

**NANYANG
TECHNOLOGICAL
UNIVERSITY**

SINGAPORE

SC2207 Lab 5

Tutorial Group A34, Group 3

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INDIVIDUAL CONTRIBUTION FORM

Full Name	Individual Contribution to Lab 5 Submission	Percentage of Contribution	Signature
Hendy	Worked on the table creation, data insertion and contributed to the formulation of several queries.	20%	
Lim Jin Feng, Alexus	Worked on the table creation, data insertion and contributed to the formulation of several queries.	20%	
Cai Kaihang	Worked on the table creation, data insertion and contributed to the formulation of several queries.	20%	
Yeoh Ming Wei	Worked on the table creation, data insertion and contributed to the formulation of several queries.	20%	
Sim Wei Feng	Worked on the table creation, data insertion and contributed to the formulation of several queries.	20%	

DDL Script for Table creation:

Delete/Drop Tables:

```
IF OBJECT_ID('dbo.BookstoreComplaint', 'U') IS NOT NULL DROP TABLE
dbo.BookstoreComplaint
```

```
IF OBJECT_ID('dbo.OrderComplaint', 'U') IS NOT NULL DROP TABLE
dbo.OrderComplaint
```

```
IF OBJECT_ID('dbo.[PriceRecords]', 'U') IS NOT NULL DROP TABLE
dbo.[PriceRecords]
```

```
IF OBJECT_ID('dbo.ItemsInOrder', 'U') IS NOT NULL DROP TABLE dbo.ItemsInOrder
```

```
IF OBJECT_ID('dbo.ComplaintHistory', 'U') IS NOT NULL DROP TABLE
dbo.ComplaintHistory
```

```
IF OBJECT_ID('dbo.Magazine', 'U') IS NOT NULL DROP TABLE dbo.Magazine
```

```
IF OBJECT_ID('dbo.Book', 'U') IS NOT NULL DROP TABLE dbo.Book
```

```
IF OBJECT_ID('dbo.Orders', 'U') IS NOT NULL DROP TABLE dbo.[Orders]
```

```
IF OBJECT_ID('dbo.Inventory', 'U') IS NOT NULL DROP TABLE dbo.Inventory
```

```
IF OBJECT_ID('dbo.Complaints', 'U') IS NOT NULL DROP TABLE dbo.Complaints
```

```
IF OBJECT_ID('dbo.Bookstore', 'U') IS NOT NULL DROP TABLE dbo.Bookstore
```

```
IF OBJECT_ID('dbo.Customer', 'U') IS NOT NULL DROP TABLE dbo.Customer
```

```
IF OBJECT_ID('dbo.Employee', 'U') IS NOT NULL DROP TABLE dbo.Employee
```

```
IF OBJECT_ID('dbo.Publication', 'U') IS NOT NULL DROP TABLE dbo.Publication
```

Creation of Tables and Foreign Key constraints:

```
CREATE TABLE Bookstore (  
    [company-ID] varchar(255) NOT NULL  
  
    PRIMARY KEY([company-ID])  
);  
  
CREATE TABLE Customer (  
    [customerID] varchar(255) NOT NULL,  
    [name] varchar(255)  
  
    PRIMARY KEY([customerID])  
);  
  
CREATE TABLE Orders (  
    [order-ID] varchar(255) NOT NULL,  
    [shipping-addr] varchar(255),  
    [shipping-cost] float,  
    [timestamp] datetime,  
    [customer-ID] varchar(255)  
  
    PRIMARY KEY([order-ID]),  
    FOREIGN KEY([customer-ID]) REFERENCES Customer([customerID]) ON DELETE  
CASCADE  
);  
  
CREATE TABLE Employee (  
    [employee-ID] varchar(255) NOT NULL,  
    [name] varchar(255),  
    [monthly-salary] float  
  
    PRIMARY KEY([employee-ID])
```

```
);
```

```
CREATE TABLE Publication (  
    [publication-ID] varchar(255) NOT NULL,  
    publisher varchar(255),  
    [year of publication] int  
  
    PRIMARY KEY([publication-ID])  
);
```

```
);
```

```
CREATE TABLE Magazine (  
    [publication-ID] varchar(255) NOT NULL,  
    issue varchar(255),  
    title varchar(255)
```

```
    FOREIGN KEY([publication-ID]) REFERENCES Publication([publication-ID]) ON  
DELETE CASCADE
```

```
);
```

```
CREATE TABLE Book (  
    [publication-ID] varchar(255) NOT NULL,  
    title varchar(255),
```

```
    FOREIGN KEY([publication-ID]) REFERENCES Publication([publication-ID]) ON  
DELETE CASCADE
```

```
);
```

```
CREATE TABLE Complaints (  
    [complaint-ID] varchar(255) NOT NULL,  
    [employee-ID] varchar(255),  
    [customer-ID] varchar(255),  
    [message] varchar(255),  
    [status] varchar(255)
```

```

        PRIMARY KEY([complaint-ID])

        FOREIGN KEY([employee-ID]) REFERENCES Employee([employee-ID]) ON DELETE
        CASCADE,

        FOREIGN KEY([customer-ID]) REFERENCES Customer([customerID]) ON DELETE
        CASCADE

    );

CREATE TABLE BookstoreComplaint (

    [complaint-ID] varchar(255) NOT NULL,

    [company-ID] varchar(255)

    FOREIGN KEY([complaint-ID]) REFERENCES Complaints([complaint-ID]) ON DELETE
    CASCADE,

    FOREIGN KEY([company-ID]) REFERENCES Bookstore([company-ID]) ON DELETE
    CASCADE

);

CREATE TABLE OrderComplaint (

    [complaint-ID] varchar(255) NOT NULL,

    [order-ID] varchar(255)

    FOREIGN KEY([complaint-ID]) REFERENCES Complaints([complaint-ID]),

    FOREIGN KEY([order-ID]) REFERENCES Orders([order-ID])

);

CREATE TABLE ComplaintHistory (

    [complaint-ID] varchar(255) NOT NULL,

    [status] varchar(255) NOT NULL,

    [date] datetime NOT NULL,

    PRIMARY KEY([complaint-ID], status),

    FOREIGN KEY([complaint-ID]) REFERENCES Complaints([complaint-ID]) ON DELETE
    CASCADE

);

```

```

CREATE TABLE Inventory (

    [inventory-ID] varchar(255) NOT NULL,

    [selling-price] float,

    [qty-in-stock] int,

    [publication-ID] varchar(255),

    [company-ID] varchar(255)


    PRIMARY KEY([inventory-ID]),

    FOREIGN KEY([publication-ID]) REFERENCES Publication([publication-ID]) ON
DELETE CASCADE,

    FOREIGN KEY([company-ID]) REFERENCES Bookstore([company-ID]) ON DELETE
CASCADE

);

```

```

CREATE TABLE PriceRecords (

    [time-updated] datetime NOT NULL,

    [inventory-ID] varchar(255) NOT NULL,

    price float


    PRIMARY KEY([time-updated], [inventory-ID]),

    FOREIGN KEY([inventory-ID]) REFERENCES Inventory([inventory-ID]) ON DELETE
CASCADE

);

```

```
CREATE TABLE ItemsInOrder (  
    [item-ID] varchar(255) NOT NULL,  
    [order-ID] varchar(255) NOT NULL,  
    [inventory-ID] varchar(255) NOT NULL,  
    [total-price] float,  
    [item-qty] int,  
    [status] varchar(255),  
    [delivery-date] datetime,  
    rating float,  
    comment varchar(255),  
    [date-time] datetime  
  
    PRIMARY KEY([item-ID]),  
    FOREIGN KEY([order-ID]) REFERENCES Orders([order-ID]) ON DELETE CASCADE,  
    FOREIGN KEY([inventory-ID]) REFERENCES Inventory([inventory-ID]) ON DELETE  
    CASCADE  
);
```


Data insertion

---- Population of Bookstore

```
DECLARE @id INT

SET @id = 1

WHILE @id < 21

BEGIN

    INSERT INTO BookStore ("company-ID")

    VALUES(@id)

    SET @id = @id + 1

END;
```

--- Population of Publication

```
INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (1, 'Nanyang Publisher Company' , 1998);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (3, 'Nanyang Publisher Company' , 2003);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (4, 'Nanyang Publisher Company' , 2000);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (5, 'Nanyang Publisher Company' , 2007);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (7, 'Nanyang Publisher Company' , 1998);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (14, 'Nanyang Publisher Company' , 2013);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (2, 'Temasek Publisher Company' , 2001);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (6, 'Temasek Publisher Company' , 2002);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (9, 'Temasek Publisher Company' , 2003);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (11, 'Temasek Publisher Company' , 2004);

INSERT INTO Publication ([publication-ID],publisher,[year of publication])
VALUES (8, 'Penguin Publishers' , 1990);
```

```
INSERT INTO Publication ([publication-ID],publisher,[year of publication])  
VALUES (15, 'Penguin Publishers' , 1990);
```

```
INSERT INTO Publication ([publication-ID],publisher,[year of publication])  
VALUES (10, 'Penguin Publishers' , 2000);
```

```
INSERT INTO Publication ([publication-ID],publisher,[year of publication])  
VALUES (12, 'Penguin Publishers' , 2010);
```

```
INSERT INTO Publication ([publication-ID],publisher,[year of publication])  
VALUES (13, 'Penguin Publishers' , 2012);
```

--- Population of Book

```
INSERT INTO Book ([publication-ID],title) VALUES (1, 'Harry Potter: The Boy  
that Lifts');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (14, 'Harry Potter Finale');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (4, 'Harry Potter: One in the  
Chamber');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (5, 'Bridge to Terabithia');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (3, 'The Nightingale');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (7, 'The Catcher in the Rye');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (8, 'Oxford Dictionary');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (10, 'Art of War');
```

```
INSERT INTO Book ([publication-ID],title) VALUES (15, 'Stanford Dictionary');
```

--- Population of Magazine

```
INSERT INTO Magazine ([publication-ID],issue, title) VALUES (2, 'Vol. 1 , No. 1', 'Global Sciences: Chemistry');
```

```
INSERT INTO Magazine ([publication-ID],issue, title) VALUES (6, 'Vol. 1 , No. 2', 'Global Sciences: Physics');
```

```
INSERT INTO Magazine ([publication-ID],issue, title) VALUES (9, 'Vol. 1 , No. 3', 'Global Sciences: Biology');
```

```
INSERT INTO Magazine ([publication-ID],issue, title) VALUES (11, 'Vol. 2 , No. 1', 'Global Sciences: Astronomy');
```

```
INSERT INTO Magazine ([publication-ID],issue, title) VALUES (12, 'No. 1', 'Lifestyle');
```

```
INSERT INTO Magazine ([publication-ID],issue, title) VALUES (13, 'No. 2', 'Lifestyle');
```

-- Population of Employee table

```
INSERT INTO Employee([employee-ID],[name],[monthly-salary])  
VALUES(101,'John',2000);
```

```
INSERT INTO Employee([employee-ID],[name],[monthly-salary])  
VALUES(102,'Tom',1650);
```

```
INSERT INTO Employee([employee-ID],[name],[monthly-salary])  
VALUES(103,'Ben',1500);
```

```
INSERT INTO Employee([employee-ID],[name],[monthly-salary])  
VALUES(104,'Sam',1500);
```

```
INSERT INTO Employee([employee-ID],[name],[monthly-salary])  
VALUES(105,'Mike',1800);
```

