

```

CREATE TABLE Customers
(CustomerID INT(4),
LastName VARCHAR(10) NOT NULL,
FirstName VARCHAR(10) NOT NULL,
Address VARCHAR(20),
City VARCHAR(12),
State VARCHAR(2),
Zip VARCHAR(5),
Referred INT(4),
Region CHAR(2),
CONSTRAINT customers_customerID_pk PRIMARY KEY(customerID),
CONSTRAINT customers_region_ck
CHECK (region IN ('N', 'NW', 'NE', 'S', 'SE', 'SW', 'W',
'E'))) );

INSERT INTO CUSTOMERS
VALUES (1001, 'MORALES', 'BONITA', 'P.O. BOX 651', 'EASTPOINT', 'FL',
'32328', NULL, 'SE');
INSERT INTO CUSTOMERS
VALUES (1002, 'THOMPSON', 'RYAN', 'P.O. BOX 9835', 'SANTA MONICA', 'CA',
'90404', NULL, 'W');
INSERT INTO CUSTOMERS
VALUES (1003, 'SMITH', 'LEILA', 'P.O. BOX 66', 'TALLAHASSEE', 'FL',
'32306', NULL, 'SE');
INSERT INTO CUSTOMERS
VALUES (1004, 'PIERSON', 'THOMAS', '69821 SOUTH AVENUE', 'BOISE', 'ID',
'83707', NULL, 'NW');
INSERT INTO CUSTOMERS
VALUES (1005, 'GIRARD', 'CINDY', 'P.O. BOX 851', 'SEATTLE', 'WA', '98115',
NULL, 'NW');
INSERT INTO CUSTOMERS
VALUES (1006, 'CRUZ', 'MESHIA', '82 DIRT ROAD', 'ALBANY', 'NY', '12211',
NULL, 'NE');
INSERT INTO CUSTOMERS
VALUES (1007, 'GIANA', 'TAMMY', '9153 MAIN STREET', 'AUSTIN', 'TX',
'78710', 1003, 'SW');
INSERT INTO CUSTOMERS
VALUES (1008, 'JONES', 'KENNETH', 'P.O. BOX 137', 'CHEYENNE', 'WY',
'82003', NULL, 'N');
INSERT INTO CUSTOMERS
VALUES (1009, 'PEREZ', 'JORGE', 'P.O. BOX 8564', 'BURBANK', 'CA', '91510',
1003, 'W');
INSERT INTO CUSTOMERS
VALUES (1010, 'LUCAS', 'JAKE', '114 EAST SAVANNAH', 'ATLANTA', 'GA',
'30314', NULL, 'SE');
INSERT INTO CUSTOMERS
VALUES (1011, 'MCGOVERN', 'REESE', 'P.O. BOX 18', 'CHICAGO', 'IL', '60606',
NULL, 'N');
INSERT INTO CUSTOMERS
VALUES (1012, 'MCKENZIE', 'WILLIAM', 'P.O. BOX 971', 'BOSTON', 'MA',
'02110', NULL, 'NE');
INSERT INTO CUSTOMERS
VALUES (1013, 'NGUYEN', 'NICHOLAS', '357 WHITE EAGLE AVE.', 'CLERMONT',
'FL', '34711', 1006, 'SE');
INSERT INTO CUSTOMERS
VALUES (1014, 'LEE', 'JASMINE', 'P.O. BOX 2947', 'CODY', 'WY', '82414',
NULL, 'N');
INSERT INTO CUSTOMERS
VALUES (1015, 'SCHELL', 'STEVE', 'P.O. BOX 677', 'MIAMI', 'FL', '33111',
NULL, 'SE');
INSERT INTO CUSTOMERS

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```

VALUES (1016, 'DAUM', 'MICHELL', '9851231 LONG ROAD', 'BURBANK', 'CA',
'91508', 1010, 'W');
INSERT INTO CUSTOMERS
VALUES (1017, 'NELSON', 'BECCA', 'P.O. BOX 563', 'KALMAZOO', 'MI', '49006',
NULL, 'N');
INSERT INTO CUSTOMERS
VALUES (1018, 'MONTIASA', 'GREG', '1008 GRAND AVENUE', 'MACON', 'GA',
'31206', NULL, 'SE');
INSERT INTO CUSTOMERS
VALUES (1019, 'SMITH', 'JENNIFER', 'P.O. BOX 1151', 'MORRISTOWN', 'NJ',
'07962', 1003, 'NE');
INSERT INTO CUSTOMERS
VALUES (1020, 'FALAH', 'KENNETH', 'P.O. BOX 335', 'TRENTON', 'NJ', '08607',
NULL, 'NE');

