

SQL Query assignment 1

1. Find out the PG-13 rated comedy movies. DO NOT use the film_list table.

Sol. mysql> SELECT title,rating from film

-> WHERE

-> rating = 'PG-13'

-> &&

-> film_id IN

-> (SELECT film_id from film_category

-> WHERE

-> category_id IN

-> (SELECT category_id FROM Category

-> WHERE

-> name = 'Comedy')

->);

2. Find out the top 3 rented horror movies.

1. mysql> CREATE VIEW view1

-> AS

-> SELECT film.film_id,title from film

-> WHERE

-> film_id IN

-> (SELECT film_id from Inventory

-> WHERE

-> inventory_id IN

-> (SELECT inventory_id from rental LIMIT 3)

->);

2. mysql> CREATE VIEW view2

-> AS

-> SELECT film_id from film

-> WHERE

-> film_id IN

-> (SELECT film_id from film_category

-> WHERE category_id

```
-> IN
-> (SELECT category_id from Category WHERE name =
'horror')
-> );
3. mysql> SELECT title FROM view1
-> INNER JOIN
-> view2
-> ON
-> view1.film_id = view2.film_id;
```

3. Find out the list of customers from India who have rented sports movies.

Sol.

1. mysql> CREATE VIEW view3

```
-> AS
-> SELECT Id,name,country FROM Customer_List
-> WHERE
-> Country = 'India';
```

2. mysql> CREATE VIEW view4

```
-> AS
-> SELECT name,country,inventory_id from
-> view3
-> INNER JOIN
-> Rental
-> ON
-> view3.Id = Rental.customer_id;
```

3. mysql> CREATE VIEW view5

-> AS

-> SELECT name,country,film_id FROM

-> view4

-> INNER JOIN

-> Inventory

-> ON

-> view4.inventory_id = Inventory.inventory_id;

4.-mysql> SELECT DISTINCT(name),country from view5

-> WHERE

-> film_id IN

-> (SELECT FID FROM Film_List WHERE category = 'sports');

Q.4 Find out the list of customers from Canada who have rented “NICK WAHLBERG” movies.

Sol.

1. mysql> CREATE VIEW canadaCust

-> AS

-> SELECT Id,name,country FROM Customer_List

-> WHERE

-> country = 'Canada';

2. mysql> CREATE VIEW canadaRental

-> AS

-> SELECT name,country,inventory_id FROM

```
-> canadaCust
-> INNER JOIN
-> Rental
-> ON
-> Rental.customer_id = canadaCust.Id;
```

```
3. mysql> CREATE VIEW canadaInventory
-> AS
-> SELECT name,country,film_id FROM
-> CanadaRental
-> INNER JOIN
-> Inventory
-> ON
-> CanadaRental.inventory_id = Inventory.inventory_id;
```

```
4. mysql> CREATE VIEW canadaFilm_Actor
-> AS
-> SELECT name,country,actor_id FROM
-> CanadaInventory
-> INNER JOIN
-> film_actor
-> ON
-> CanadaInventory.film_id = film_actor.film_id;
```

```
5. mysql> SELECT DISTINCT(name),country FROM canadaFilm_Actor
-> WHERE
-> actor_id IN
-> (SELECT actor_id From Actor WHERE first_name = 'NICK' &&
last_name = 'WAHLBERG');
```

Q.5 Find out the number of movies in which “SEAN WILLIAMS” acted.

Sol.

```
mysql> SELECT COUNT(*) FROM Film_Actor as fa, Actor as a, Film as f
```

```
-> WHERE
```

```
-> fa.actor_id = a.actor_id
```

```
-> &&
```

```
-> fa.film_id = f.film_id
```

```
-> &&
```

```
-> a.first_name = 'SEAN'
```

```
-> &&
```

```
-> a.last_name = 'WILLIAMS';
```