-- Population of Customer table

```
INSERT INTO Customer([customerID],[name]) VALUES(1001,'Alan');

INSERT INTO Customer([customerID],[name]) VALUES(1002,'Beck');

INSERT INTO Customer([customerID],[name]) VALUES(1003,'Charlie');

INSERT INTO Customer([customerID],[name]) VALUES(1004,'Don');

INSERT INTO Customer([customerID],[name]) VALUES(1005,'Eliza');

INSERT INTO Customer([customerID],[name]) VALUES(1006,'Fred');

INSERT INTO Customer([customerID],[name]) VALUES(1007,'Greg');

INSERT INTO Customer([customerID],[name]) VALUES(1008,'Hector');

INSERT INTO Customer([customerID],[name]) VALUES(1009,'Ivan');
```

--- Population of Orders

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('1', '8, Nanyang Drive, 637719', 3.0, '7/23/2022
20:34:10', '1005');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('2', '8 Bukit Batok Street 41, Singapore 657993', 4,
'7/31/2022 12:34:10', '1001');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('3', '645 Jurong West Street 61, Singapore 640645', 3.5,
'8/4/2022 3:31:12', '1003');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('4', '285B Toh Guan Rd, Singapore 602285', 4, '8/1/2022
11:32:12', '1002');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('5', '645 Jurong West Street 61, Singapore 640645', 3.5,
'8/3/2022 9:23:58', '1003');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('6', '8, Nanyang Drive, 637719', 3, '8/2/2022 11:32:12',
'1005');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('7', '42 Eng Neo Ave, Singapore 289533', 4, '7/27/2022
11:32:12', '1004');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('8', '125 Whitley Rd, Singapore 297820', 4.50,
'8/10/2022 11:32:12', '1009');
```

```

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('9', '8 Bukit Batok Street 41, Singapore 657993', 4,
'8/11/2022 13:32:23', '1001');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('10', '19 Pepys Rd, Singapore 118450', 3.5, '2022-08-20
15:38:12', '1006');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('11', '8 Bukit Batok Street 41, Singapore 657993', 4,
'8/24/2022 23:15:29', '1001');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('12', '645 Jurong West Street 61, Singapore 640645',
3.5, '8/27/2022 19:29:12', '1003');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('13', '95 Jln Kampong Chantek, Singapore 588648', 4,
'8/25/2022 0:29:32', '1008');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('14', '8, Nanyang Drive, 637719', 3, '8/15/2022
20:38:23', '1005');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('15', '8 Bukit Batok Street 41, Singapore 657993', 4,
'2022-08-20 10:32:12', '1001');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('16', '367 Woodlands Ave 5, Singapore 730367', 4,
'8/12/2022 0:29:23', '1007');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('17', '285B Toh Guan Rd, Singapore 602285', 4,
'7/13/2022 17:12:39', '1002');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('18', '8 Bukit Batok Street 41, Singapore 657993', 4.00,
'7/1/2022 16:32:10', '1001');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('19', '19 Pepys Rd, Singapore 118450', 3.5, '7/9/2022
19:58:23', '1006');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('20', '285B Toh Guan Rd, Singapore 602285', 4.00,
'7/18/2022 16:45:32', '1002');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('21', '19 Pepys Rd, Singapore 118450', 3.50, '2022-07-10
17:58:32', '1006');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",
"customer-ID") VALUES ('22', '285B Toh Guan Rd, Singapore 602285', 4,
'2022-07-20 23:25:49', '1002');

INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp",

```

```
"customer-ID") VALUES ('23', '8 Bukit Batok Street 41, Singapore 657993', 4, '2022-06-2 02:58:32', '1001');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('24', '645 Jurong West Street 61, Singapore 640645', 3.50, '2022-06-07 12:48:59', '1003');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('25', '8 Bukit Batok Street 41, Singapore 657993', 4, '2022-06-10 11:59:32', '1001');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('26', '8, Nanyang Drive, 637719', 3, '2022-06-21 14:23:39', '1005');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('27', '285B Toh Guan Rd, Singapore 602285', 4, '2022-06-13 16:29:30', '1002');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('28', '42 Eng Neo Ave, Singapore 289533', 4, '2022-08-10 18:23:49', '1004');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('29', '95 Jln Kampong Chantek, Singapore 588648', 4, '2022-08-12 17:23:49', '1008');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('30', '645 Jurong West Street 61, Singapore 640645', 3.5, '2022-08-22 20:59:49', '1003');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('31', '645 Jurong West Street 61, Singapore 640645', 3.5, '2022-08-11 23:59:49', '1003');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('32', '8, Nanyang Drive, 637719', 3, '2022-06-01 08:29:59', '1005');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('33', '19 Pepys Rd, Singapore 118450', 3.5, '2022-09-15 22:19:59', '1006');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('34', '8, Nanyang Drive, 637719', 3, '2022-09-17 16:23:22', '1005');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('35', '367 Woodlands Ave 5, Singapore 730367', 4, '2022-09-08 20:25:23', '1007');
```

```
INSERT INTO Orders ("order-ID", "shipping-addr", "shipping-cost", "timestamp", "customer-ID") VALUES ('36', '125 Whitley Rd, Singapore 297820', 4.5, '2022-05-13 23:58:23', '1009');
```

-- Population of Complaints table

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(1,
101, 1001, 'I received a damaged book', 'Pending');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(2,
102, 1002, 'I received the wrong book', 'Addressed');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(3,
103, 1003, 'I did not receive my order at all', 'Pending');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(4,
101, 1004, 'I have a problem with my payment process', 'Pending');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(5,
102, 1005, 'I am not able to place orders', 'Addressed');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(6,
104, 1009, 'I ordered a book weeks ago and its still not here', 'Pending');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(7,
103, 1001, 'The book received had missing pages', 'Pending');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(8,
105, 1006, 'I ordered hard cover but received a paperback', 'Addressed');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status) VALUES(9,
101, 1005, 'My order was cancelled without explanation', 'Pending');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(10, 102, 1003, 'I never got the book I ordered weeks ago', 'Addressed');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(11, 103, 1002, 'The contents of the book did not match the description
given', 'Addressed');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(12, 104, 1007, 'The website advertised the book as available but it is
actually out of stock', 'Pending');
```

```
INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(13, 105, 1001, 'I got charged more than what was advertised in my
order', 'Addressed');
```

```

INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(14, 101, 1001, 'Misleading description given for book', 'Addressed');

INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(15, 102, 1008, 'Book has the wrong description information displayed',
'Addressed');

INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(16, 104, 1003, 'Lack of variety in book choices', 'Addressed');

INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(17, 105, 1001, 'High price, but low quality books', 'Pending');

INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(18, 103, 1002, 'Lack of refund option', 'Pending');

INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(19, 101, 1005, 'Confusing UI, accidently bought 2 copies of the same
book without realising', 'Addressed');

INSERT INTO
Complaints([complaint-ID],[employee-ID],[customer-ID],message,status)
VALUES(20, 102, 1006, 'Limited book choice', 'Pending');

```

-- Population of OrderComplaint table

```

TRUNCATE TABLE OrderComplaint;

INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(1,2);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(2,4);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(3,5);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(4,7);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(5,1);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(6,8);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(7,9);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(8,10);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(9,6);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(10,3);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(17, 11);

```



```

INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(16, 12);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(15, 13);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(19, 14);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(12, 16);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(11, 17);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(13, 18);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(20, 19);
INSERT INTO OrderComplaint([complaint-ID],[order-ID]) VALUES(18, 20);

```

-- Population of BookstoreComplaint table

```

TRUNCATE TABLE BookstoreComplaint;

INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(11,2);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(12,3);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(13,4);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(14,2);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(15,11);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(16,12);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(17,5);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(18,6);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(19,7);
INSERT INTO BookstoreComplaint([complaint-ID],[company-ID]) VALUES(20,10);

```

-- Population of ComplaintHistory table

```

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(1,'Pending','2022-08-01');

```

```
INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(10,'Pending','2022-08-05');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(10,'Being
Handled','2022-08-06');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(10,'Addressed','2022-08-07');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(11,'Pending','2022-07-14');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(11,'Being
Handled','2022-07-15');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(11,'Addressed','2022-07-17');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(12,'Pending','2022-08-13');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(13,'Pending','2022-07-02');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(13,'Being
Handled','2022-07-03');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(13,'Addressed','2022-07-05');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(14,'Pending','2022-08-21');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(14,'Being
Handled','2022-08-22');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(14,'Addressed','2022-08-26');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(15,'Pending','2022-08-26');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(15,'Being
Handled','2022-08-27');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(15,'Addressed','2022-08-28');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(16,'Pending','2022-08-28');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(16,'Being
Handled','2022-08-29');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES(16,'Addressed','2022-09-01');
```

```
INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (17,'Pending','2022-08-25');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES (17,'Being
Handled','2022-08-26');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (18,'Pending','2022-07-19');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (19,'Pending','2022-08-16');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES (19,'Being
Handled','2022-08-17');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (19,'Addressed','2022-08-19');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (2,'Pending','2022-08-02');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES (2,'Being
Handled','2022-08-03');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (2,'Addressed','2022-08-07');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (20,'Pending','2022-07-10');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES (20,'Being
Handled','2022-07-11');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (3,'Pending','2022-08-04');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES (3,'Being
Handled','2022-08-05');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (4,'Pending','2022-07-28');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (5,'Pending','2022-07-24');

INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES (5,'Being
Handled','2022-07-25');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (5,'Addressed','2022-07-28');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (6,'Pending','2022-08-11');

INSERT INTO ComplaintHistory([complaint-ID],status,date)
VALUES (7,'Pending','2022-08-12');
```

```
INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(7,'Being Handled','2022-08-13');
```

```
INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(8,'Pending','2022-08-21');
```

```
INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(8,'Being Handled','2022-08-22');
```

```
INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(8,'Addressed','2022-08-23');
```

```
INSERT INTO ComplaintHistory([complaint-ID],status,date) VALUES(9,'Pending','2022-08-03');
```

-- Population of Inventory

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(1,13.5,23,14,1);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(10,14,6,1,1);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(11,15,7,1,19);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(12,12.7,1,1,9);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(13,13.2,2,1,20);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(14,8,17,8,2);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(15,7,18,8,13);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(16,8,20,8,14);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(2,23.5,2,14,2);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(3,13.5,10,14,3);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(4,13,11,14,4);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(5,14,30,14,7);
```

```
INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],[publication-ID],[company-ID]) VALUES(6,19,26,14,8);
```

```

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (7,20,3,4,1);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (8,22,14,4,18);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (9,21,16,4,17);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (17,15,30,3,16);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (18,14.5,50,3,15);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (19,14.7,20,3,5);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (20,12,35,5,6);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (21,11.1,55,5,10);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (22,13,24,5,12);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (23,18,47,7,11);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (24,17,53,7,3);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (25,16,93,7,7);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (26,14.98,75,10,15);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (27,16,45,10,14);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (28,13,15,10,11);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (29,7.9,69,12,4);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (30,7.5,36,13,5);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (31,15,50,9,12);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (32,8,57,12,9);

```

```

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (33,7,97,13,10);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (34,14,39,9,13);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (35,7,35,12,8);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (36,6.5,40,13,6);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (37,13,30,11,19);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (38,12,38,11,17);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (39,13,45,11,18);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (40,14,48,2,16);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (41,14,30,2,20);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (42,14.5,30,2,15);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (43,13.5,20,6,4);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (44,13,25,6,14);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (45,14,37,6,7);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (46,14.5,40,9,2);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (47,21,27,15,7);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (48,20,25,15,10);

INSERT INTO Inventory([inventory-ID],[selling-price],[qty-in-stock],
[publication-ID], [company-ID]) VALUES (49,19,40,15,15);

```

-- Population of PriceRecords

```

INSERT INTO PriceRecords([time-updated], [inventory-ID], price)