```

```

CREATE TABLE Orders
(OrderID INT(4),
CustomerID INT(4),
OrderDate DATE NOT NULL,
ShipDate DATE,
ShipStreet VARCHAR(18),
ShipCity VARCHAR(15),
ShipState VARCHAR(2),
ShipZip VARCHAR(5),
ShipCost DECIMAL(4,2),
CONSTRAINT orders_orderID_pk PRIMARY KEY(orderID),
CONSTRAINT orders_customerID_fk FOREIGN KEY (customerID)
REFERENCES customers(customerID));

```

```

INSERT INTO ORDERS
VALUES (1000,1005, '2009-03-31', '2009-04-02', '1201 ORANGE AVE', 'SEATTLE',
'WA', '98114', 2.00);
INSERT INTO ORDERS
VALUES (1001,1010, '2009-03-31', '2009-04-01', '114 EAST SAVANNAH',
'ATLANTA', 'GA', '30314', 3.00);
INSERT INTO ORDERS
VALUES (1002,1011, '2009-03-31', '2009-04-01', '58 TILA CIRCLE', 'CHICAGO',
'IL', '60605', 3.00);
INSERT INTO ORDERS
VALUES (1003,1001, '2009-04-01', '2009-04-01', '958 MAGNOLIA LANE',
'EASTPOINT', 'FL', '32328', 4.00);
INSERT INTO ORDERS
VALUES (1004,1020, '2009-04-01', '2009-04-05', '561 ROUNDABOUT WAY',
'TRENTON', 'NJ', '08601', NULL);
INSERT INTO ORDERS
VALUES (1005,1018, '2009-04-01', '2009-04-02', '1008 GRAND AVENUE', 'MACON',
'GA', '31206', 2.00);
INSERT INTO ORDERS
VALUES (1006,1003, '2009-04-01', '2009-04-02', '558A CAPITOL HWY.',
'TALLAHASSEE', 'FL', '32307', 2.00);
INSERT INTO ORDERS
VALUES (1007,1007, '2009-04-02', '2009-04-04', '9153 MAIN STREET', 'AUSTIN',
'TX', '78710', 7.00);
INSERT INTO ORDERS
VALUES (1008,1004, '2009-04-02', '2009-04-03', '69821 SOUTH AVENUE', 'BOISE',
'ID', '83707', 3.00);
INSERT INTO ORDERS
VALUES (1009,1005, '2009-04-03', '2009-04-05', '9 LIGHTENING RD.', 'SEATTLE',
'WA', '98110', NULL);
INSERT INTO ORDERS

