Language: MySQL

Below are the picture results of the tables and the script for creating them:

Table (*products*):

```
mysql> SELECT * FROM products;
+------------+--------------------+-------------+
| product_id | name               | category    |
+------------+--------------------+-------------+
|          1 | apple              | fruit       |
|          2 | banana             | fruit       |
|          3 | mechanical keyboard | electronics |
+------------+--------------------+-------------+
3 rows in set (0.00 sec)

mysql>
```

Table (*products*) creation query:

```
CREATE TABLE products (
      product_id int NOT NULL AUTO_INCREMENT,
      name VARCHAR(255),
      category VARCHAR(255),
      PRIMARY KEY(product_id));
```

One of the insertion commands used to create the data of this table (other data in *products* are also added in this same format):

```
INSERT INTO products(name, category) VALUES("apple", "fruit");
```

Table (*product_price_history*):

```
mysql> SELECT * FROM product_price_history;
+------------+------------+-------+------------+------------+
| history_id | product_id | price | start_date | end_date   |
+------------+------------+-------+------------+------------+
|          1 |          2 | 1.99  | 2020-01-01 | 2020-01-30 |
|          2 |          2 | 0.99  | 2020-01-30 | NULL       |
|          3 |          3 | 150.0 | 2020-01-30 | NULL       |
+------------+------------+-------+------------+------------+
3 rows in set (0.00 sec)

mysql>
```

Table (*product_price_history*) creation query:

```
CREATE TABLE product_price_history (
      history_id int NOT NULL AUTO_INCREMENT,
      product_id int NOT NULL,
      price VARCHAR(255),
      start_date DATE NOT NULL,
      end_date DATE,
      PRIMARY KEY(history_id),
      FOREIGN KEY(product_id) REFERENCES products(product_id));
```

One of the insertion commands used to create the data of this table (other data in *product_price_history* are also added in this same format):

```
INSERT INTO product_price_history(product_id, price, start_date, end_date)
      VALUES(2, "1.99", '2020-01-01', '2020-01-30');
```

or

```
INSERT INTO product_price_history(product_id, price, start_date)
      VALUES(2, "0.99", '2020-01-30');
```

Inner Joining Tables (*products & product_price_history*):

```
mysql> SELECT * FROM products, product_price_history
    -> WHERE products.product_id = product_price_history.product_id;
+------------+--------------------+-------------+------------+------------+-------+------------+------------+
| product_id | name               | category    | history_id | product_id | price | start_date | end_date   |
+------------+--------------------+-------------+------------+------------+-------+------------+------------+
|          2 | banana             | fruit       |          1 |          2 | 1.99  | 2020-01-01 | 2020-01-30 |
|          2 | banana             | fruit       |          2 |          2 | 0.99  | 2020-01-30 | NULL       |
|          3 | mechanical keyboard | electronics |          3 |          3 | 150.0 | 2020-01-30 | NULL       |
+------------+--------------------+-------------+------------+------------+-------+------------+------------+
3 rows in set (0.00 sec)

mysql>
```

Table joining query:

```
SELECT * FROM products, product_price_history
      WHERE products.product_id = product_price_history.product_id;
```