VALUES ('2022-08-01 12:23:01', 1, 13.5);

```

```

INSERT INTO PriceRecords([time-updated], [inventory-ID], price)
VALUES ('2021-09-10 12:00:00', 2, 23.5);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price)
VALUES ('2022-08-11 13:30:25', 3, 13.5);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price)
VALUES ('2022-08-18 18:15:00', 4, 13.5);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price)
VALUES ('2022-08-27 19:30:00', 5, 14);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price)
VALUES ('2022-10-09 00:00:00', 6, 19);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2021-03-31 12:00:00', 7, 20);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2021-04-01 13:00:00', 8, 19.50);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2021-03-30 12:15:00', 9, 19.50);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2021-12-09 00:00:00', 10, 16);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2021-11-09 16:00:21', 11, 16.50);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2022-01-09 15:13:20', 12, 17);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2022-01-10 11:31:14', 13, 17);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2022-02-26 14:14:15', 14, 11);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2022-11-23 13:11:11', 15, 12);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2022-12-13 17:46:01', 16, 11.50);

INSERT INTO PriceRecords([time-updated], [inventory-ID], price) VALUES
('2022-01-09 12:44:13', 10, 16.50);

```

--Population of ItemsInOrders

```

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], status, [delivery-date], rating, comment, [date-time])

VALUES (1, 17, 10, 28.00, 2, 'Delivered', '2022-07-16 19:33:23', 3, 'Packaging
not so good', '2022-07-16 19:33:23')

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], status, [delivery-date], rating, comment, [date-time])

VALUES (2, 1, 5, 28.00, 2, 'Delivered', '2022-08-01 12:58:00', 5, 'Nice
driver', '2022-08-01 12:58:00')

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], status, [delivery-date], rating, comment, [date-time])

VALUES (3, 5, 6, 38.00, 2, 'Delivered', '2022-08-11 13:58:22', 5, 'Fast
Delivery!', '2022-08-11 13:58:22')

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], status, [delivery-date], rating, comment, [date-time])

VALUES (4, 17, 12, 12.70, 1, 'Delivered', '2022-07-15 18:32:25', 4, 'Rude
driver but good item', '2022-07-15 18:32:25')

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], status, [delivery-date], rating, comment, [date-time])

VALUES (5, 1, 4, 26.00, 2, 'Delivered', '2022-08-04 10:13:54', 5, 'Nice book!',
'2022-08-04 10:13:54')

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], status, [delivery-date], rating, comment, [date-time])

VALUES (6, 3, 5, 42.00, 3, 'Delivered', '2022-08-10 18:43:22', 5, 'Bought for
my friends', '2022-08-19 18:43:22')

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], status, [delivery-date], rating, comment, [date-time])

VALUES (7, 18, 12, 25.40, 2, 'Being Processed', NULL, NULL, NULL, NULL)

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(8, 8, 4, 26, 2, 'Delivered', '2022-08-16 19:15:32', 5, 'Gift for
friend!', '2022-08-16 19:15:32');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(9, 21, 13, 26.4, 2, 'Delivered', '2022-07-12 16:48:23', 3, 'Bad
packaging, slow delivery', '2022-07-12 16:48:23');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

```



```

VALUES(10, 10, 5, 42, 3, 'Delivered', '2022-08-25 16:15:01', 5, 'Nice delivery
service!', '2022-08-25 16:15:01');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(11, 9, 17, 150, 10, 'Delivered', '2022-08-20 11:13:20', 5, 'Nice book!',
'2022-08-20 11:13:20');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(12, 21, 13, 13.2, 1, 'Being Processed', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(13, 2, 18, 29, 2, 'Delivered', '2022-08-06 0:15:23', 5, 'Great book that
I read', '2022-08-06 0:15:23');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(14, 28, 38, 180, 15, 'Delivered', '2022-08-13 16:28:32', 4, 'Poor
packaging but nice driver, keeps apologizing', '2022-08-13 16:28:32');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(15, 1, 17, 30, 2, 'Delivered', '2022-08-02 18:22:30', 5, 'Nice book!',
'2022-08-02 18:22:30');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(16, 28, 37, 195, 15, 'Delivered', '2022-08-15 17:23:54', 5, NULL,
'2022-08-15 17:23:54');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(17, 3, 20, 240, 20, 'Delivered', '2022-08-08 11:23:59', 5, NULL,
'2022-08-08 11:23:59');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(18, 22, 10, 14, 1, 'Shipped', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(19, 22, 12, 12.7, 1, 'Shipped', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

```

```

VALUES(20, 3, 20, 240, 20, 'Delivered', '2022-08-11 01:32:33', 5, 'Great
book!', '2022-08-11 01:32:33');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(21, 22, 6, 57, 3, 'Being Processed', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(22, 9, 3, 27, 2, 'Delivered', '2022-08-20 08:33:23', 5, 'Nice driver!',
'2022-08-20 08:33:23');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(23, 4, 2, 70.5, 3, 'Delivered', '2022-08-07 01:23:20', 5, 'Fast
Delivery!', '2022-08-07 1:23:20');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(24, 18, 4, 26, 2, 'Delivered', '2022-07-07 14:23:22', 3, 'Poor
packaging!', '2022-07-07 14:23:22');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(25, 5, 17, 30, 2, 'Delivered', '2022-08-09 19:19:59', 5, 'Nice book!',
'2022-08-09 19:19:59');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(26, 11, 5, 28, 2, 'Delivered', '2022-08-29 10:32:13', 5, 'Thanks for the
book!', '2022-08-29 10:32:13');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(27, 11, 20, 24, 2, 'Delivered', '2022-08-30 01:48:40', 5, 'Great book,
will order again!', '2022-08-30 01:48:40');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(28, 8, 18, 43.5, 3, 'Delivered', '2022-08-18 15:49:50', 5, 'Nice book!',
'2022-08-18 15:49:50');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(29, 21, 4, 39, 3, 'Delivered', '2022-07-14 13:58:29', 2, 'poor packaging
and poor attitude of driver', '2022-07-14 13:58:29');

```

```

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(30, 18, 6, 38, 2, 'Delivered', '2022-07-09 13:29:30', 3, 'Poor driver
attitude, slow delivery, wont buy again', '2022-07-09 13:29:30');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(31, 12, 17, 30, 2, 'Delivered', '2022-08-31 12:43:09', 5, 'Great
delivery', '2022-08-31 12:43:09');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(32, 10, 3, 40.5, 3, 'Delivered', '2022-08-22 19:59:02', 5, 'Nice
packaging', '2022-08-22 19:59:02');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(33, 20, 19, 29.4, 2, 'Delivered', '2022-07-23 16:58:40', 4, 'Not so
great book but bought for friends', '2022-07-23 16:58:40');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(34, 6, 20, 180, 15, 'Delivered', '2022-08-12 13:24:33', 5, 'Great
delivery', '2022-08-12 13:24:33');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(35, 19, 18, 29, 2, 'Delivered', '2022-07-16 13:49:30', 5, 'Nice driver',
'2022-07-16 13:49:30');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(36, 19, 17, 30, 2, 'Delivered', '2022-07-16 19:29:30', 5, 'Nice',
'2022-07-16 19:29:30');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(37, 19, 19, 29.4, 2, 'Delivered', '2022-07-15 16:48:23', 4, 'Poor
attitude of driver', '2022-07-15 16:48:23');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(38, 24, 10, 28, 2, 'Delivered', '2022-06-10 10:22:34', 3, 'Poor
packaging and bad book', '2022-06-10 10:22:34');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

```

```
VALUES(39, 27, 1, 13.5, 1, 'Delivered', '2022-06-16 18:20:23', 5, 'Nice book!',  
'2022-06-16 18:20:23');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(40, 26, 17, 75, 5, 'Delivered', '2022-06-23 19:20:32', 5, 'Will  
recommend!', '2022-06-23 19:20:32');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(41, 25, 11, 15, 1, 'Delivered', '2022-06-14 13:23:45', 3, 'Poor  
condition', '2022-06-14 13:23:45');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(42, 14, 10, 14, 1, 'Delivered', '2022-08-20 17:55:40', 5, 'Nice  
packaging', '2022-08-20 17:55:40');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(43, 25, 3, 13.5, 1, 'Delivered', '2022-06-13 16:32:44', 4, 'Great  
delivery', '2022-06-13 16:32:44');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(44, 6, 11, 30, 2, 'Delivered', '2022-08-10 14:50:22', 5, 'Nice book!',  
'2022-08-10 14:50:22');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(45, 25, 5, 14, 1, 'Delivered', '2022-06-18 19:16:34', 4, 'Nice book, but  
lacks interesting content', '2022-06-18 19:16:34');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(46, 24, 1, 13.5, 1, 'Delivered', '2022-06-12 13:59:23', 5, 'Nice book!',  
'2022-06-12 13:59:23');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(47, 2, 11, 15, 1, 'Delivered', '2022-06-09 19:47:32', 4, 'Packaging abit  
bad', '2022-06-09 19:47:32');
```

```
INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],  
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])
```

```
VALUES(48, 26, 18, 58, 4, 'Delivered', '2022-06-23 12:32:59', 5, 'Great book',  
'2022-06-23 12:32:59');
```

```

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(49, 10, 12, 25.4, 2, 'Delivered', '2022-08-25 07:04:20', 5, 'Nice
courier service!', '2022-08-25 07:04:20');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(50, 29, 26, 74.9, 5, 'Delivered', '2022-08-16 18:23:25', 4, 'Nice
packaging', '2022-08-16 18:23:25');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(51, 35, 7, 20, 1, 'Delivered', '2022-09-12 10:23:22', 5, 'Thanks ',
'2022-09-12 10:23:22');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(52, 15, 12, 25.4, 2, 'Delivered', '2022-08-23 16:49:50', 5, NULL,
'2022-08-23 16:49:50');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(53, 36, 14, 8, 1, 'Delivered', '2022-05-15 18:49:50', 4, NULL,
'2022-05-15 18:49:50');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(54, 32, 22, 13, 1, 'Delivered', '2022-06-03 18:49:23', 4, 'bad service',
'2022-06-03 18:49:23');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(55, 29, 27, 80, 5, 'Delivered', '2022-08-16 18:23:25', 5, 'Great book!',
'2022-08-16 18:23:25');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(56, 14, 12, 12.7, 1, 'Delivered', '2022-08-18 19:04:10', 5, 'Nice',
'2022-08-18 19:04:10');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(57, 34, 25, 16, 1, 'Being Processed', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(58, 26, 10, 14, 1, 'Delivered', '2022-06-29 12:58:32', 4, 'Thanks ',

```

```

'2022-06-29 12:58:32');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(59, 14, 11, 15, 1, 'Delivered', '2022-08-21 09:20:21', 5, 'Great
delivery', '2022-08-21 09:20:21');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(60, 36, 48, 20, 1, 'Delivered', '2022-05-16 10:23:48', 5, 'Nice book',
'2022-05-16 10:23:48');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(61, 30, 28, 65, 5, 'Delivered', '2022-08-27 19:20:25', 5, 'Great
packaging, buy again!', '2022-08-27 19:20:25');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(62, 30, 26, 74.9, 5, 'Delivered', '2022-08-26 18:21:25', 4, 'Great
book!', '2022-08-26 18:21:25');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(63, 16, 13, 26.4, 2, 'Delivered', '2022-08-14 11:54:32', 5, 'Great
book!', '2022-08-14 11:54:32');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(64, 31, 26, 74.9, 5, 'Delivered', '2022-08-15 12:58:32', 5, 'Recommended
by friend! Superb!', '2022-08-15 12:58:32');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(65, 32, 35, 7, 1, 'Delivered', '2022-06-04 19:30:23', 4, 'Nice magazine,
poor packaging!', '2022-06-04 19:30:23');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(66, 33, 33, 7, 1, 'Shipped', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(67, 4, 10, 28, 2, 'Delivered', '2022-08-13 10:23:45', 5, 'Nice book',
'2022-08-13 10:23:45');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

```