```

```

VALUES (1010,1019,'2009-04-03','2009-04-04','384 WRONG WAY HOME',
'MORRISTOWN', 'NJ', '07960', 2.00);
INSERT INTO ORDERS
VALUES (1011,1010,'2009-04-03','2009-04-05', '102 WEST LAFAYETTE',
'ATLANTA', 'GA', '30311', 2.00);
INSERT INTO ORDERS
VALUES (1012,1017,'2009-04-03',NULL,'1295 WINDY AVENUE', 'KALMAZOO', 'MI',
'49002', 6.00);
INSERT INTO ORDERS
VALUES (1013,1014,'2009-04-03','2009-04-04','7618 MOUNTAIN RD.', 'CODY',
'WY', '82414', 2.00);
INSERT INTO ORDERS
VALUES (1014,1007,'2009-04-04','2009-04-05', '9153 MAIN STREET', 'AUSTIN',
'TX', '78710', 3.00);
INSERT INTO ORDERS
VALUES (1015,1020,'2009-04-04',NULL,'557 GLITTER ST.', 'TRENTON', 'NJ',
'08606', 2.00);
INSERT INTO ORDERS
VALUES (1016,1003,'2009-04-04',NULL,'9901 SEMINOLE WAY', 'TALLAHASSEE',
'FL', '32307', 2.00);
INSERT INTO ORDERS
VALUES (1017,1015,'2009-04-04','05-APR-05','887 HOT ASPHALT ST', 'MIAMI',
'FL', '33112', 3.00);
INSERT INTO ORDERS
VALUES (1018,1001,'2009-04-05',NULL,'95812 HIGHWAY 98', 'EASTPOINT', 'FL',
'32328', NULL);
INSERT INTO ORDERS
VALUES (1019,1018,'2009-04-05',NULL, '1008 GRAND AVENUE', 'MACON', 'GA',
'31206', 2.00);
INSERT INTO ORDERS
VALUES (1020,1008,'2009-04-05',NULL,'195 JAMISON LANE', 'CHEYENNE', 'WY',
'82003', 2.00);

```

```

CREATE TABLE Publisher
(PubID INT(2),
Name VARCHAR(23),
Contact VARCHAR(15),
Phone VARCHAR(12),
CONSTRAINT publisher_pubid_pk PRIMARY KEY(pubid));

```

```

INSERT INTO PUBLISHER
VALUES(1,'PRINTING IS US','TOMMIE SEYMOUR','000-714-8321');
INSERT INTO PUBLISHER
VALUES(2,'PUBLISH OUR WAY','JANE TOMLIN','010-410-0010');
INSERT INTO PUBLISHER
VALUES(3,'AMERICAN PUBLISHING','DAVID DAVIDSON','800-555-1211');
INSERT INTO PUBLISHER
VALUES(4,'READING MATERIALS INC.','RENEE SMITH','800-555-9743');
INSERT INTO PUBLISHER
VALUES(5,'REED-N-RITE','SEBASTIAN JONES','800-555-8284');

```

```

CREATE TABLE Author
(AuthorID VARCHAR(4),
Lname VARCHAR(10),
Fname VARCHAR(10),
CONSTRAINT author_authorid_pk PRIMARY KEY(authorid));

```

```

INSERT INTO AUTHOR
VALUES ('S100','SMITH','SAM');
INSERT INTO AUTHOR
VALUES ('J100','JONES','JANICE');

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```

INSERT INTO AUTHOR
VALUES ('A100','AUSTIN','JAMES');
INSERT INTO AUTHOR
VALUES ('M100','MARTINEZ','SHEILA');
INSERT INTO AUTHOR
VALUES ('K100','KZOSCHSKY','TAMARA');
INSERT INTO AUTHOR
VALUES ('P100','PORTER','LISA');
INSERT INTO AUTHOR
VALUES ('A105','ADAMS','JUAN');
INSERT INTO AUTHOR
VALUES ('B100','BAKER','JACK');
INSERT INTO AUTHOR
VALUES ('P105','PETERSON','TINA');
INSERT INTO AUTHOR
VALUES ('W100','WHITE','WILLIAM');
INSERT INTO AUTHOR
VALUES ('W105','WHITE','LISA');
INSERT INTO AUTHOR
VALUES ('R100','ROBINSON','ROBERT');
INSERT INTO AUTHOR
VALUES ('F100','FIELDS','OSCAR');
INSERT INTO AUTHOR
VALUES ('W110','WILKINSON','ANTHONY');

