

## Exercise 2

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SQL:

```
CREATE TABLE Group
(
group_id int NOT NULL PRIMARY KEY
);

CREATE TABLE Company
(
company_id int NOT NULL PRIMARY KEY,
group_company_id int,
FOREIGN KEY (group_company_id) REFERENCES
group(group_id)
);

CREATE TABLE Plant
(
Plant_id int NOT NULL PRIMARY KEY,
plant_company int,
FOREIGN KEY NOT NULL PRIMARY KEY (plant_company)
REFERENCES Company(company_id)
);
CREATE TABLE Item
(
item_id int NOT NULL PRIMARY KEY,
Plant_item int,

FOREIGN KEY NOT NULL PRIMARY KEY(Plant_item)
REFERENCES Company(Plant_id)
);
```

Table as a result:

Group	
PK	<u>group_id</u> int NOT NULL

Plant	
PK	<u>FOREIGN KEY NOT NULL (plant_company) REFERENCES Company(company_id)</u>
PK	<u>Plant_id</u> int NOT NULL
	plant_company int

Company	
PK	<u>FOREIGN KEY (group_compamy_id) REFERENCES group(group_id)</u>
PK	<u>company_id</u> int NOT NULL
	group_compamy_id int

Item	
PK	<u>FOREIGN KEY NOT NULL (Plant_item) REFERENCES Company(Plant_id)</u>
PK	<u>item_id</u> int NOT NULL
	Plant_item int