```

VALUES(68, 33, 41, 14, 1, 'Shipped', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(69, 31, 28, 65, 5, 'Delivered', '2022-08-14 19:23:53', 3, 'Poor packing
on a such a great book', '2022-08-14 19:23:53');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(70, 13, 11, 30, 2, 'Delivered', '2022-08-27 14:25:47', 5, 'Great
delivery service.', '2022-08-27 14:25:47');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(71, 34, 44, 13, 1, 'Shipped', NULL, NULL, NULL, NULL);

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(72, 7, 11, 30, 2, 'Delivered', '2022-08-04 10:20:43', 5, 'Nice service!
Definitely will order again', '2022-08-04 10:20:43');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(73, 35, 46, 14.5, 1, 'Delivered', '2022-09-13 14:23:59', 4, 'poor
attitude of courier driver, nice magazine tho', '2022-09-13 14:23:59');

INSERT INTO ItemsInOrder([item-ID], [order-ID], [inventory-ID], [total-price],
[item-qty], [status], [delivery-date], [rating], [comment], [date-time])

VALUES(74, 12, 10, 14, 1, 'Delivered', '2022-08-29 11:23:50', 5, 'Received as
per shown on website', '2022-08-29 11:23:50');

```

Screenshot Of Tables

Book Table

	publication-ID	title
1	1	Harry Porter: The Boy that Lifts
2	14	Harry Porter Finale
3	4	Harry Porter: One in the Chamber
4	5	Bridge to Terabithia
5	3	The Nightingale
6	7	The Catcher in the Rye
7	8	Oxford Dictionary
8	10	Art of War
9	15	Stanford Dictionary

Magazine Table

	publication-ID	issue	title
1	2	Vol. 1 , No. 1	Global Sciences: Chemistry
2	6	Vol. 1 , No. 2	Global Sciences: Physics
3	9	Vol. 1 , No. 3	Global Sciences: Biology
4	11	Vol. 2 , No. 1	Global Sciences: Astronomy
5	12	No. 1	Lifestyle
6	13	No. 2	Lifestyle

Publication Table

	publication-ID	publisher	year of publication
1	1	Nanyang Publisher Company	1998
2	10	Penguin Publishers	2000
3	11	Temasek Publisher Company	2004
4	12	Penguin Publishers	2010
5	13	Penguin Publishers	2012
6	14	Nanyang Publisher Company	2013
7	15	Penguin Publishers	1990
8	2	Temasek Publisher Company	2001
9	3	Nanyang Publisher Company	2003
10	4	Nanyang Publisher Company	2000
11	5	Nanyang Publisher Company	2007
12	6	Temasek Publisher Company	2002
13	7	Nanyang Publisher Company	1998
14	8	Penguin Publishers	1990
15	9	Temasek Publisher Company	2003

Employee Table

	employee-ID	name	monthly-salary
1	101	John	2000
2	102	Tom	1650
3	103	Ben	1500
4	104	Sam	1500
5	105	Mike	1800

Customer Table

	customerID	name
1	1001	Alan
2	1002	Beck
3	1003	Charlie
4	1004	Don
5	1005	Eliza
6	1006	Fred
7	1007	Greg
8	1008	Hector
9	1009	Ivan

Bookstore Table

	company-ID
1	1
2	10
3	11
4	12
5	13
6	14
7	15
8	16
9	17
10	18
11	19
12	2
13	20
14	3
15	4
16	5
17	6
18	7
19	8
20	9

BookstoreComplaint Table

	complaint-ID	company-ID
1	11	2
2	12	3
3	13	4
4	14	2
5	15	11
6	16	12
7	17	5
8	18	6
9	19	7
10	20	10

OrderComplaint Table

	complaint-ID	order-ID
1	1	2
2	2	4
3	3	5
4	4	7
5	5	1
6	6	8
7	7	9
8	8	10
9	9	6
10	10	3
11	17	11
12	16	12
13	15	13
14	19	14
15	12	16
16	11	17
17	13	18
18	20	19
19	18	20

Complaints Table

	complaint-ID	employee-ID	customer-ID	message	status
1	1	101	1001	I received a damaged book	Pending
2	10	102	1003	I never got the book I ordered weeks ago	Addressed
3	11	103	1002	The contents of the book did not match the descr...	Addressed
4	12	104	1007	The website advertised the book as available but...	Pending
5	13	105	1001	I got charged more than what was advertised in ...	Addressed
6	14	101	1001	Misleading description given for book	Addressed
7	15	102	1008	Book has the wrong description information displa...	Addressed
8	16	104	1003	Lack of variety in book choices	Addressed
9	17	105	1001	High price, but low quality books	Pending
10	18	103	1002	Lack of refund option	Pending
11	19	101	1005	Confusing UI, accidentally bought 2 copies of the s...	Addressed
12	2	102	1002	I received the wrong book	Addressed
13	20	102	1006	Limited book choice	Pending
14	3	103	1003	I did not receive my order at all	Pending
15	4	101	1004	I have a problem with my payment process	Pending
16	5	102	1005	I am not able to place orders	Addressed
17	6	104	1009	I ordered a book weeks ago and its still not here	Pending
18	7	103	1001	The book received had missing pages	Pending
19	8	105	1006	I ordered hard cover but received a paperback	Addressed
20	9	101	1005	My order was cancelled without explanation	Pending

ComplaintHistory Table

	complaint-ID	status	date
1	1	Pending	2022-08-01 00:00:00.000
2	10	Addressed	2022-08-07 00:00:00.000
3	10	Being Handled	2022-08-06 00:00:00.000
4	10	Pending	2022-08-05 00:00:00.000
5	11	Addressed	2022-07-17 00:00:00.000
6	11	Being Handled	2022-07-15 00:00:00.000
7	11	Pending	2022-07-14 00:00:00.000
8	12	Pending	2022-08-13 00:00:00.000
9	13	Addressed	2022-07-05 00:00:00.000
10	13	Being Handled	2022-07-03 00:00:00.000
11	13	Pending	2022-07-02 00:00:00.000
12	14	Addressed	2022-08-26 00:00:00.000
13	14	Being Handled	2022-08-22 00:00:00.000
14	14	Pending	2022-08-21 00:00:00.000
15	15	Addressed	2022-08-28 00:00:00.000
16	15	Being Handled	2022-08-27 00:00:00.000
17	15	Pending	2022-08-26 00:00:00.000
18	16	Addressed	2022-09-01 00:00:00.000
19	16	Being Handled	2022-08-29 00:00:00.000
20	16	Pending	2022-08-28 00:00:00.000
21	17	Being Handled	2022-08-26 00:00:00.000
22	17	Pending	2022-08-25 00:00:00.000
23	18	Pending	2022-07-19 00:00:00.000
24	19	Addressed	2022-08-19 00:00:00.000
25	19	Being Handled	2022-08-17 00:00:00.000
26	19	Pending	2022-08-16 00:00:00.000
27	2	Addressed	2022-08-07 00:00:00.000
28	2	Being Handled	2022-08-03 00:00:00.000
29	2	Pending	2022-08-02 00:00:00.000
30	20	Being Handled	2022-07-11 00:00:00.000
31	20	Pending	2022-07-10 00:00:00.000
32	3	Being Handled	2022-08-05 00:00:00.000
33	3	Pending	2022-08-04 00:00:00.000
34	4	Pending	2022-07-28 00:00:00.000
35	5	Addressed	2022-07-28 00:00:00.000
36	5	Being Handled	2022-07-25 00:00:00.000
37	5	Pending	2022-07-24 00:00:00.000
38	6	Pending	2022-08-11 00:00:00.000
39	7	Being Handled	2022-08-13 00:00:00.000
40	7	Pending	2022-08-12 00:00:00.000
41	8	Addressed	2022-08-23 00:00:00.000
42	8	Being Handled	2022-08-22 00:00:00.000
43	8	Pending	2022-08-21 00:00:00.000
44	9	Pending	2022-08-03 00:00:00.000

Inventory Table

	inventory-ID	selling-price	qty-in-stock	publication-ID	company-ID
1	1	13.5	23	14	1
2	10	14	6	1	1
3	11	15	7	1	19
4	12	12.7	1	1	9
5	13	13.2	2	1	20
6	14	8	17	8	2
7	15	7	18	8	13
8	16	8	20	8	14
9	17	15	30	3	16
10	18	14.5	50	3	15
11	19	14.7	20	3	5
12	2	23.5	2	14	2
13	20	12	35	5	6
14	21	11.1	55	5	10
15	22	13	24	5	12
16	23	18	47	7	11
17	24	17	53	7	3
18	25	16	93	7	7
19	26	14.98	75	10	15
20	27	16	45	10	14
21	28	13	15	10	11
22	29	7.9	69	12	4
23	3	13.5	10	14	3
24	30	7.5	36	13	5
25	31	15	50	9	12
26	32	8	57	12	9
27	33	7	97	13	10
28	34	14	39	9	13
29	35	7	35	12	8
30	36	6.5	40	13	6
31	37	13	30	11	19
32	38	12	38	11	17
33	39	13	45	11	18
34	4	13	11	14	4
35	40	14	48	2	16
36	41	14	30	2	20
37	42	14.5	30	2	15
38	43	13.5	20	6	4
39	44	13	25	6	14
40	45	14	37	6	7
41	46	14.5	40	9	2
42	47	21	27	15	7
43	48	20	25	15	10
44	49	19	40	15	15
45	5	14	30	14	7
46	6	19	26	14	8
47	7	20	3	4	1
48	8	22	14	4	18
49	9	21	16	4	17

ItemsInOrder Table

	item-ID	order-ID	inventory-ID	total-price	item-qty	status	delivery-date	rating	comment	date-time
1	1	17	10	28	2	Delivered	2022-07-16 19:33:23.000	3	Packaging not so good	2022-07-16 19:33:23.000
2	10	10	5	42	3	Delivered	2022-08-25 16:15:01.000	5	Nice delivery service!	2022-08-25 16:15:01.000
3	11	9	17	150	10	Delivered	2022-08-20 11:13:20.000	5	Nice book!	2022-08-20 11:13:20.000
4	12	21	13	13.2	1	Being Processed	NULL	NULL	NULL	NULL
5	13	2	18	29	2	Delivered	2022-08-06 00:15:23.000	5	Great book that I read	2022-08-06 00:15:23.000
6	14	28	38	180	15	Delivered	2022-08-13 16:28:32.000	4	Poor packaging but nice driver, keeps apologizing	2022-08-13 16:28:32.000
7	15	1	17	30	2	Delivered	2022-08-02 18:22:30.000	5	Nice book!	2022-08-02 18:22:30.000
8	16	28	37	195	15	Delivered	2022-08-15 17:23:54.000	5	NULL	2022-08-15 17:23:54.000
9	17	3	20	240	20	Delivered	2022-08-08 11:23:59.000	5	NULL	2022-08-08 11:23:59.000
10	18	22	10	14	1	Shipped	NULL	NULL	NULL	NULL
11	19	22	12	12.7	1	Shipped	NULL	NULL	NULL	NULL
12	2	1	5	28	2	Delivered	2022-08-01 12:58:00.000	5	Nice driver	2022-08-01 12:58:00.000
13	20	3	20	240	20	Delivered	2022-08-11 01:32:33.000	5	Great book!	2022-08-11 01:32:33.000
14	21	22	6	57	3	Being Processed	NULL	NULL	NULL	NULL
15	22	9	3	27	2	Delivered	2022-08-20 08:33:23.000	5	Nice driver!	2022-08-20 08:33:23.000
16	23	4	2	70.5	3	Delivered	2022-08-07 01:23:20.000	5	Fast Delivery!	2022-08-07 01:23:20.000
17	24	18	4	26	2	Delivered	2022-07-07 14:23:22.000	3	Poor packaging!	2022-07-07 14:23:22.000
18	25	5	17	30	2	Delivered	2022-08-09 19:19:59.000	5	Nice book!	2022-08-09 19:19:59.000
