**Creation of Tables**

create table band(

band\_id int,

band\_name varchar(30),

hometown varchar(30),

record\_label varchar(30),

primary key (band\_id)

);

create table band\_genre(

band\_id int,

genre varchar(30),

primary key (band\_id),

foreign key (band\_id) references band(band\_id)

);

create table album(

album\_id int,

band\_id int,

album\_name varchar(30),

album\_price float,

release\_date date,

explicit\_bool varchar(30),

album\_available varchar(30),

primary key (album\_id),

foreign key (band\_id) references band(band\_id)

);

create table merchandise(

product\_id int,

band\_id int,

product\_size varchar(30),

product\_price float,

product\_available varchar(30),

primary key (product\_id),

foreign key (band\_id) references band(band\_id)

);

create table sweat\_shirt(

ss\_product\_id int,

has\_hood varchar(30),

has\_zipper varchar(30),

primary key (ss\_product\_id),

foreign key (ss\_product\_id) references merchandise(product\_id)

);

create table shirt(

s\_product\_id int,

has\_sleeves varchar(30),

has\_pocket varchar(30),

primary key (s\_product\_id),

foreign key (s\_product\_id) references merchandise(product\_id)

);

create table hat(

h\_product\_id int,

hat\_style varchar(30),

strap\_type varchar(30),

primary key (h\_product\_id),

foreign key (h\_product\_id) references merchandise(product\_id)

);

create table customer(

customer\_id int,

name varchar(30),

age int,

street varchar(30),

city varchar(30),

state varchar(30),

zipcode int,

payment\_type varchar(30),

primary key (customer\_id)

);

create table customer\_phone\_num(

customer\_id int,

phone\_num varchar(30),

primary key (customer\_id, phone\_num),

foreign key (customer\_id) references customer(customer\_id)

);

create table orders(

order\_id int,

num\_units int,

customer\_id int,

primary key (order\_id),

foreign key (customer\_id) references customer(customer\_id)

);

create table order\_product\_id(

order\_id int,

product\_id int,

primary key (order\_id, product\_id),

foreign key (order\_id) references orders (order\_id),

foreign key (product\_id) references merchandise (product\_id)

);

create table order\_album\_id(

order\_id int,

album\_id int,

primary key (order\_id, album\_id),

foreign key (order\_id) references orders (order\_id),

foreign key (album\_id) references album (album\_id)

);

**Input of Data**

insert into band values(1, ‘DJ Milk’, ‘Asheville’, ‘Underground Beats’);

insert into band values(2, ‘Billy and the Bayou Stompers’, ‘Gainesville’, ‘Sunlock’);

insert into band values(3, ‘Crow Heart’, ‘Baltimore’, ‘Cemetery’);

insert into band values(4, ‘The Windowwashers’, ‘Seattle’, ‘Simple N Clean’);

insert into band values(5, ‘Sebastian Costello’, ‘New York’, ‘Pristine’);

insert into band values(6, ‘Lil Big’, ‘Louisville’, ‘Underground Beats’);

insert into band values(7, 'Joy Toy’, ‘Hamburg’, ‘International’);

insert into band values(8, ‘Pretty Terrible’, ‘Chicago’, ‘Trash Can’);

insert into band values(9, ‘Red Brick’, ‘Detroit’, ‘Diabolical’);

insert into band values(10, ‘QuikPoison’, ‘Los Angeles’, ‘Cemetery’);

Insert into band\_genre values(1, ‘Rap’);

Insert into band\_genre values(2, ‘Pyschobilly’);

Insert into band\_genre values(3, ‘Emo’);

Insert into band\_genre values(4, ‘Punk’);

Insert into band\_genre values(5, ‘Classical’);

Insert into band\_genre values(6, ‘Rap’);

Insert into band\_genre values(7, ‘Pyschobilly’);

Insert into band\_genre values(8, ‘Classical’);

Insert into band\_genre values(9, ‘Indie’);

Insert into band\_genre values(10, ‘Punk’);

Insert into album values(1, 1, ‘Stir that Syrup’, 4.99,  date ‘1999-3-5’, ‘Yes’, ‘Yes’);

Insert into album values(2, 1, ‘Ovaltine is for Losers’, 4.99,  date ‘2003-7-28’, ‘Yes’, ‘Yes’);

Insert into album values(3, 2, ‘Meemaw Married an Alligator!?’, 2.99,  date ‘2000-2-15’, ‘Yes’, ‘Yes’);

Insert into album values(4, 2, ‘Swamp Thing’, 2.99,  date ‘2002-4-3’, ‘Yes’, ‘No’);

Insert into album values(5, 3, ‘Life Sux’, .99,  date ‘2007-1-18’, ‘Yes’, ‘Yes’);

Insert into album values(6, 3, ‘My Heart Longs for You’, .99,  date ‘2009-9-27’, ‘Yes’, ‘Yes’);

Insert into album values(7, 4, ‘Power Wash’, 4.99,  date ‘2002-1-13’, ‘Yes’, ‘Yes’);

