You need to write at least 8 serious SQL select queries and 2 update statements. A “select \* from table-name” type of query does not count. At least 4 of the queries should have joins. At least 2 of them should use group by.

Join- Display the names of all the bands that sell shirts with sleeves

Join- Count number of albums the band “DJ Milk” released

Group by- Group by count of albums for sale at album\_price

Update- The band “DJ Milk” has a sale and reduces the price of all of their albums by $1

Select- # Albums released in September 2009

1. Select distinct band\_name

From shirt, merchandise, band

Where band.band\_id = .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;

4. Update album

set album\_price = album\_price - 1

where band\_id = 1;

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

1. Join - number of albums released before 2000 that have the “Rap” genre
2. Join - list band\_name of bands that sell albums for under $3
3. Group by - return number of albums released by each band
4. Update - update customer address
5. Select - count of albums in the system since 2005
6. 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’;

**Notes to Sam and Jackson:**

**We need the following to be true for the data you put in**

Have dates before 2000’s and after 2005

Have customer with name Franklin

Make sure the multivalued attributes have more than one value.

* For example: Customer’s Phone\_num attribute should have more than one phone number listed for each customer. (like 2)

Oracle SQL doesn’t support booleans, so the booleans are just strings, put ‘No’ for False and ‘Yes’ for True

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Code:

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)

);

**INSERT CODE**

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);

select \* from band;

select \* from band\_genre;

select \* from album;

select \* from merchandise;

select \* from sweat\_shirt;

select \* from shirt;

select \* from hat;

select \* from customer;

select \* from customer\_phone\_num;

select \* from orders;

select \* from order\_product\_id;

select \* from order\_album\_id;