19	26	11	5	28	2	Delivered	2022-08-29 10:32:13.000	5	Thanks for the book!	2022-08-29 10:32:13.000
20	27	11	20	24	2	Delivered	2022-08-30 01:48:40.000	5	Great book, will order again!	2022-08-30 01:48:40.000
21	28	8	18	43.5	3	Delivered	2022-08-18 15:49:50.000	5	Nice book!	2022-08-18 15:49:50.000
22	29	21	4	39	3	Delivered	2022-07-14 13:58:29.000	2	poor packaging and poor attitude of driver	2022-07-14 13:58:29.000
23	3	5	6	38	2	Delivered	2022-08-11 13:58:22.000	5	Fast Delivery!	2022-08-11 13:58:22.000
24	30	18	6	38	2	Delivered	2022-07-09 13:29:30.000	3	Poor driver attitude, slow delivery, wont buy again	2022-07-09 13:29:30.000
25	31	12	17	30	2	Delivered	2022-08-31 12:43:09.000	5	Great delivery	2022-08-31 12:43:09.000
26	32	10	3	40.5	3	Delivered	2022-08-22 19:59:02.000	5	Nice packaging	2022-08-22 19:59:02.000
27	33	20	19	29.4	2	Delivered	2022-07-23 16:58:40.000	4	Not so great book but bought for friends	2022-07-23 16:58:40.000
28	34	6	20	180	15	Delivered	2022-08-12 13:24:33.000	5	Great delivery	2022-08-12 13:24:33.000
29	35	19	18	29	2	Delivered	2022-07-16 13:49:30.000	5	Nice driver	2022-07-16 13:49:30.000
30	36	19	17	30	2	Delivered	2022-07-16 19:29:30.000	5	Nice	2022-07-16 19:29:30.000
31	37	19	19	29.4	2	Delivered	2022-07-15 16:48:23.000	4	Poor attitude of driver	2022-07-15 16:48:23.000
32	38	24	10	28	2	Delivered	2022-06-10 10:22:34.000	3	Poor packaging and bad book	2022-06-10 10:22:34.000
33	39	27	1	13.5	1	Delivered	2022-06-16 18:20:23.000	5	Nice book!	2022-06-16 18:20:23.000
34	4	17	12	12.7	1	Delivered	2022-07-15 18:32:25.000	4	Rude driver but good item	2022-07-15 18:32:25.000
35	40	26	17	75	5	Delivered	2022-06-23 19:20:32.000	5	Will recommend!	2022-06-23 19:20:32.000
36	41	25	11	15	1	Delivered	2022-06-14 13:23:45.000	3	Poor condition	2022-06-14 13:23:45.000
37	42	14	10	14	1	Delivered	2022-08-20 17:55:40.000	5	Nice packaging	2022-08-20 17:55:40.000
38	43	25	3	13.5	1	Delivered	2022-06-13 16:32:44.000	4	Great delivery	2022-06-13 16:32:44.000

39	44	6	11	30	2	Delivered	2022-08-10 14:50:22.000	5	Nice book!	2022-08-10 14:50:22.000
40	45	25	5	14	1	Delivered	2022-06-18 19:16:34.000	4	Nice book, but lacks interesting content	2022-06-18 19:16:34.000
41	46	24	1	13.5	1	Delivered	2022-06-12 13:59:23.000	5	Nice book!	2022-06-12 13:59:23.000
42	47	2	11	15	1	Delivered	2022-06-09 19:47:32.000	4	Packaging abit bad	2022-06-09 19:47:32.000
43	48	26	18	58	4	Delivered	2022-06-23 12:32:59.000	5	Great book	2022-06-23 12:32:59.000
44	49	10	12	25.4	2	Delivered	2022-08-25 07:04:20.000	5	Nice courier service!	2022-08-25 07:04:20.000
45	5	1	4	26	2	Delivered	2022-08-04 10:13:54.000	5	Nice book!	2022-08-04 10:13:54.000
46	50	29	26	74.9	5	Delivered	2022-08-16 18:23:25.000	4	Nice packaging	2022-08-16 18:23:25.000
47	51	35	7	20	1	Delivered	2022-09-12 10:23:22.000	5	Thanks	2022-09-12 10:23:22.000
48	52	15	12	25.4	2	Delivered	2022-08-23 16:49:50.000	5	NULL	2022-08-23 16:49:50.000
49	53	36	14	8	1	Delivered	2022-05-15 18:49:50.000	4	NULL	2022-05-15 18:49:50.000
50	54	32	22	13	1	Delivered	2022-06-03 18:49:23.000	4	bad service	2022-06-03 18:49:23.000
51	55	29	27	80	5	Delivered	2022-08-16 18:23:25.000	5	Great book!	2022-08-16 18:23:25.000
52	56	14	12	12.7	1	Delivered	2022-08-18 19:04:10.000	5	Nice	2022-08-18 19:04:10.000
53	57	34	25	16	1	Being Processed	NULL	NULL	NULL	NULL
54	58	26	10	14	1	Delivered	2022-06-29 12:58:32.000	4	Thanks	2022-06-29 12:58:32.000
55	59	14	11	15	1	Delivered	2022-08-21 09:20:21.000	5	Great delivery	2022-08-21 09:20:21.000
56	6	3	5	42	3	Delivered	2022-08-10 18:43:22.000	5	Bought for my friends	2022-08-19 18:43:22.000
57	60	36	48	20	1	Delivered	2022-05-16 10:23:48.000	5	Nice book	2022-05-16 10:23:48.000
58	61	30	28	65	5	Delivered	2022-08-27 19:20:25.000	5	Great packaging, buy again!	2022-08-27 19:20:25.000
59	62	30	26	74.9	5	Delivered	2022-08-26 18:21:25.000	4	Great book!	2022-08-26 18:21:25.000
60	63	16	13	26.4	2	Delivered	2022-08-14 11:54:32.000	5	Great book!	2022-08-14 11:54:32.000
61	64	31	26	74.9	5	Delivered	2022-08-15 12:58:32.000	5	Recommended by friend! Superb!	2022-08-15 12:58:32.000
62	65	32	35	7	1	Delivered	2022-06-04 19:30:23.000	4	Nice magazine, poor packaging!	2022-06-04 19:30:23.000
63	66	33	33	7	1	Shipped	NULL	NULL	NULL	NULL
64	67	4	10	28	2	Delivered	2022-08-13 10:23:45.000	5	Nice book	2022-08-13 10:23:45.000
65	68	33	41	14	1	Shipped	NULL	NULL	NULL	NULL
66	69	31	28	65	5	Delivered	2022-08-14 19:23:53.000	3	Poor packing on a such a great book	2022-08-14 19:23:53.000
67	7	18	12	25.4	2	Being Processed	NULL	NULL	NULL	NULL
68	70	13	11	30	2	Delivered	2022-08-27 14:25:47.000	5	Great delivery service.	2022-08-27 14:25:47.000
69	71	34	44	13	1	Shipped	NULL	NULL	NULL	NULL
70	72	7	11	30	2	Delivered	2022-08-04 10:20:43.000	5	Nice service! Definitely will order again	2022-08-04 10:20:43.000
71	73	35	46	14.5	1	Delivered	2022-09-13 14:23:59.000	4	poor attitude of courier driver, nice magazine tho	2022-09-13 14:23:59.000
72	74	12	10	14	1	Delivered	2022-08-29 11:23:50.000	5	Received as per shown on website	2022-08-29 11:23:50.000
73	8	8	4	26	2	Delivered	2022-08-16 19:15:32.000	5	Gift for friend!	2022-08-16 19:15:32.000
74	9	21	13	26.4	2	Delivered	2022-07-12 16:48:23.000	3	Bad packaging, slow delivery	2022-07-12 16:48:23.000

Orders Table

	order-ID	shipping-addr	shipping-cost	timestamp	customer-ID
1	1	8, Nanyang Drive, 637719	3	2022-07-23 20:34:10.000	1005
2	10	19 Pepys Rd, Singapore 118450	3.5	2022-08-20 15:38:12.000	1006
3	11	8 Bukit Batok Street 41, Singapore 657993	4	2022-08-24 23:15:29.000	1001
4	12	645 Jurong West Street 61, Singapore 640645	3.5	2022-08-27 19:29:12.000	1003
5	13	95 Jln Kampong Chantek, Singapore 588648	4	2022-08-25 00:29:32.000	1008
6	14	8, Nanyang Drive, 637719	3	2022-08-15 20:38:23.000	1005
7	15	8 Bukit Batok Street 41, Singapore 657993	4	2022-08-20 10:32:12.000	1001
8	16	367 Woodlands Ave 5, Singapore 730367	4	2022-08-12 00:29:23.000	1007
9	17	285B Toh Guan Rd, Singapore 602285	4	2022-07-13 17:12:39.000	1002
10	18	8 Bukit Batok Street 41, Singapore 657993	4	2022-07-01 16:32:10.000	1001
11	19	19 Pepys Rd, Singapore 118450	3.5	2022-07-09 19:58:23.000	1006
12	2	8 Bukit Batok Street 41, Singapore 657993	4	2022-07-31 12:34:10.000	1001
13	20	285B Toh Guan Rd, Singapore 602285	4	2022-07-18 16:45:32.000	1002
14	21	19 Pepys Rd, Singapore 118450	3.5	2022-07-10 17:58:32.000	1006
15	22	285B Toh Guan Rd, Singapore 602285	4	2022-07-20 23:25:49.000	1002
16	23	8 Bukit Batok Street 41, Singapore 657993	4	2022-06-02 02:58:32.000	1001
17	24	645 Jurong West Street 61, Singapore 640645	3.5	2022-06-07 12:48:59.000	1003
18	25	8 Bukit Batok Street 41, Singapore 657993	4	2022-06-10 11:59:32.000	1001
19	26	8, Nanyang Drive, 637719	3	2022-06-21 14:23:39.000	1005
20	27	285B Toh Guan Rd, Singapore 602285	4	2022-06-13 16:29:30.000	1002
21	28	42 Eng Neo Ave, Singapore 289533	4	2022-08-10 18:23:49.000	1004
22	29	95 Jln Kampong Chantek, Singapore 588648	4	2022-08-12 17:23:49.000	1008
23	3	645 Jurong West Street 61, Singapore 640645	3.5	2022-08-04 03:31:12.000	1003
24	30	645 Jurong West Street 61, Singapore 640645	3.5	2022-08-22 20:59:49.000	1003
25	31	645 Jurong West Street 61, Singapore 640645	3.5	2022-08-11 23:59:49.000	1003
26	32	8, Nanyang Drive, 637719	3	2022-06-01 08:29:59.000	1005
27	33	19 Pepys Rd, Singapore 118450	3.5	2022-09-15 22:19:59.000	1006
28	34	8, Nanyang Drive, 637719	3	2022-09-17 16:23:22.000	1005
29	35	367 Woodlands Ave 5, Singapore 730367	4	2022-09-08 20:25:23.000	1007
30	36	125 Whitley Rd, Singapore 297820	4.5	2022-05-13 23:58:23.000	1009
31	4	285B Toh Guan Rd, Singapore 602285	4	2022-08-01 11:32:12.000	1002
32	5	645 Jurong West Street 61, Singapore 640645	3.5	2022-08-03 09:23:58.000	1003
33	6	8, Nanyang Drive, 637719	3	2022-08-02 11:32:12.000	1005
34	7	42 Eng Neo Ave, Singapore 289533	4	2022-07-27 11:32:12.000	1004
35	8	125 Whitley Rd, Singapore 297820	4.5	2022-08-10 11:32:12.000	1009
36	9	8 Bukit Batok Street 41, Singapore 657993	4	2022-08-11 13:32:23.000	1001

PriceRecords Table

	time-updated	inventory-ID	price
1	2021-03-30 12:15:00.000	9	19.5
2	2021-03-31 12:00:00.000	7	20
3	2021-04-01 13:00:00.000	8	19.5
4	2021-09-10 12:00:00.000	2	23.5
5	2021-11-09 16:00:21.000	11	16.5
6	2021-12-09 00:00:00.000	10	16
7	2022-01-09 12:44:13.000	10	16.5
8	2022-01-09 15:13:20.000	12	17
9	2022-01-10 11:31:14.000	13	17
10	2022-02-26 14:14:15.000	14	11
11	2022-08-01 12:23:01.000	1	13.5
12	2022-08-11 13:30:25.000	3	13.5
13	2022-08-18 18:15:00.000	4	13.5
14	2022-08-27 19:30:00.000	5	14
15	2022-10-09 00:00:00.000	6	19
16	2022-11-23 13:11:11.000	15	12
17	2022-12-13 17:46:01.000	16	11.5

Queries

-- : Comments to explain the code.

1. Find the average price of “Harry Porter Finale” on Ahamazon from 1 August 2022 to 31 August 2022.

-- Get the average price of the price obtained.

