

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	California 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;
```

#	Average_Price
1	440.625000

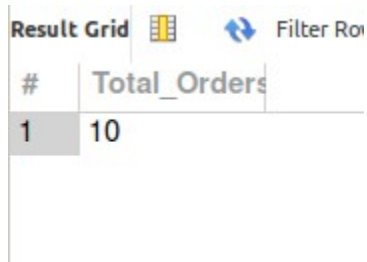
5. What is the price of most expensive product in inventory?

```
SELECT MAX(Standard_Price) AS Most_Expensive_Price
FROM S_PRODUCT_t;
```

#	Most_Expensive_Price
1	800.00

6. Count all orders.

```
SELECT COUNT(*) AS Total_Orders  
FROM S_ORDER_t;
```

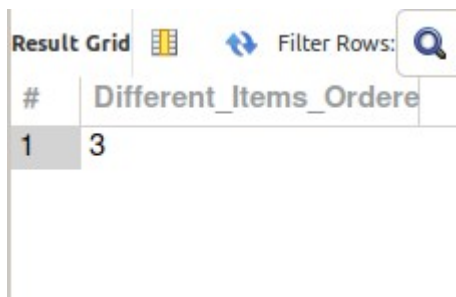


The screenshot shows a 'Result Grid' with a toolbar containing icons for a grid, a refresh arrow, and a 'Filter Rows' button. The grid has two columns: '#' and 'Total_Orders'. The first row shows the value '1' in the '#' column and '10' in the 'Total_Orders' column.

#	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;
```

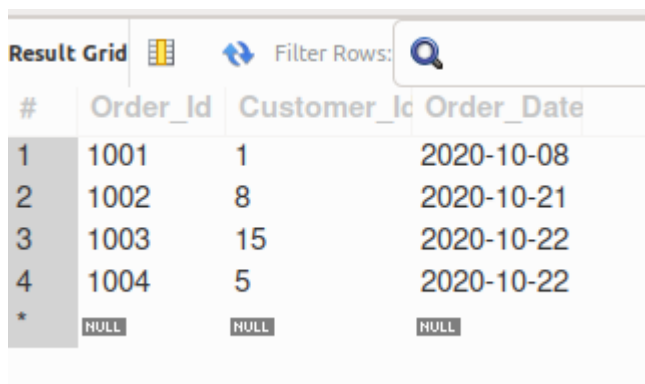


The screenshot shows a 'Result Grid' with a toolbar containing icons for a grid, a refresh arrow, a 'Filter Rows' button, and a search icon. The grid has two columns: '#' and 'Different_Items_Ordered'. The first row shows the value '1' in the '#' column and '3' in the 'Different_Items_Ordered' column.

#	Different_Items_Ordered
1	3

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

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



The screenshot shows a 'Result Grid' with a toolbar containing icons for a grid, a refresh arrow, a 'Filter Rows' button, and a search icon. The grid has four columns: '#', 'Order_Id', 'Customer_Id', and 'Order_Date'. The first four rows show order data, and the fifth row shows a row with all NULL values.

#	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:

```
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, 'California 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;
```