```

```

CREATE TABLE Books
(ISBN VARCHAR(10),
Title VARCHAR(30),
PubDate DATE,
PubID INT (2),
Cost DECIMAL (5,2),
Retail DECIMAL (5,2),
Discount DECIMAL (4,2),
Category VARCHAR(12),
CONSTRAINT books_isbn_pk PRIMARY KEY(isbn),
CONSTRAINT books_pubid_fk FOREIGN KEY (pubid)
REFERENCES publisher (pubid));

```

```

INSERT INTO BOOKS
VALUES ('1059831198','BODYBUILD IN 10 MINUTES A DAY','2005-01-21',4,18.75,30.95, NULL, 'FITNESS');
INSERT INTO BOOKS
VALUES ('0401140733','REVENGE OF MICKEY','2005-12-14',1,14.20,22.00, NULL, 'FAMILY LIFE');
INSERT INTO BOOKS
VALUES ('4981341710','BUILDING A CAR WITH TOOTHPICKS','2006-03-18',2,37.80,59.95, 3.00, 'CHILDREN');
INSERT INTO BOOKS
VALUES ('8843172113','DATABASE IMPLEMENTATION','2003-06-04',3,31.40,55.95, NULL, 'COMPUTER');
INSERT INTO BOOKS
VALUES ('3437212490','COOKING WITH MUSHROOMS','2004-02-28',4,12.50,19.95, NULL, 'COOKING');
INSERT INTO BOOKS
VALUES ('3957136468','HOLY GRAIL OF ORACLE','2005-12-31',3,47.25,75.95, 3.80, 'COMPUTER');
INSERT INTO BOOKS
VALUES ('1915762492','HANDCRANKED COMPUTERS','2005-01-21',3,21.80,25.00, NULL, 'COMPUTER');
INSERT INTO BOOKS

```

```

VALUES ('9959789321','E-BUSINESS THE EASY WAY','2006-03-01',2,37.90,54.50,
NULL, 'COMPUTER');
INSERT INTO BOOKS
VALUES ('2491748320','PAINLESS CHILD-REARING','2004-07-17',5,48.00,89.95,
4.50, 'FAMILY LIFE');
INSERT INTO BOOKS
VALUES ('0299282519','THE WOK WAY TO COOK','2004-09-11',4,19.00,28.75,
NULL, 'COOKING');
INSERT INTO BOOKS
VALUES ('8117949391','BIG BEAR AND LITTLE DOVE','2005-11-08',5,5.32,8.95,
NULL, 'CHILDREN');
INSERT INTO BOOKS
VALUES ('0132149871','HOW TO GET FASTER PIZZA','2006-11-1',4,17.85,29.95,
1.50, 'SELF HELP');
INSERT INTO BOOKS
VALUES ('9247381001','HOW TO MANAGE THE MANAGER','2009-05-
09',1,15.40,31.95, NULL, 'BUSINESS');
INSERT INTO BOOKS
VALUES ('2147428890','SHORTEST POEMS','2005-05-01',5,21.85,39.95, NULL,
'LITERATURE');

```

```

CREATE TABLE ORDERITEMS
( OrderID INT(4),
  ItemID INT(2),
  ISBN VARCHAR(10),
  Quantity INT(3) NOT NULL,
  PaidEach DECIMAL(5,2) NOT NULL,
  CONSTRAINT orderitems_pk PRIMARY KEY (orderID, itemID),
  CONSTRAINT orderitems_orderID_fk FOREIGN KEY (orderID)
    REFERENCES orders (orderID) ,
  CONSTRAINT orderitems_isbn_fk FOREIGN KEY (isbn)
    REFERENCES books (isbn) ,
  CONSTRAINT oderitems_quantity_ck CHECK (quantity > 0) );