```
SELECT ROUND(AVG(price),2) AS 'Average Price of Harry Porter Finale'
FROM Inventory AS I, Book AS B, PriceRecords AS R
```

-- Obtain title from Book, inventory-ID from Inventory to compare with PriceRecords' inventory-ID then get the price of the book in the month of August.

```
WHERE B.title = 'Harry Porter Finale'
AND I."publication-ID" = B."publication-ID"
AND R."inventory-ID" = I."inventory-ID"
AND R."time-updated" >= Convert(datetime, '2022-08-01' )
AND R."time-updated" <= Convert(datetime, '2022-08-31' );
```

Table Information:

```
SELECT B.title, R.[price], R.[time-updated]
FROM Inventory AS I, Book as B, PriceRecords as R
WHERE B.title = 'Harry Porter Finale' AND I."publication-ID" = B."publication-ID" AND
R."inventory-ID" = I."inventory-ID";
```

	title	price	time-updated
1	Harry Porter Finale	23.5	2021-09-10 12:00:00.000
2	Harry Porter Finale	13.5	2022-08-01 12:23:01.000
3	Harry Porter Finale	13.5	2022-08-11 13:30:25.000
4	Harry Porter Finale	13.5	2022-08-18 18:15:00.000
5	Harry Porter Finale	14	2022-08-27 19:30:00.000
6	Harry Porter Finale	19	2022-10-09 00:00:00.000

Query Result:

	Average Price of Harry Porter Finale
1	13.63

2. Find publications that received at least 10 ratings of “5” in August 2022, and rank them by their average ratings.

```
WITH MaxRatingCount AS (  
-- create a view with publications (as publication-IDs) who got ratings of  
"5", along with the number of "5" ratings that they got.  
  
    SELECT "publication-ID", COUNT(rating) AS maxRatingCnt  
    FROM ItemsInOrder AS IIO, Inventory AS I  
    WHERE rating = 5  
    AND "date-time" >= Convert(datetime, '2022-08-01')  
    AND "date-time" <= Convert(datetime, '2022-08-31')  
    AND IIO."inventory-ID" = I."inventory-ID"  
    GROUP BY "publication-ID"  
)  
  
SELECT  
    CASE WHEN M.[publication-ID] IS NULL THEN B.title  
        ELSE CONCAT(M.title, ', ', M.issue)  
    END AS title,  
    ROUND(AVG(rating), 2) AS avgRating  
FROM ItemsInOrder AS IO, Inventory AS I, MaxRatingCount AS MC, Publication as P  
LEFT JOIN Book B ON P.[publication-ID] = B.[publication-ID]  
LEFT JOIN Magazine M ON P.[publication-ID] = M.[publication-ID]  
WHERE MC."publication-ID" = I."publication-ID" AND I."publication-ID" =  
P."publication-ID"  
AND I."inventory-ID" = IO."inventory-ID"  
AND MC.maxRatingCnt >= 10 -- Only select those with more than 10 ratings of "5"  
GROUP BY  
    CASE WHEN M.[publication-ID] IS NULL THEN B.title  
        ELSE CONCAT(M.title, ', ', M.issue)  
    END  
ORDER BY AVG(rating) DESC; -- Rank them by their average ratings
```

Table Information:

```
WITH MaxRatingCount AS (  
    SELECT "publication-ID", COUNT(rating) AS maxRatingCnt  
    FROM ItemsInOrder AS IIO, Inventory AS I  
    WHERE rating = 5  
    AND "date-time" >= Convert(datetime, '2022-08-01')  
    AND "date-time" <= Convert(datetime, '2022-08-31')  
    AND IIO."inventory-ID" = I."inventory-ID"  
    GROUP BY "publication-ID"  
)  
SELECT  
    CASE WHEN M.[publication-ID] IS NULL THEN B.title  
    ELSE CONCAT(M.title, ', ' , M.issue)  
    END AS title,  
    ROUND(AVG(rating), 2) as avgRating, MC.maxRatingCnt  
FROM ItemsInOrder AS IO, Inventory AS I, MaxRatingCount AS MC, Publication as P  
LEFT JOIN Book B ON P.[publication-ID] = B.[publication-ID]  
LEFT JOIN Magazine M ON P.[publication-ID] = M.[publication-ID]  
WHERE MC."publication-ID" = I."publication-ID" AND I."publication-ID" = P."publication-ID"  
AND I."inventory-ID" = IO."inventory-ID"  
GROUP BY CASE WHEN M.[publication-ID] IS NULL THEN B.title  
    ELSE CONCAT(M.title, ', ' , M.issue)  
    END, MC.maxRatingCnt;
```

	title	avgRating	maxRatingCnt
1	Global Sciences: Astronomy, Vol. 2, No. 1	4.5	1
2	Art of War	4.33	3
3	Bridge to Terabithia	4.8	4
4	The Nightingale	4.83	5
5	Harry Potter Finale	4.47	10
6	Harry Potter: The Boy that Lifts	4.39	11

Query Result:

	title	avgRating
1	Harry Potter Finale	4.47
2	Harry Potter: The Boy that Lifts	4.39

3. For all publications purchased in June 2022 that have been delivered, find the average time from the ordering date to the delivery date.

```
SELECT AVG(CAST(DATEDIFF(day, O.timestamp, IO."delivery-date") AS DECIMAL(2)) ) as
'Average Time (in Days)' -- Get the difference in date between ordering date
and delivery date, then take the average of them.

FROM Orders as O, ItemsInOrder as IO, Inventory as I, Publication as P

WHERE O."order-ID" = IO."order-ID"

AND IO.[inventory-ID] = I.[inventory-ID]

AND I.[publication-ID] = P.[publication-ID]

AND IO.status = 'Delivered'

AND O.timestamp >= Convert(datetime, '2022-06-01' )

AND O.timestamp <= Convert(datetime, '2022-06-30' ); -- Only take those where
status in ItemsInOrder is "Delivered" and orders that have been
placed(purchased) in June 2022.
```

Table Information:

```
SELECT

    CASE WHEN M.[publication-ID] IS NULL THEN B.title

        ELSE CONCAT(M.title, ', ' , M.issue)

    END AS title,

IO.[item-ID], O.timestamp, IO.[delivery-date], DATEDIFF(day, O.timestamp,
IO.[delivery-date]) AS dayDiff

FROM Orders as O, ItemsInOrder as IO, Inventory as I, Publication as P

LEFT JOIN Book B ON P.[publication-ID] = B.[publication-ID]

LEFT JOIN Magazine M ON P.[publication-ID] = M.[publication-ID]

WHERE O."order-ID" = IO."order-ID" AND IO.[inventory-ID] = I.[inventory-ID] AND
I.[publication-ID] = P.[publication-ID] AND IO.status = 'Delivered'

AND O.timestamp >= Convert(datetime, '2022-06-01' )

AND O.timestamp <= Convert(datetime, '2022-06-30' ) ;
```

	title	item-ID	timestamp	delivery-date	dayDiff
1	Harry Porter: The Boy that Lifts	38	2022-06-07 12:48:59.000	2022-06-10 10:22:34.000	3
2	Harry Porter Finale	39	2022-06-13 16:29:30.000	2022-06-16 18:20:23.000	3
3	The Nightingale	40	2022-06-21 14:23:39.000	2022-06-23 19:20:32.000	2
4	Harry Porter: The Boy that Lifts	41	2022-06-10 11:59:32.000	2022-06-14 13:23:45.000	4
5	Harry Porter Finale	43	2022-06-10 11:59:32.000	2022-06-13 16:32:44.000	3
6	Harry Porter Finale	45	2022-06-10 11:59:32.000	2022-06-18 19:16:34.000	8
7	Harry Porter Finale	46	2022-06-07 12:48:59.000	2022-06-12 13:59:23.000	5
8	The Nightingale	48	2022-06-21 14:23:39.000	2022-06-23 12:32:59.000	2
9	Bridge to Terabithia	54	2022-06-01 08:29:59.000	2022-06-03 18:49:23.000	2
10	Harry Porter: The Boy that Lifts	58	2022-06-21 14:23:39.000	2022-06-29 12:58:32.000	8
11	Lifestyle, No. 1	65	2022-06-01 08:29:59.000	2022-06-04 19:30:23.000	3

Query Result:

	Average Time (in Days)
1	3.909090

4. Let us define the “latency” of an employee by the average that he/she takes to process a complaint. Find the employee with the smallest latency.

WITH

```
-- Create a view EmpLatency that stores the average latency for the
processing of complaints for each employee that has addressed >= 1
complaint(s)
    EmpLatency AS (
        SELECT
            E.[employee-ID],
            E.name,
            -- Find average latency based on the difference in dates between 'Being
Handled' and 'Addressed', i.e. time taken for an employee to process a
complaint
            AVG(CAST(DATEDIFF(day, H1.date, H2.date) AS DECIMAL(2))) AS avgLatency
        FROM Complaints AS C, ComplaintHistory AS H1, ComplaintHistory AS H2, Employee AS
E
        -- If a record in ComplaintHistory has the status as 'Addressed', it will
also have another 2 records with the same complaint-ID that has the statuses
'Being Handled' and 'Pending'
        WHERE H1.status = 'Being Handled' AND H2.status = 'Addressed'
        AND H1.[complaint-ID] = H2.[complaint-ID]
        AND C.[complaint-ID] = H1.[complaint-ID]
        AND E.[employee-ID] = C.[employee-ID]
        GROUP BY E.[employee-ID], E.name
    )
-- Find the employee with the smallest latency using EmpLatency
SELECT name
FROM EmpLatency
WHERE avgLatency = (SELECT MIN(avgLatency) FROM EmpLatency);
```

Table Information:

```
WITH EmpLatency AS (  
    SELECT E.[employee-ID], E.name, DATEDIFF(day, H1.date, H2.date) AS latency  
    FROM Complaints AS C, ComplaintHistory AS H1, ComplaintHistory AS H2, Employee AS E  
    WHERE H1.status = 'Being Handled' AND H2.status = 'Addressed'  
    AND H1.[complaint-ID] = H2.[complaint-ID]  
    AND C.[complaint-ID] = H1.[complaint-ID]  
    AND E.[employee-ID] = C.[employee-ID]  
)  
SELECT name, AVG(CAST(latency AS DECIMAL(2))) as avgLatency  
FROM EmpLatency  
GROUP BY name;
```

	name	avgLatency
1	Ben	2.000000
2	John	3.000000
3	Mike	1.500000
4	Sam	3.000000
5	Tom	2.250000

Query Result:

	name
1	Mike

5. Produce a list that contains (i) all publications published by Nanyang Publisher Company, and (ii) for each of them, the number of bookstores on Ahamazon that sell them.