Insert into album values(8, 4, ‘Stains’, 4.99,  date ‘2003-9-28’, ‘Yes’, ‘Yes’);

Insert into album values(9, 5, ‘Woman on the train’, 4.99,  date ‘2014-11-3’, ‘No’, ‘Yes’);

Insert into album values(10, 5, ‘Revolution after Rainfall’, 4.99,  date ‘2016-8-20’, ‘No’, ‘Yes’);

Insert into album values(11, 6, ‘Say NO to Drugs’, 4.99,  date ‘2015-2-17’, ‘Yes’, ‘Yes’);

Insert into album values(12, 6, ‘Misogyny is Wack’, 4.99,  date ‘2017-9-5’, ‘Yes’, ‘Yes’);

Insert into album values(13, 7, ‘Act I’, 4.99,  date ‘2008-3-23’, ‘Yes’, ‘No’);

Insert into album values(14, 7, ‘Act II’, 4.99,  date ‘2009-6-14’, ‘Yes’, ‘Yes’);

Insert into album values(15, 8, ‘Our Moms Think Were Cool’, 4.99,  date ‘2001-10-24’, ‘No’, ‘Yes’);

Insert into album values(16, 8, ‘Pick it up, no seriously’, 4.99,  date ‘2002-5-10’, ‘No’, ‘Yes’);

Insert into album values(17, 9, ‘Eyes Wide, Mouth Shut’, 4.99,  date ‘2006-8-26’, ‘Yes’, ‘Yes’);

Insert into album values(18, 9, ‘Gated Body’, 4.99,  date ‘2009-12-14’, ‘Yes’, ‘Yes’);

Insert into album values(19, 10, ‘Cop Rot’, 4.99,  date ‘1996-3-9’, ‘Yes’, ‘Yes’);

Insert into album values(20, 10, ‘Oi! Something Stinks...’, 4.99,  date ‘1998-11-12’, ‘Yes’, ‘Yes’);

Insert into merchandise values(1, 1, ‘Small’, 9.99, ‘Yes’);

Insert into merchandise values(2, 1, ‘Medium’, 9.99, ‘Yes’);

Insert into merchandise values(3, 1, ‘Large’, 9.99, ‘Yes’);

Insert into merchandise values(4, 2, ‘Small’, 8.99, ‘Yes’);

Insert into merchandise values(5, 2, ‘Medium’, 8.99, ‘Yes’);

Insert into merchandise values(6, 2, ‘Large’, 8.99, ‘Yes’);

Insert into merchandise values(7, 3, ‘Small’, 4.99, ‘Yes’);

Insert into merchandise values(8, 3, ‘Medium’, 4.99, ‘Yes’);

Insert into merchandise values(9, 3, ‘Large’, 4.99, ‘Yes’);

Insert into merchandise values(10, 4, ‘Small’, 14.99, ‘Yes’);

Insert into merchandise values(11, 4, ‘Medium’, 14.99, ‘Yes’);

Insert into merchandise values(12, 4, ‘Large’, 14.99, ‘Yes’);

Insert into merchandise values(13, 5, ‘Small’, 5.99, ‘Yes’);

Insert into merchandise values(14, 5, ‘Medium’, 5.99, ‘Yes’);

Insert into merchandise values(15, 5, ‘Large’, 5.99, ‘Yes’);

Insert into merchandise values(16, 6, ‘Small’, 9.99, ‘Yes’);

Insert into merchandise values(17, 6, ‘Medium’, 9.99, ‘Yes’);

Insert into merchandise values(18, 6, ‘Large’, 9.99, ‘Yes’);

Insert into merchandise values(19, 7, ‘Small’, 4.99, ‘Yes’);

Insert into merchandise values(20, 7, ‘Medium’, 4.99, ‘Yes’);

Insert into merchandise values(21, 7, ‘Large’, 4.99, ‘Yes’);

Insert into merchandise values(22, 8, ‘Small’, 19.99, ‘Yes’);

Insert into merchandise values(23, 8, ‘Medium’, 19.99, ‘Yes’);

Insert into merchandise values(24, 8, ‘Large’, 19.99, ‘Yes’);

Insert into merchandise values(25, 9, ‘Small’, 7.99, ‘Yes’);

Insert into merchandise values(26, 9, ‘Medium’, 7.99, ‘Yes’);

Insert into merchandise values(27, 9, ‘Large’, 7.99, ‘Yes’);

Insert into merchandise values(28, 10, ‘Small’, 5.99, ‘Yes’);

Insert into merchandise values(29, 10, ‘Medium’, 5.99, ‘Yes’);

Insert into merchandise values(30, 10, ‘Large’, 5.99, ‘Yes’);

Insert into sweat\_shirt values(10, ‘Yes’, ‘Yes’);

Insert into sweat\_shirt values(11, ‘Yes’, ‘Yes’);

Insert into sweat\_shirt values(12, ‘Yes’, ‘Yes’);

