

US215 – As an Agricultural Manager, I want access to the list of hubs where my customers can collect their orders. A customer may have associated a default hub – the location where they regularly collect purchased products. However, the collection point (hub) can be changed for each order. I can also change a customer's default hub.

The list of hubs is updated whenever necessary through the **table input_hub(input_string VARCHAR(25))** where the records are entered with this information, in csv format, by an external component of my information system.

The following is an example of the csv file that is uploaded to the **input_hub**:

Loc id;lat;lng; Customers-Producers
CT1;40.6389;-8.6553; C1
CT2;38.0333;-7.8833; C2
CT14;38.5243;-8.8926; E1
CT11;39.3167;-7.4167; E2
CT10;39.7444;-8.8072; P3

When this file is loaded into the database, the **input_hub** table gets the following records:

CT1;40.6389;-8.6553; C1
CT2;38.0333;-7.8833; C2
CT14;38.5243;-8.8926; E1
CT11;39.3167;-7.4167; E2
CT10;39.7444;-8.8072; P3

This file has information about clients and hubs. Customers have a code in the Customers-Producers field that begins with the letter C (the first two records in the example above). These records should be ignored as they do not correspond to hubs; the remaining records correspond to hubs and must be persisted in the database in a **hub** table.

Acceptance Criterion [BDDAD]

1. There is a procedure to update the **hub** table from the **input_hub** table when it is updated. The code of a hub is the value of the **Loc id** field
2. It is possible to assign and change a customer's default hub.
3. When the customer makes an order, he can indicate a hub, other than his default hub, to collect the order. The indicated hub must be valid, i.e., must exist in the **hub** table.

US216 – As an Agricultural Manager, I want to include in my production and sales analysis system the local collection dimension (hub). This dimension has an aggregation hierarchy with two levels: hub type, hub. The hub type is given by the letter of your Customers-Producers code.

Acceptance Criterion [BDDAD]

1. The table has been added to the new dimension and is properly structured
2. The fact tables correctly integrate the Local collection dimension.
3. A SQL script to load the Star/Snowflake schema with enough data to support a proof of concept is available and runs without errors.
4. A SQL script to query the data warehouse and support a proof of concept is available and runs without errors. This script answers the following questions:
 - a) Analyze the evolution of monthly sales by type of culture and hub?