```
SELECT

    -- If it is a book and not a magazine (M.publication-ID IS NULL), then we
    use the book title, else we use the magazine title concatenated with the
    issue number.

    CASE WHEN M.[publication-ID] IS NULL THEN B.title

        ELSE CONCAT(M.title, ', ' , M.issue)

    END AS title,

    -- Find corresponding number of bookstores

    COUNT("company-ID") AS 'Number of Bookstores'

FROM Inventory AS I, Publication AS P

LEFT JOIN Book B ON P.[publication-ID] = B.[publication-ID]

LEFT JOIN Magazine M ON P.[publication-ID] = M.[publication-ID]

WHERE P.publisher = 'Nanyang Publisher Company' AND P.[publication-ID] =
I.[publication-ID]

GROUP BY

    CASE WHEN M.[publication-ID] IS NULL THEN B.title

        ELSE CONCAT(M.title, ', ' , M.issue)

    END;
```

Table Information:

```
SELECT CASE WHEN M.[publication-ID] IS NULL THEN B.title
          ELSE CONCAT(M.title, ', ' , M.issue)
          END AS title, COUNT("company-ID") AS 'Number of Bookstores', P.publisher
FROM Inventory AS I,Publication AS P
LEFT JOIN Book B ON P.[publication-ID] = B.[publication-ID]
LEFT JOIN Magazine M ON P.[publication-ID] = M.[publication-ID]
WHERE P.[publication-ID] = I.[publication-ID]
GROUP BY CASE WHEN M.[publication-ID] IS NULL THEN B.title
          ELSE CONCAT(M.title, ', ' , M.issue)
          END, P.publisher;
```

	title	Number of Bookstores	publisher
1	Bridge to Terabithia	3	Nanyang Publisher Company
2	Harry Porter Finale	6	Nanyang Publisher Company
3	Harry Porter: One in the Chamber	3	Nanyang Publisher Company
4	Harry Porter: The Boy that Lifts	4	Nanyang Publisher Company
5	The Catcher in the Rye	3	Nanyang Publisher Company
6	The Nightingale	3	Nanyang Publisher Company
7	Art of War	3	Penguin Publishers
8	Lifestyle, No. 1	3	Penguin Publishers
9	Lifestyle, No. 2	3	Penguin Publishers
10	Oxford Dictionary	3	Penguin Publishers
11	Stanford Dictionary	3	Penguin Publishers
12	Global Sciences: Astronomy, Vol. 2 , No. 1	3	Temasek Publisher Company
13	Global Sciences: Biology, Vol. 1 , No. 3	3	Temasek Publisher Company
14	Global Sciences: Chemistry, Vol. 1 , No. 1	3	Temasek Publisher Company
15	Global Sciences: Physics, Vol. 1 , No. 2	3	Temasek Publisher Company

Query Result:

	title	Number of Bookstores
1	Bridge to Terabithia	3
2	Harry Porter Finale	6
3	Harry Porter: One in the Chamber	3
4	Harry Porter: The Boy that Lifts	4
5	The Catcher in the Rye	3
6	The Nightingale	3

6. Find bookstores that made the most revenue in August 2022.

-- Create a view that gives the orders made in August 2022, along with the customer-ID, inventory-ID, total price of the item ordered as well as the item quantity

```
WITH AugustOrders AS (  
    SELECT o.[order-ID], o.[customer-ID], io.[inventory-ID], io.[total-price],  
    io.[item-qty]  
    FROM Orders AS o  
    JOIN ItemsInOrder AS io ON o.[order-ID] = io.[order-ID]  
    WHERE o.timestamp >= '2022-08-01' AND o.timestamp < '2022-09-01'  
) ,
```

-- Create a view that gives sum of all orders ordered from each bookstore as revenue

```
RevenuePerStore AS (  
    SELECT b.[company-ID], SUM(ao.[total-price]) AS revenue  
    FROM Bookstore b  
    JOIN Inventory AS i ON b.[company-ID] = i.[company-ID]  
    JOIN AugustOrders AS ao ON i.[inventory-ID] = ao.[inventory-ID]  
    GROUP BY b.[company-ID]  
)
```

-- Select the company-ID(Bookstore) that has the most revenue

```
SELECT [company-ID], revenue  
FROM RevenuePerStore  
WHERE revenue = (SELECT MAX(revenue) FROM RevenuePerStore);
```

Table Information:

```
WITH AugustOrders AS (  
    SELECT o.[order-ID], o.[customer-ID], io.[inventory-ID], io.[total-price], io.[item-qty]  
    FROM Orders AS o  
    JOIN ItemsInOrder AS io ON o.[order-ID] = io.[order-ID]  
    WHERE o.timestamp >= '2022-08-01' AND o.timestamp < '2022-09-01'  
)  
  
SELECT B.[company-ID], SUM(AO.[total-price]) AS revenue  
FROM AugustOrders as AO, Bookstore B  
JOIN Inventory AS I ON B.[company-ID] = I.[company-ID]  
WHERE AO.[inventory-ID] = I.[inventory-ID]  
GROUP BY B.[company-ID];
```

	company-ID	revenue
1	1	56
2	11	130
3	14	80
4	15	268.2
5	16	210
6	17	180
7	19	270
8	2	70.5
9	20	26.4
10	3	67.5
11	4	26
12	6	684
13	7	112
14	8	38
15	9	63.5

Query Result:

	company-ID	revenue
1	6	684

7. For customers that made the most number of complaints, find the most expensive publication he/she has ever purchased.

WITH

-- Create a view TOPUSER that stores the customer (as customer-ID) that has made the most number of complaints

```
TOPUSER AS (  
    SELECT TOP 1 [customer-ID], COUNT([complaint-ID]) AS NumOfComplaint  
    FROM Complaints  
    GROUP BY [customer-ID]  
    ORDER BY NumOfComplaint desc  
)
```

-- Create a view MAXBYCOMPLAINT that stores the most expensive publication (as publication-ID) purchased by the customer-ID found in TOPUSER

```
MAXBYCOMPLAINT AS (  
    SELECT I.[publication-ID],  
           MAX(I.[selling-price]) AS price  
    FROM Orders O  
    JOIN ItemsInOrder IIO ON O.[order-ID] = IIO.[order-ID]  
    JOIN Inventory AS I ON I.[inventory-ID] = IIO.[inventory-ID]  
    WHERE O.[customer-ID] IN (SELECT [customer-ID] FROM TOPUSER)  
    GROUP BY I.[publication-ID]  
)
```

-- Find the title of the most expensive publication found in MAXBYCOMPLAINT

```
SELECT TOP 1 M.[publication-ID], T.title  
FROM MAXBYCOMPLAINT as M  
JOIN  
(  
    -- Subquery to identify the corresponding publication title given the  
    publication-ID  
    SELECT P.[publication-ID], (CASE WHEN B.title IS NULL THEN M.title ELSE B.title  
    END) as title , M.issue, P.[year of publication]  
    FROM Publication AS P  
    LEFT JOIN Book AS B ON P.[publication-ID]=B.[publication-ID]  
    LEFT JOIN Magazine AS M ON P.[publication-ID]=M.[publication-ID]  
) AS T ON T.[publication-ID] = M.[publication-ID]  
ORDER BY M.price DESC
```

Table Information:

With

```
TOPUSER AS (  
    SELECT [customer-ID], count([complaint-ID]) as NumOfComplaint  
    FROM Complaints  
    Group by [customer-ID]  
) , MAXBYCOMPLAINT AS (  
    select O.[customer-ID], [publication-ID] ,  
    max(I.[selling-price]) as price  
    from Orders O  
    JOIN ItemsInOrder IIO on O.[order-ID] =IIO.[order-ID]  
    JOIN Inventory AS I ON I.[inventory-ID] = IIO.[inventory-ID]  
    Where O.[customer-ID] IN (Select [customer-ID] from TOPUSER)  
    GROUP BY O.[customer-ID],[publication-ID]  
)  
SELECT M.*, NumOfComplaint  
FROM MAXBYCOMPLAINT AS M  
JOIN TOPUSER AS T ON M.[customer-ID] = T.[customer-ID]  
WHERE M.price = (SELECT MAX(price)  
                FROM MAXBYCOMPLAINT AS M2  
                WHERE M2.[customer-ID] = T.[customer-ID])  
ORDER BY M.price DESC;
```

	customer-ID	publication-ID	price	NumOfComplaint
1	1002	14	23.5	3
2	1009	15	20	1
3	1007	4	20	1
4	1003	14	19	3
5	1001	14	19	5
6	1008	10	16	1
7	1005	7	16	3
8	1006	3	15	2
9	1004	1	15	1

Query Result:

	publication-ID	title
1	14	Harry Porter Finale

8. Find publications that have never been purchased by any customer in July 2022, but are the top 3 most purchased publications in August 2022.

--Filter Inventory PublicationID to not contain all July PublicationID sales
--Also filter Inventory PublicationID to include only top 3 purchase of AUG Publication sales

```
SELECT DISTINCT I.[publication-ID],T.title
FROM Inventory I
JOIN (
    SELECT P.[publication-ID], (CASE WHEN B.title IS NULL THEN
CONCAT(M.title,',',M.issue) ELSE B.title END) as title, P.[year of publication]
    FROM Publication AS P
    LEFT JOIN Book AS B ON P.[publication-ID]=B.[publication-ID]
    LEFT JOIN Magazine AS M ON P.[publication-ID]=M.[publication-ID]
) AS T ON T.[publication-ID] = I.[publication-ID]
WHERE I.[publication-ID] NOT IN (
    SELECT [publication-ID]
    FROM Inventory AS Inv1
    WHERE Inv1.[inventory-ID] IN (
        SELECT IIO.[inventory-ID]
        FROM ItemsInOrder IIO
        WHERE IIO.[order-ID] IN (
            SELECT O.[order-ID]
            FROM [Orders] O
            WHERE (month(O.timestamp) = 7 AND YEAR(O.timestamp) = 2022)
        )
    )
)
AND I.[publication-ID] IN (
    SELECT [publication-ID] FROM (
        SELECT TOP 3 Inv2.[publication-ID], SUM(IIO.[item-qty]) AS purchased
        FROM ItemsInOrder AS IIO
        JOIN Inventory AS Inv2 ON Inv2.[inventory-ID] = IIO.[inventory-ID]
        WHERE IIO.[order-ID] IN (
            SELECT O.[order-ID]
            FROM [Orders] AS O
            WHERE (MONTH(O.timestamp) = 8 AND YEAR(O.timestamp) = 2022)
```

```
)  
  GROUP BY Inv2.[publication-ID]  
  ORDER BY purchased DESC  
) AS AUG  
)
```


Table Information:

```
SELECT I.[publication-ID],T.title, month(O.timestamp) as monthPurchased,
COUNT(I.[publication-ID]) as timesPurchased

FROM Inventory I

JOIN (

    SELECT P.[publication-ID], (CASE WHEN B.title IS NULL THEN CONCAT(M.title,',',M.issue)
ELSE B.title END) as title, P.[year of publication]

    FROM Publication AS P

    LEFT JOIN Book AS B ON P.[publication-ID]=B.[publication-ID]

    LEFT JOIN Magazine AS M ON P.[publication-ID]=M.[publication-ID]

) AS T ON T.[publication-ID] = I.[publication-ID], ItemsInOrder AS IO, Orders as O

WHERE IO.[inventory-ID] = I.[inventory-ID] AND O.[order-ID] = IO.[order-ID] AND

((month(O.timestamp) = 7 AND year(O.timestamp) = 2022) OR (month(O.timestamp) = 8 AND
year(O.timestamp) = 2022))

GROUP BY I.[publication-ID], T.title, month(O.timestamp);
```

	publication-ID	title	monthPurchased	timesPurchased
1	1	Harry Porter: The Boy that Lifts	7	9
2	1	Harry Porter: The Boy that Lifts	8	10
3	10	Art of War	8	6
4	11	Global Sciences: Astronomy,Vol. 2 , No. 1	8	2
5	14	Harry Porter Finale	7	6
6	14	Harry Porter Finale	8	8
7	3	The Nightingale	7	6
8	3	The Nightingale	8	4
9	5	Bridge to Terabithia	8	4

Query Result:

	publication-ID	title
1	10	Art of War
2	11	Global Sciences: Astronomy,Vol. 2 , No. 1
3	5	Bridge to Terabithia

9. Find publications that are increasingly being purchased over at least 3 months.