```

```

INSERT INTO ORDERITEMS
VALUES (1000,1,'3437212490',1,19.95);
INSERT INTO ORDERITEMS
VALUES (1001,1,'9247381001',1,31.95);
INSERT INTO ORDERITEMS
VALUES (1001,2,'2491748320',1,85.45);
INSERT INTO ORDERITEMS
VALUES (1002,1,'8843172113',2,55.95);
INSERT INTO ORDERITEMS
VALUES (1003,1,'8843172113',1,55.95);
INSERT INTO ORDERITEMS
VALUES (1003,2,'1059831198',1,30.95);
INSERT INTO ORDERITEMS
VALUES (1003,3,'3437212490',1,19.95);
INSERT INTO ORDERITEMS
VALUES (1004,1,'2491748320',2,85.45);
INSERT INTO ORDERITEMS
VALUES (1005,1,'2147428890',1,39.95);
INSERT INTO ORDERITEMS
VALUES (1006,1,'9959789321',1,54.50);
INSERT INTO ORDERITEMS
VALUES (1007,1,'3957136468',3,72.15);
INSERT INTO ORDERITEMS
VALUES (1007,2,'9959789321',1,54.50);
INSERT INTO ORDERITEMS
VALUES (1007,3,'8117949391',1,8.95);
INSERT INTO ORDERITEMS

```

```

VALUES (1007,4,'8843172113',1,55.95);
INSERT INTO ORDERITEMS
VALUES (1008,1,'3437212490',2,19.95);
INSERT INTO ORDERITEMS
VALUES (1009,1,'3437212490',1,19.95);
INSERT INTO ORDERITEMS
VALUES (1009,2,'0401140733',1,22.00);
INSERT INTO ORDERITEMS
VALUES (1010,1,'8843172113',1,55.95);
INSERT INTO ORDERITEMS
VALUES (1011,1,'2491748320',1,85.45);
INSERT INTO ORDERITEMS
VALUES (1012,1,'8117949391',1,8.95);
INSERT INTO ORDERITEMS
VALUES (1012,2,'1915762492',2,25.00);
INSERT INTO ORDERITEMS
VALUES (1012,3,'2491748320',1,85.45);
INSERT INTO ORDERITEMS
VALUES (1012,4,'0401140733',1,22.00);
INSERT INTO ORDERITEMS
VALUES (1013,1,'8843172113',1,55.95);
INSERT INTO ORDERITEMS
VALUES (1014,1,'0401140733',2,22.00);
INSERT INTO ORDERITEMS
VALUES (1015,1,'3437212490',1,19.95);
INSERT INTO ORDERITEMS
VALUES (1016,1,'2491748320',1,85.45);
INSERT INTO ORDERITEMS
VALUES (1017,1,'8117949391',2,8.95);
INSERT INTO ORDERITEMS
VALUES (1018,1,'3437212490',1,19.95);
INSERT INTO ORDERITEMS
VALUES (1018,2,'8843172113',1,55.95);
INSERT INTO ORDERITEMS
VALUES (1019,1,'0401140733',1,22.00);
INSERT INTO ORDERITEMS
VALUES (1020,1,'3437212490',1,19.95);

```

```

CREATE TABLE BOOKAUTHOR
(ISBN VARCHAR(10),
 AuthorID VARCHAR(4),
 CONSTRAINT bookauthor_pk PRIMARY KEY (isbn, authorid),
 CONSTRAINT bookauthor_isbn_fk FOREIGN KEY (isbn)
 REFERENCES books (isbn),
 CONSTRAINT bookauthor_authorid_fk FOREIGN KEY (authorid)
 REFERENCES author (authorid));

```

```

INSERT INTO BOOKAUTHOR
VALUES ('1059831198','S100');
INSERT INTO BOOKAUTHOR
VALUES ('1059831198','P100');
INSERT INTO BOOKAUTHOR
VALUES ('0401140733','J100');
INSERT INTO BOOKAUTHOR
VALUES ('4981341710','K100');
INSERT INTO BOOKAUTHOR
VALUES ('8843172113','P105');
INSERT INTO BOOKAUTHOR
VALUES ('8843172113','A100');
INSERT INTO BOOKAUTHOR
VALUES ('8843172113','A105');

