**SQL LAB-2**

**(Joins, Subquery and View)**

**Please use sakila database tables for below queries.**

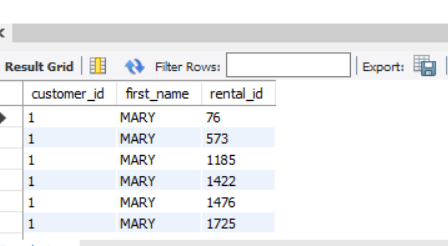
1. For each customer who has rented a movie, give customer name, customer\_id and rental\_id. Write Equi-Join, Natural join and Inner join queries for same.

**Solution:**

Equi-join:

select cust.customer\_id,cust.first\_name, rent.rental\_id from customer cust, rental rent

where cust.customer\_id = rent.customer\_id;

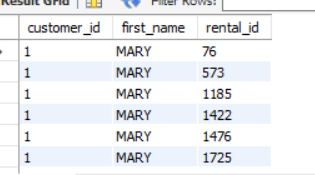


Natural Join:

select cust.customer\_id,cust.first\_name, rent.rental\_id from customer cust natural join rental rent;

Inner Join:

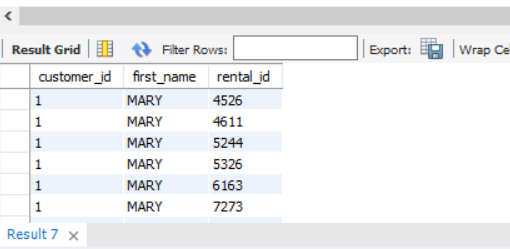
select cust.customer\_id,cust.first\_name, rent.rental\_id from customer cust inner join rental rent on cust.customer\_id = rent.customer\_id;



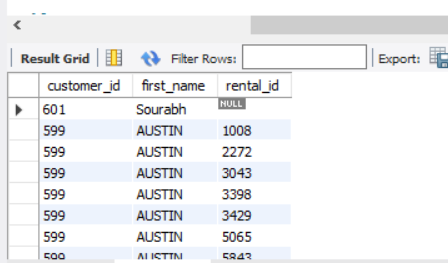
1. List the customer\_name, ID and rental\_id for all customers. Include those customers also who have not rented any movies.

**Solution:**

select cust.customer\_id,cust.first\_name, rent.rental\_id from customer cust left outer join rental rent on cust.customer\_id = rent.customer\_id;



Result set sorted by customer id descending.

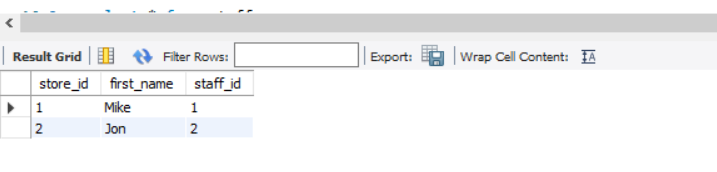


1. List out store\_name, store\_id, staff\_name and staff\_id. Include all staff information irrespective store.

**Solution:**

select store.store\_id,staff.first\_name,staff.staff\_id from staff, store

where staff.store\_id = store.store\_id;



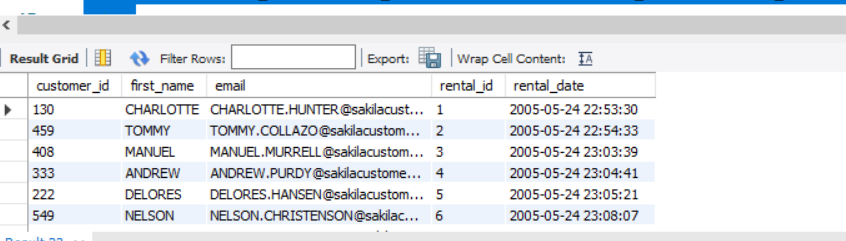
1. List customer\_name, customer\_id, email, rental\_id and rental\_date. Result should include all customers and rental information.