```
--Create a view of number of publication sold each month
-----temp(publication, month, number of purchases)
--Join the same tables 3 times with the conditions same publication ID, every
join add month + 1 to get the 3 month purchase values and filter based on
month1 < month2 < month 3.

WITH temp AS (
    SELECT I.[publication-ID], MONTH(O.[timestamp]) AS [Month], SUM(IIO.[item-qty]) AS
purchase
    FROM ItemsInOrder AS IIO
    JOIN [Orders] AS O ON O.[order-ID] = IIO.[order-ID]
    JOIN Inventory AS I ON I.[inventory-ID] = IIO.[inventory-ID]
    GROUP BY I.[publication-ID],MONTH(O.[timestamp])
    --ORDER BY I.[publication-ID],MONTH(O.[timestamp])
)
SELECT DISTINCT t1.[publication-ID], T.title --, t1.[Month] as M1, t1.purchase ,
t2.[Month] as M2, t2.purchase, t3.[Month] as M3, t3.purchase
FROM temp t1
LEFT JOIN temp t2 on t2.[Month] = t1.[Month] + 1 and t1.[publication-ID] =
t2.[publication-ID]
LEFT JOIN temp t3 on t3.[Month] = t1.[Month] + 2 and t1.[publication-ID] =
t3.[publication-ID]
JOIN (
    SELECT P.[publication-ID], (CASE WHEN B.title IS NULL THEN CONCAT(M.title, ', ',
M.issue) ELSE B.title END) AS title, P.[year of publication]
    FROM Publication AS P
    LEFT JOIN Book AS B ON P.[publication-ID]=B.[publication-ID]
    LEFT JOIN Magazine AS M ON P.[publication-ID]=M.[publication-ID]
) AS T ON T.[publication-ID] = t1.[publication-ID]
WHERE t1.purchase < t2.purchase
AND t2.purchase < t3.purchase;
```

Table Information:

```
WITH temp AS (  
    SELECT I.[publication-ID], MONTH(O.[timestamp]) AS [Month], SUM(IIO.[item-qty]) AS  
purchase  
    --into #temp  
    FROM ItemsInOrder AS IIO  
    JOIN [Orders] AS O ON O.[order-ID] = IIO.[order-ID]  
    JOIN Inventory AS I ON I.[inventory-ID] = IIO.[inventory-ID]  
    GROUP BY I.[publication-ID],MONTH(O.[timestamp])  
)  
  
SELECT t1.[publication-ID], T.title , t1.[Month] as M1, t1.purchase , t2.[Month] as M2,  
t2.purchase, t3.[Month] as M3, t3.purchase  
  
FROM temp t1  
  
LEFT JOIN temp t2 on t2.[Month] = t1.[Month] + 1 and t1.[publication-ID] =  
t2.[publication-ID]  
  
LEFT JOIN temp t3 on t3.[Month] = t1.[Month] + 2 and t1.[publication-ID] =  
t3.[publication-ID]  
  
JOIN (  
    SELECT P.[publication-ID], (CASE WHEN B.title IS NULL THEN CONCAT(M.title, ', ',  
M.issue) ELSE B.title END) AS title, P.[year of publication]  
    FROM Publication AS P  
    LEFT JOIN Book AS B ON P.[publication-ID]=B.[publication-ID]  
    LEFT JOIN Magazine AS M ON P.[publication-ID]=M.[publication-ID]  
) AS T ON T.[publication-ID] = t1.[publication-ID];
```

	publication-ID	title	M1	purchase	M2	purchase	M3	purchase
1	15	Stanford Dictionary	5	1	NULL	NULL	NULL	NULL
2	8	Oxford Dictionary	5	1	NULL	NULL	NULL	NULL
3	1	Harry Porter: The Boy that Lifts	6	4	7	13	8	16
4	12	Lifestyle, No. 1	6	1	NULL	NULL	NULL	NULL
5	14	Harry Porter Finale	6	4	7	14	8	20
6	3	The Nightingale	6	9	7	12	8	17
7	5	Bridge to Terabithia	6	1	NULL	NULL	8	57
8	1	Harry Porter: The Boy that Lifts	7	13	8	16	NULL	NULL
9	14	Harry Porter Finale	7	14	8	20	NULL	NULL
10	3	The Nightingale	7	12	8	17	NULL	NULL
11	1	Harry Porter: The Boy that Lifts	8	16	NULL	NULL	NULL	NULL
12	10	Art of War	8	30	NULL	NULL	NULL	NULL
13	11	Global Sciences: Astronomy, Vol. 2 , No. 1	8	30	NULL	NULL	NULL	NULL
14	14	Harry Porter Finale	8	20	NULL	NULL	NULL	NULL
15	3	The Nightingale	8	17	NULL	NULL	NULL	NULL
16	5	Bridge to Terabithia	8	57	NULL	NULL	NULL	NULL
17	13	Lifestyle, No. 2	9	1	NULL	NULL	NULL	NULL
18	2	Global Sciences: Chemistry, Vol. 1 , No. 1	9	1	NULL	NULL	NULL	NULL
19	4	Harry Porter: One in the Chamber	9	1	NULL	NULL	NULL	NULL
20	6	Global Sciences: Physics, Vol. 1 , No. 2	9	1	NULL	NULL	NULL	NULL
21	7	The Catcher in the Rye	9	1	NULL	NULL	NULL	NULL
22	9	Global Sciences: Biology, Vol. 1 , No. 3	9	1	NULL	NULL	NULL	NULL

Query Result:

	publication-ID	title
1	1	Harry Porter: The Boy that Lifts
2	14	Harry Porter Finale
3	3	The Nightingale

10. Find customers used to make complaint on a bookstore but continued to make purchases after the complaint

- Customers who made a complaint on a bookstore: **ComplaintHistory** -> status = 'Pending' complaints to get the **complaint-ID** and the **date(s)**
- Can then join this **complaint-ID** w/ **BookstoreComplaints** to get the corresponding **company-ID**
- Using the **company-ID**, can find all corresponding **inventory-IDs** in Inventory
- These **inventory-IDs** can then be matched w/ their corresponding records in **ItemsInOrder** join **Orders** (based on matching **order-ID**), and then check for **Orders.timestamp** that is > **date(s)**

```
-- Create view to find Customer making complaints on bookstore
----- CustCompHist(customer, complaint, the date they make complain and the
book store they make complain to)
```

```
-- Create view to find Customer placing order on bookstore
----- CustO(customer, order, when they make order, the bookstore they make
order on)
```

```
-- Join CustCompHist and CustO based on condition of same customerID, same
bookstore, and date of the complaint is before the date of purchasing order.
Then we return the customer name
```

With

```
CustCompHist AS (
    SELECT C.[customer-ID], C.[complaint-ID], CH.[date] as d, B.[company-ID] --,
    MONTH(CH.[date]) as M
    FROM [Complaints] AS C
    JOIN ComplaintHistory AS CH ON C.[complaint-ID] = CH.[complaint-ID]
    JOIN BookstoreComplaint AS B ON B.[complaint-ID] = C.[complaint-ID]
),
```

```
CustO AS (
    SELECT O.[customer-ID] , O.[order-ID], O.[timestamp], I.[company-ID]
    FROM [Orders] AS O
    JOIN ItemsInOrder AS IIO ON O.[order-ID] = IIO.[order-ID]
    JOIN Inventory AS I ON I.[inventory-ID] = IIO.[inventory-ID]
)
```

```
SELECT DISTINCT C1.customerID, C1.name --* can change this part to SELECT * to
have a more comprehensive view of the table obtained
```

```
FROM CustCompHist AS CH
JOIN CustO AS C
ON C.[customer-ID] = CH.[customer-ID]
AND C.[company-ID] = CH.[company-ID]
AND CH.d < C.[timestamp]
JOIN Customer AS C1 ON C1.[customerID] = C.[customer-ID]
```

Table Information:

With

```
CustCompHist AS (
```

```
SELECT C.[customer-ID], C.[complaint-ID], CH.[date] as d, B.[company-ID] --,
MONTH(CH.[date]) as M
```

```
FROM [Complaints] AS C
```

```
JOIN ComplaintHistory AS CH ON C.[complaint-ID] = CH.[complaint-ID]
```

```
JOIN BookstoreComplaint AS B ON B.[complaint-ID] = C.[complaint-ID]
```

```
), CustO AS (
```

```
select O.[customer-ID] , O.[order-ID], O.[timestamp], I.[company-ID]
```

```
from [Orders] AS O
```

```
JOIN ItemsInOrder AS IIO ON O.[order-ID] = IIO.[order-ID]
```

```
JOIN Inventory AS I ON I.[inventory-ID] = IIO.[inventory-ID]
```

```
)
```

```
Select CH.[customer-ID], CH.d AS complaintDate, CH.[company-ID] as bookstoreComplained,
C.timestamp AS orderedDate,
```

```
C.[company-ID] AS orderedFrom, C1.name
```

```
from CustCompHist AS CH
```

```
JOIN CustO AS C
```

```
ON C.[customer-ID] = CH.[customer-ID]
```

```
and C.[company-ID] = CH.[company-ID]
```

```
JOIN Customer AS C1 ON C1.[customerID] = C.[customer-ID]
```

	customer-ID	complaintDate	bookstoreComplained	orderedDate	orderedFrom	name
1	1005	2022-08-19 00:00:00.000	7	2022-07-23 20:34:10.000	7	Eliza
2	1005	2022-08-17 00:00:00.000	7	2022-07-23 20:34:10.000	7	Eliza
3	1005	2022-08-16 00:00:00.000	7	2022-07-23 20:34:10.000	7	Eliza
4	1002	2022-07-17 00:00:00.000	2	2022-08-01 11:32:12.000	2	Beck
5	1002	2022-07-15 00:00:00.000	2	2022-08-01 11:32:12.000	2	Beck
6	1002	2022-07-14 00:00:00.000	2	2022-08-01 11:32:12.000	2	Beck
7	1001	2022-07-05 00:00:00.000	4	2022-07-01 16:32:10.000	4	Alan
8	1001	2022-07-03 00:00:00.000	4	2022-07-01 16:32:10.000	4	Alan
9	1001	2022-07-02 00:00:00.000	4	2022-07-01 16:32:10.000	4	Alan
10	1005	2022-08-19 00:00:00.000	7	2022-09-17 16:23:22.000	7	Eliza
11	1005	2022-08-17 00:00:00.000	7	2022-09-17 16:23:22.000	7	Eliza
12	1005	2022-08-16 00:00:00.000	7	2022-09-17 16:23:22.000	7	Eliza
13	1006	2022-07-11 00:00:00.000	10	2022-09-15 22:19:59.000	10	Fred
14	1006	2022-07-10 00:00:00.000	10	2022-09-15 22:19:59.000	10	Fred

Query Result:

	customerID	name
1	1002	Beck
2	1005	Eliza
3	1006	Fred