fitxer	Tipus	Ordenació	Mida	Defragmentat
<input type="checkbox"/> ACTIVITY	★ Navega Estructura Cerca Insereix Buida Elimina	0	InnoDB	utf8_general_ci	16 KB	-
<input type="checkbox"/> CAMPSITE	★ Navega Estructura Cerca Insereix Buida Elimina	0	InnoDB	utf8_general_ci	32 KB	-
<input type="checkbox"/> CHILD	★ Navega Estructura Cerca Insereix Buida Elimina	0	InnoDB	utf8_general_ci	48 KB	-
<input type="checkbox"/> OFFER	★ Navega Estructura Cerca Insereix Buida Elimina	0	InnoDB	utf8_general_ci	32 KB	-
<input type="checkbox"/> REGION	★ Navega Estructura Cerca Insereix Buida Elimina	0	InnoDB	utf8_general_ci	32 KB	-
5 taules	Suma	0	InnoDB	utf8_general_ci	160 KB	0 B

☐ Marcar-ho tot



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
);

```

Mostrar quadre de consultes

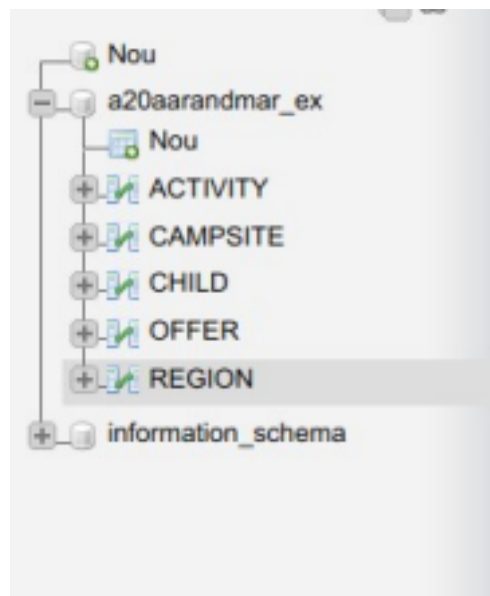
✓ MySQL ha retornat un conjunt buit (p.e. cap fila). (La consulta tarda 0.1010 segons.)

```

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 )

```

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## 2.2

ALTER TABLE CHILD ADD COLUMN email VARCHAR(100);

Mostrar quadre de consultes

✓ MySQL ha retornat un conjunt buit (p.e. cap fila). (La consulta tarda 0.5763 segons.)

```

ALTER TABLE CHILD ADD COLUMN email VARCHAR(100)

```

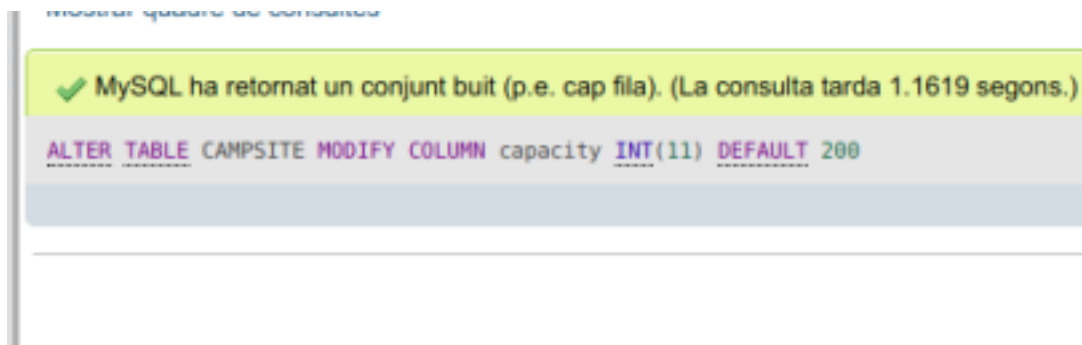
Estructura de taula Vista de relacions

#	Nom	Tipus	Ordenació	Atributs	Nul	Defecte	Comentaris	Extra	Acció
<input type="checkbox"/>	1	codChild	varchar(20)	utf8_general_ci	No	Cap			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	2	name	varchar(20)	utf8_general_ci	Si	NULL			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	3	lastname	varchar(20)	utf8_general_ci	Si	NULL			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	4	phoneNum	int(9)		Si	NULL			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	5	codReg	varchar(20)	utf8_general_ci	Si	NULL			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	6	nameCamp	varchar(20)	utf8_general_ci	Si	NULL			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	7	heigh	decimal(5,2)		Si	NULL			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	8	age	int(2)		Si	NULL			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	9	email	varchar(100)	utf8_general_ci	Si	NULL			Canvi Elimina Principal Única Índex Més

☐ Marcar-ho tot
 ☐ Amb marca:
 ☐ Navega
 ☐ Canvi
 ☐ Elimina
 ☐ Principal
 ☐ Única
 ☐ Índex
 ☐ Afegir a les columnes centrals

2.3

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



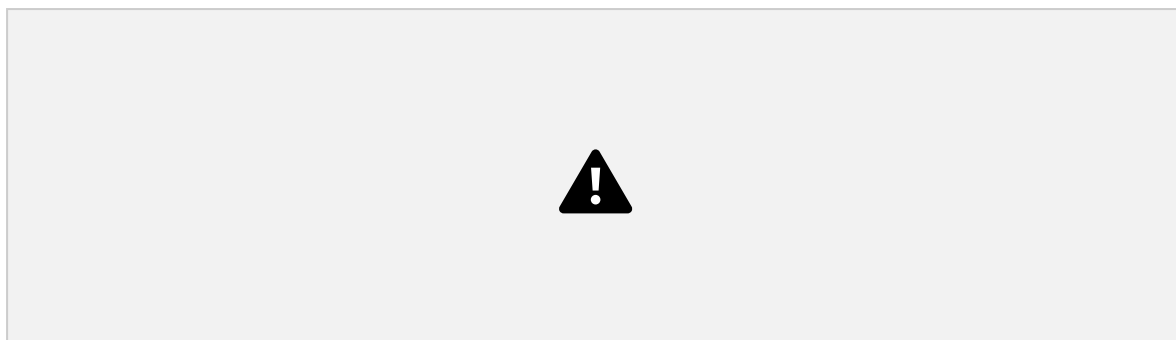
Estructura de taula Vista de relacions

#	Nom	Tipus	Ordenació	Atributs	Nul	Defecte	Comentaris	Extra	Acció
<input type="checkbox"/>	1	name	varchar(20)	utf8_general_ci	No	Cap			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	2	capacity	int(11)		Si	200			Canvi Elimina Principal Única Índex Més
<input type="checkbox"/>	3	codReg	varchar(20)	utf8_general_ci	Si	NULL			Canvi Elimina Principal Única Índex Més

☐ Marcar-ho tot
 ☐ Amb marca:
 ☐ Navega
 ☐ Canvi
 ☐ Elimina
 ☐ Principal
 ☐ Única
 ☐ Índex
 ☐ Afegir a les columnes centrals

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.