```

```

INSERT INTO BOOKAUTHOR
VALUES ('3437212490','B100');
INSERT INTO BOOKAUTHOR
VALUES ('3957136468','A100');
INSERT INTO BOOKAUTHOR
VALUES ('1915762492','W100');
INSERT INTO BOOKAUTHOR
VALUES ('1915762492','W105');
INSERT INTO BOOKAUTHOR
VALUES ('9959789321','J100');
INSERT INTO BOOKAUTHOR
VALUES ('2491748320','R100');
INSERT INTO BOOKAUTHOR
VALUES ('2491748320','F100');
INSERT INTO BOOKAUTHOR
VALUES ('2491748320','B100');
INSERT INTO BOOKAUTHOR
VALUES ('0299282519','S100');
INSERT INTO BOOKAUTHOR
VALUES ('8117949391','R100');
INSERT INTO BOOKAUTHOR
VALUES ('0132149871','S100');
INSERT INTO BOOKAUTHOR
VALUES ('9247381001','W100');
INSERT INTO BOOKAUTHOR
VALUES ('2147428890','W105');

```

```

CREATE TABLE promotion
(Gift varchar(15),
Minretail DECIMAL(5,2),
Maxretail DECIMAL(5,2));

```

```

INSERT into promotion
VALUES ('BOOKMARKER', 0, 12);
INSERT into promotion
VALUES ('BOOK LABELS', 12.01, 25);
INSERT into promotion
VALUES ('BOOK COVER', 25.01, 56);
INSERT into promotion
VALUES ('FREE SHIPPING', 56.01, 999.99);
COMMIT;

```

```

CREATE TABLE acctmanager
(amid VARCHAR(4) PRIMARY KEY,
amfirst VARCHAR(12) NOT NULL,
amlast VARCHAR(12) NOT NULL,
amedate DATE DEFAULT SYSDATE(),
region CHAR(2) NOT NULL);

```

```

CREATE TABLE acctmanager2
(amid CHAR(4),
amfirst VARCHAR(12) NOT NULL,
amlast VARCHAR(12) NOT NULL,
amedate DATE DEFAULT SYSDATE(),
region CHAR(2),
CONSTRAINT acctmanager2_amid_pk PRIMARY KEY (amid),
CONSTRAINT acctmanager2_region_ck
CHECK (region IN ('N', 'NW', 'NE', 'S', 'SE', 'SW', 'W',
'E')));

```

3.

```
CREATE TABLE category  
(CatCode VARCHAR(2),  
CatDesc VARCHAR(10));
```

4.

```
CREATE TABLE employees  
(EmpID INT (5),  
LastName VARCHAR(10) NOT NULL,  
FirstName VARCHAR(10) NOT NULL,  
Job_class VARCHAR(4)  
);
```

5.

```
ALTER TABLE employees  
ADD EmpDate DATE DEFAULT SYSDATE();  
ALTER TABLE employees  
ADD EndDate DATE;
```

6. tatau

7. da delete

8.

```
ALTER TABLE employees  
RENAME TO JL_EMPS;
```

9.

```
CREATE TABLE BOOK_PRICING AS  
SELECT ISBN, Cost, Retail, Category  
FROM books
```

10.

```
show TABLES
```

The screenshot displays a MySQL database management interface. On the left, a tree view shows the database structure: 'New' (root), 'information_schema', 'jldb' (selected), 'New' (under jldb), and 'mysql' and 'performance_schema' at the bottom. The 'New' database under 'jldb' contains tables: 'acctmanager', 'acctmanager2', 'author', 'bookauthor', 'books', 'category', 'customers', 'jl_emps', 'orderitems', 'orders', 'promotion', and 'publisher'. On the right, a panel titled '+ Options' shows 'Tables_in_jldb' with a list of tables: 'acctmanager', 'acctmanager2', 'author', 'bookauthor', 'books', 'category', 'customers', 'jl_emps', 'orderitems', 'orders', 'promotion', and 'publisher'. Below this list, a 'Query results operations' box contains buttons for 'Print', 'Copy to clipboard', and 'Create view'.

