1. List all customers

SELECT * FROM S_CUSTOMER_t;

#	Customer_Id	Customer_Name	Customer_Address	Customer_City	Customer_State	Postal_Code
1	1	Contemporary Casuals	1355 S Hines Blvd	Gainesville	FL	32601-2871
2	2	Value Furniture	15145 S.W. 17th St.	Plano	TX	75094-7743
3	3	Home Furnishings	1900 Allard Ave.	Albany	NY	12209-1125
4	4	Eastern Furniture	1925 Beltline Rd.	Carteret	NJ	07008-3188
5	5	Impressions	5585 Westcott Ct.	Sacramento	CA	94206-4056
6	6	Furniture Gallery	325 Flatiron Dr.	Boulder	CO	80514-4432
7	7	Period Furniture	394 Rainbow Dr.	Seattle	WA	97954-5589
8	8	Calfornia Classics	816 Peach Rd.	Santa Clara	CA	96915-7754
9	9	M and H Casual Furniture	3709 First Street	Clearwater	FL	34620-2314
10	10	Seminole Interiors	2400 Rocky Point Dr.	Seminole	FL	34646-4423

2. What is the address of the customer named Home Furnishing? Use Alias, Name for customer name.

SELECT Customer_Name AS Name, Customer_Address
FROM S_CUSTOMER_t
WHERE Customer_Name = 'Home Furnishings';

#	Name	Customer_Address
1	Home Furnishings	1900 Allard Ave.

3. Which Product has a standard price of less than $200?

SELECT Product_Description
FROM S_PRODUCT_t
WHERE Standard_Price < 200;

#	Product_Description	
1	End Table	

4. What is the average standard price of products?

SELECT AVG(Standard_Price) AS Average_Price
FROM S_PRODUCT_t;

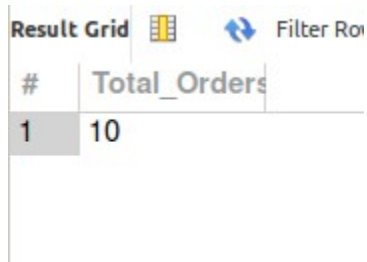Result Grid | Filter Rows:

#	Average_Price	
1	440.625000	

5. What is the price of most expensive product in inventory?

SELECT MAX(Standard_Price) AS Most_Expensive_Price
FROM S_PRODUCT_t;

Result Grid | Filter Rows:

#	Most_Expensive_Price
1	800.00

6. Count all orders.

SELECT COUNT(*) AS Total_Orders
FROM S_ORDER_t;
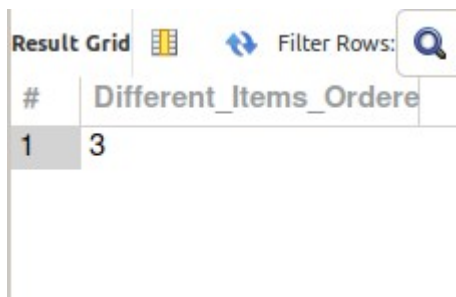
#	Total_Orders
1	10

7. How many different kinds of items were ordered on order number 1006?

SELECT COUNT(DISTINCT Product_Id) AS Different_Items_Ordered
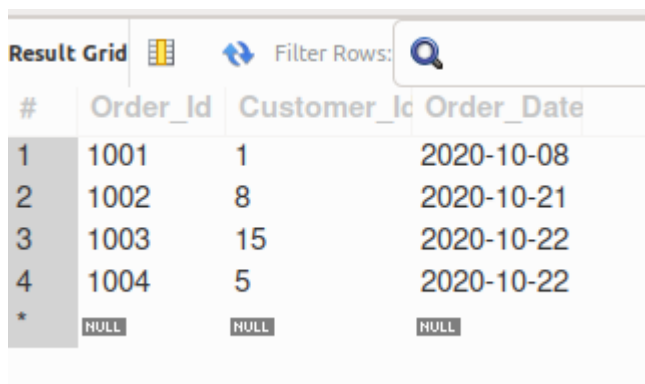FROM S_ORDER_LINE_t
WHERE Order_Id = 1006;

#	Different_Items_Ordere
1	3

8. Which order have been placed before 2020-24-10?

SELECT *
FROM S_ORDER_t
WHERE Order_Date < '2020-10-24';

#	Order_Id	Customer_Id	Order_Date
1	1001	1	2020-10-08
2	1002	8	2020-10-21
3	1003	15	2020-10-22
4	1004	5	2020-10-22
*	NULL	NULL	NULL

9. Alphabetically, what is the last product name in the PRODUCT table? Use an alias NAME.

SELECT Product_Description AS NAME
FROM S_PRODUCT_t
ORDER BY Product_Description DESC
LIMIT 1;

Result Grid | Filter Rows:

#	NAME
1	Writers Desk

Code:

```sql
CREATE DATABASE IF NOT EXISTS M05_HW;
USE M05_HW;

SET FOREIGN_KEY_CHECKS=0;
DROP TABLE IF EXISTS S_CUSTOMER_t;
DROP TABLE IF EXISTS S_ORDER_t;
DROP TABLE IF EXISTS S_PRODUCT_t;
DROP TABLE IF EXISTS S_ORDER_LINE_t;
SET FOREIGN_KEY_CHECKS=1;

CREATE TABLE S_CUSTOMER_t
        (Customer_Id      integer NOT NULL,
            Customer_Name     VARCHAR(25)   ,
            Customer_Address   VARCHAR(30)   ,
         Customer_City      VARCHAR(20)   ,
         Customer_State     VARCHAR(2)    ,
         Postal_Code        VARCHAR(10)   ,
CONSTRAINT S_CUSTOMER_PK PRIMARY KEY (Customer_Id));


CREATE TABLE S_ORDER_t
        (Order_Id     INTEGER NOT NULL,
            Customer_Id   INTEGER        ,
         Order_Date     DATE           ,
CONSTRAINT S_ORDER_PK PRIMARY KEY (Order_Id),
CONSTRAINT S_ORDER_FK1 FOREIGN KEY (Customer_Id) REFERENCES
S_CUSTOMER_t(Customer_Id));


CREATE TABLE S_PRODUCT_t
        (Product_Id INTEGER        NOT NULL,
         Product_Description VARCHAR(50)   ,
         Product_Finish     VARCHAR(20)   ,
         Standard_Price     Decimal(6,2)   ,
CONSTRAINT S_PRODUCT_PK PRIMARY KEY (Product_Id));

CREATE TABLE S_ORDER_LINE_t
            (Order_Id      INTEGER NOT NULL,
         Product_Id    INTEGER NOT NULL,
         Ordered_Quantity INTEGER       ,
CONSTRAINT S_ORDER_LINE_PK PRIMARY KEY (Order_Id, Product_Id),
CONSTRAINT S_ORDER_LINE_FK_ORDER FOREIGN KEY (Order_Id) REFERENCES
S_ORDER_t(Order_Id),
CONSTRAINT S_ORDER_LINE_FK_PRODUCT FOREIGN KEY (Product_Id) REFERENCES
S_PRODUCT_t(Product_Id));
```

INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (1, 'Contemporary Casuals', '1355 S Hines Blvd', 'Gainesville', 'FL', '32601-2871');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (2, 'Value Furniture', '15145 S.W. 17th St.', 'Plano', 'TX', '75094-7743');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (3, 'Home Furnishings', '1900 Allard Ave.', 'Albany', 'NY', '12209-1125');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (4, 'Eastern Furniture', '1925 Beltline Rd.', 'Carteret', 'NJ', '07008-3188');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (5, 'Impressions', '5585 Westcott Ct.', 'Sacramento', 'CA', '94206-4056');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (6, 'Furniture Gallery', '325 Flatiron Dr.', 'Boulder', 'CO', '80514-4432');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (7, 'Period Furniture', '394 Rainbow Dr.', 'Seattle', 'WA', '97954-5589');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (8, 'Calfornia Classics', '816 Peach Rd.', 'Santa Clara', 'CA', '96915-7754');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (9, 'M and H Casual Furniture', '3709 First Street', 'Clearwater', 'FL', '34620-2314');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (10, 'Seminole Interiors', '2400 Rocky Point Dr.', 'Seminole', 'FL', '34646-4423');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (11, 'American Euro Lifestyles', '2424 Missouri Ave N.', 'Prospect Park', 'NJ', '07508-5621');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (12, 'Battle Creek Furniture', '345 Capitol Ave. SW', 'Battle Creek', 'MI', '49015-3401');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (13, 'Heritage Furnishings', '66789 College Ave.', 'Carlisle', 'PA', '17013-8834');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (14, 'Kaneohe Homes', '112 Kiowai St.', 'Kaneohe', 'HI', '96744-2537');
INSERT INTO S_CUSTOMER_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code)
VALUES (15, 'Mountain Scenes', '4132 Main Street', 'Ogden', 'UT', '84403-4432');

INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1001, '2020-10-08', 1);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1002, '2020-10-21', 8);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1003, '2020-10-22', 15);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1004, '2020-10-22', 5);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1005, '2020-10-24', 3);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1006, '2020-10-24', 2);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1007, '2020-10-27', 11);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1008, '2020-10-30', 12);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1009, '2020-11-05', 4);
INSERT INTO S_ORDER_t (Order_Id, Order_Date, Customer_Id)
VALUES (1010, '2020-11-05', 1);

INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (1, 'End Table', 'Cherry', 175);
INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (2, 'Coffe Table', 'Natural Ash', 200);
INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (3, 'Computer Desk', 'Natural Ash', 375);
INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (4, 'Entertainment Center', 'Natural Maple', 650);
INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (5, 'Writers Desk', 'Cherry', 325);
INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (6, '8-Drawer Desk', 'White Ash', 750);
INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (7, 'Dining Table', 'Natural Ash', 800);
INSERT INTO S_PRODUCT_t (Product_Id, Product_Description, Product_Finish, Standard_Price)
VALUES (8, 'Computer Desk', 'Walnut', 250);

```
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1001, 1, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1001, 2, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1001, 4, 1);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1002, 3, 5);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1003, 3, 3);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1004, 6, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1004, 8, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1005, 4, 3);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1006, 4, 1);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1006, 5, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1006, 7, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1007, 1, 3);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1007, 2, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1008, 3, 3);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1008, 8, 3);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1009, 4, 2);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1009, 7, 3);
INSERT INTO S_ORDER_LINE_t  (Order_Id, Product_Id, Ordered_Quantity)
VALUES  (1010, 8, 10);

DESC S_ORDER_LINE_t;
DESC S_ORDER_t;
DESC S_PRODUCT_t;
DESC S_CUSTOMER_t;
```