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CS 340

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Project Database

←T→			id	username	pass_hash	salary	name
☐	✎	✗	1	hulk	\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0...	20000	Bruce Banner
☐	✎	✗	2	ironman	\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0...	200000	Tony Stark

```
DROP TABLE IF EXISTS Employee;

CREATE TABLE Employee (
    id              INT AUTO_INCREMENT NOT NULL,
    username        VARCHAR(255) UNIQUE NOT NULL,
  pass_hash      BINARY(60) NOT NULL,
    salary          INT,
    name            VARCHAR(255),
    PRIMARY KEY    (id)
) ENGINE=InnoDB, CHARACTER SET=UTF8;

INSERT INTO Employee (username, salary, name)
VALUES ('hulk', 20000, 'Bruce Banner'), ('ironman', 200000, 'Tony Stark');
```

←T→			id	num	street	apt_no	city	state	zip
☐	🖉	✗	1	1234	SW GreenMachine Dr.	NULL	New York	NY	97111
☐	🖉	✗	2	555	SW malibu Pl	3	Los Angeles	CA	97000
☐	🖉	✗	3	0	space GXY	NULL	Milky Way	MW	0

DROP TABLE IF EXISTS Address;

CREATE TABLE Address (
    id   INT AUTO_INCREMENT NOT NULL,
    num   INT NOT NULL,
    street   VARCHAR(255) NOT NULL,
    apt_no   INT,
    city   VARCHAR(255) NOT NULL,
    state   CHAR(2) NOT NULL,
    zip   DECIMAL(5) NOT NULL,
    PRIMARY KEY (id)
) ENGINE=InnoDB, CHARACTER SET=UTF8;

INSERT INTO Address (num, street, state, city, zip, apt_no)
VALUES (1234,'SW GreenMachine Dr.','NY','New York',97111,NULL), (555,'SW malibu Pl', 'CA', 'Los Angeles',97000,3), (000,'space GXY', 'MW', 'Milky Way',00000, NULL);

←T→			id	username	pass_hash	name	address_id
☐	🖉	✗	1	hulk	\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0...	Bruce Banner	1
☐	🖉	✗	2	ironman	\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0...	Tony Stark	2
☐	🖉	✗	3	starlord	\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0...	Peter Quill	3

DROP TABLE IF EXISTS Customer;

CREATE TABLE Customer (
    id   INT AUTO_INCREMENT NOT NULL,
    username   VARCHAR(255) UNIQUE NOT NULL,
    pass_hash   BINARY(60) NOT NULL,
    name   VARCHAR(255) NOT NULL,
    address_id   INT,
    PRIMARY KEY (id),
    FOREIGN KEY (address_id) REFERENCES Address(id) ON DELETE SET NULL
) ENGINE=InnoDB, CHARACTER SET=UTF8;

INSERT INTO Customer (username, name, address_id)
VALUES ('hulk','Bruce Banner',1), ('ironman','Tony Stark',2),('starlord','Peter Quill',3);

←T→	id	cc_number	cc_type	expiration_date	name	user_id
□ ✎ ✕	1	12345678910	VISA	0000-00-00	Bruce Banner	1
□ ✎ ✕	2	10987654321	MASTERCARD	0000-00-00	Tony Stark	2
□ ✎ ✕	3	1111111111111111	BUCKS	0000-00-00	Peter Quill	3

DROP TABLE IF EXISTS Billing_Info;

CREATE TABLE Billing_Info (
    id   INT AUTO_INCREMENT NOT NULL,
    cc_number   DECIMAL(16) NOT NULL,
    cc_type   VARCHAR(255) NOT NULL,
    expiration_date DATE NOT NULL,
    name   VARCHAR(255) NOT NULL,
    user_id   INT NOT NULL,
    PRIMARY KEY (id),
    FOREIGN KEY (user_id) REFERENCES Customer(id) ON DELETE CASCADE
) ENGINE=InnoDB, CHARACTER SET=UTF8;

INSERT INTO Billing_Info (cc_number, cc_type, expiration_date, name, user_id)
VALUES ('12345678910', 'VISA', '6/20/1994', 'Bruce Banner', 1), ('10987654321','MASTERCARD', '5/10/2017','Tony Stark',2),('1111111111111111','BUCKS','12/31/9999','Peter Quill',3);

←T→	plan_id	address_id	billing_id	customer_id
□ ✎ ✕	1	1	1	1
□ ✎ ✕	2	2	2	2
□ ✎ ✕	3	3	3	3

DROP TABLE IF EXISTS Subscription;

CREATE TABLE Subscription (
    plan_id   INT,
    address_id   INT,
    billing_id   INT,
    customer_id   INT,
    PRIMARY KEY (plan_id, address_id),
    FOREIGN KEY (billing_id) REFERENCES Billing_Info(id) ON DELETE CASCADE,
    FOREIGN KEY (customer_id) REFERENCES Customer(id) ON DELETE CASCADE,

```
        FOREIGN KEY (address_id) REFERENCES Address(id) ON DELETE CASCADE
) ENGINE=InnoDB, CHARACTER SET=UTF8;
```

```
INSERT INTO Subscription (billing_id, customer_id, plan_id, address_id)
VALUES (1,1,1,1), (2,2,2,2),(3,3,3,3);
```

			id	name	price	speed	added_by
☐	🖊	✖	1	nada	5.00	10	1
☐	🖊	✖	2	The kitchen Sink	10000.00	9999	2
☐	🖊	✖	3	nada	1.00	1000	1

```
DROP TABLE IF EXISTS Plan;
```

```
CREATE TABLE Plan (
        id                      INT AUTO_INCREMENT NOT NULL,
        name            VARCHAR(255),
        price           DECIMAL(9, 2),
        speed           INT,
        added_by        INT,
        PRIMARY KEY (id),
        FOREIGN KEY (added_by) REFERENCES Employee(id) ON DELETE SET NULL
) ENGINE=InnoDB, CHARACTER SET=UTF8;
```

```
INSERT INTO Plan (name, price,speed, added_by)
VALUES ('nada',5,10,1), ('The kitchen Sink',10000,9999,2),('nada',1,1000,1);
```

			plan_id	address_id
☐	🖊	✖	1	1
☐	🖊	✖	2	2
☐	🖊	✖	1	3

```
DROP TABLE IF EXISTS Address_Plans;
```

```
CREATE TABLE Address_Plans (
```

```
    plan_id          INT NOT NULL,
    address_id         INT NOT NULL,
    PRIMARY KEY (plan_id, address_id),
    FOREIGN KEY (plan_id) REFERENCES Plan(id) ON DELETE CASCADE,
    FOREIGN KEY (address_id) REFERENCES Address(id) ON DELETE CASCADE
) ENGINE=InnoDB, CHARACTER SET=UTF8;

INSERT INTO Address_Plans (plan_id, address_id)
VALUES (1,1), (2,2), (1,3);
```