**Solution:**

select cust.customer\_id,cust.first\_name,cust.email, rent.rental\_id, rent.rental\_date from customer cust left outer join rental rent on cust.customer\_id = rent.customer\_id

union

select cust.customer\_id,cust.first\_name,cust.email, rent.rental\_id, rent.rental\_date from customer cust right outer join rental rent on cust.customer\_id = rent.customer\_id;



1. List customer\_name, customer\_id, address, rental\_id, rental\_date and store\_id information.

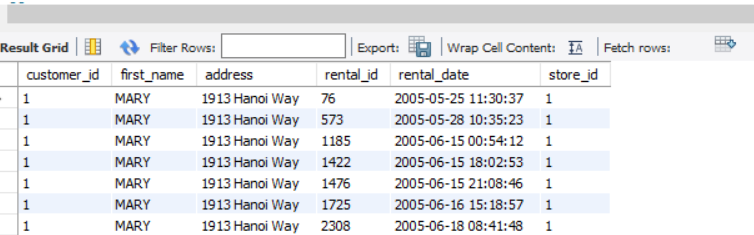
**Solution:**

select cust.customer\_id,cust.first\_name,ad.address, rent.rental\_id, rent.rental\_date, store.store\_id from customer cust, rental rent, store ,address ad

where cust.customer\_id = rent.customer\_id

and cust.store\_id = store.store\_id

and cust.address\_id = ad.address\_id;



1. Assemble all necessary customer and rental and related store information whose customer\_id =374

**Solution:**

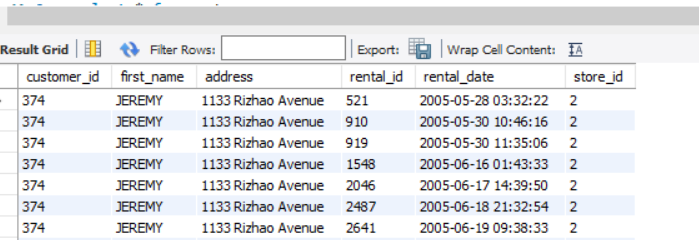
select cust.customer\_id,cust.first\_name,ad.address, rent.rental\_id, rent.rental\_date, store.store\_id from customer cust, rental rent, store ,address ad

where cust.customer\_id = rent.customer\_id

and cust.store\_id = store.store\_id

and cust.address\_id = ad.address\_id

and cust.customer\_id =374;

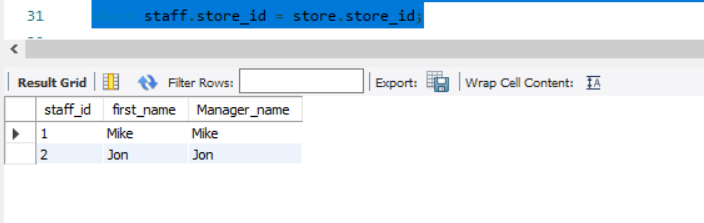


1. List out staff\_id and name of each staff and name of their managers.

**Solution:**

select staff.staff\_id,staff.first\_name,(select staff\_i.first\_name from staff staff\_i where staff\_i.staff\_id= store.manager\_staff\_id) Manager\_name from staff, store

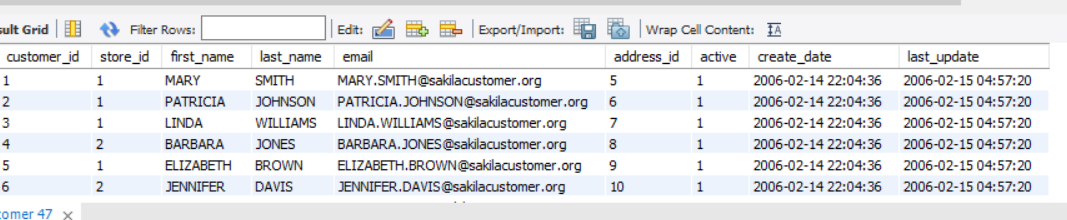
where staff.store\_id = store.store\_id;



1. List out all customers who have rented the movie.

**Solution:**

select \* from customer where customer\_id in (select customer\_id from rental);



1. Create view called “v\_film” and include title, descr, release\_year and actor\_name where rating = ‘G’

**Solution:**

create view v\_film as

select title,description,release\_year,actor.first\_name from film, actor , film\_actor fa

where film.film\_id = fa.film\_id

and actor.actor\_id = fa.actor\_id

and film.rating = 'G'

order by title;

select \* from v\_film;