Insert into sweat\_shirt values(22, ‘No’, ‘No’);

Insert into sweat\_shirt values(23, ‘No’, ‘No’);

Insert into sweat\_shirt values(24, ‘No’, ‘No’);

Insert into shirt values(1, ‘Yes’, ‘Yes’);

Insert into shirt values(2, ‘Yes’, ‘Yes’);

Insert into shirt values(3, ‘Yes’, ‘Yes’);

Insert into shirt values(4, ‘Yes’, ‘No’);

Insert into shirt values(5, ‘Yes’, ‘No’);

Insert into shirt values(6, ‘Yes’, ‘No’);

Insert into shirt values(16, ‘No’, ‘Yes’);

Insert into shirt values(17, ‘No’, ‘Yes’);

Insert into shirt values(18, ‘No’, ‘Yes’);

Insert into shirt values(25, ‘No’, ‘No’);

Insert into shirt values(26, ‘No’, ‘No’);

Insert into shirt values(27, ‘No’, ‘No’);

Insert into hat values(7, ‘Dad Hat’, ‘Velcro’);

Insert into hat values(8, ‘Dad Hat’, ‘Velcro’);

Insert into hat values(9, ‘Dad Hat’, ‘Velcro’);

Insert into hat values(13, ‘Beanie’, ‘N/A’);

Insert into hat values(14, ‘Beanie’, ‘N/A’);

Insert into hat values(15, ‘Beanie’, ‘N/A’);

Insert into hat values(19, ‘Dad Hat’, ‘Velcro’);

Insert into hat values(20, ‘Dad Hat’, ‘Velcro’);

Insert into hat values(21, ‘Dad Hat’, ‘Velcro’);

Insert into hat values(28, ‘Trucker Hat’, ‘Plastic Strap’);

Insert into hat values(29, ‘Trucker Hat’, ‘Plastic Strap’);

Insert into hat values(30, ‘Trucker Hat’, ‘Plastic Strap’);

Insert into customer values(1, ‘Franklin’, 32, ‘Main Street’, ‘Logan’, ‘UT’, 34256, ‘Visa’);

Insert into customer values(2, ‘Sarah’, 21, ‘Park Street’, ‘Charlotte’, ‘GA’, 17253, ‘Discover’);

Insert into customer values(3, ‘Joe’, 25, ‘Second Street’, ‘Elizabeth’, ‘NJ’, 27834, ‘MasterCard’);

Insert into customer values(4, ‘Molly’, 24, ‘Third Street’, ‘Alexandria’, ‘VA’, 73421, ‘Visa’);

Insert into customer\_phone\_num values(1, ‘240-532-7654’);

Insert into customer\_phone\_num values(1, ‘240-532-4216’);

Insert into customer\_phone\_num values(2, ‘564-941-8543’);

Insert into customer\_phone\_num values(2, ‘564-941-9021’);

Insert into customer\_phone\_num values(3, ‘321-043-5572’);

Insert into customer\_phone\_num values(3, ‘321-043-8319’);

Insert into orders values(1, 1, 1);

Insert into orders values(2, 2, 2);

Insert into orders values(3, 2, 3);

Insert into orders values(4, 3, 4);

Insert into order\_product\_id values(2, 17);

Insert into order\_product\_id values(3, 26);

Insert into order\_product\_id values(3, 8);

Insert into order\_product\_id values(4, 23);

Insert into order\_album\_id values(1, 10);

Insert into order\_album\_id values(2, 12);

Insert into order\_album\_id values(4, 2);

Insert into order\_album\_id values(4, 19);

**Querying of Data**

1. Select distinct band\_name

From shirt, merchandise, band

Where band.band\_id = merchandise.band\_id

And merchandise.product\_id = shirt.s\_product\_id

And shirt.has\_sleeves = 'Yes';

1. Select count(\*)

from album, band

where album.band\_id = band.band\_id

and band.band\_name = 'DJ Milk';

1. Select distinct album\_price, count(\*)

From album

Group by album\_price;

1. Update album

set album\_price = album\_price - 1

where band\_id = 1;

1. Select count(album\_id) from album  where release\_date > date ‘2009-9-1’ and release\_date < date ‘2009-9-30’;
2. Select count(\*)

From album, band\_genre

Where album.band\_id = band\_genre.band\_id and release\_date < date ’2000-1-1’ and

           Genre = ‘Rap’;

1. Select  distinct band\_name

From album, band

Where album.band\_id = band.band\_id

And album.album\_price < 3;

1. Select band\_name, count(\*)  
   From band, album  
   Where album.band\_id = band.band\_id  
   Group by band\_name;
2. Update customer

Set street = ‘Roadway Dr.’, city = ‘Baltimore’, state = ‘MD’, zipcode = ‘21201’

Where customer.name = ‘Franklin’;

1. Select count(\*)

From band, album

Where album.band\_id = band.band\_id

And release\_date > date ’2005-1-1’;