NAME: FATEMA TABASSUM LIZA

1.

Query:

SELECT length FROM movies WHERE Rating='G';

Result:

```
mysql> SELECT length FROM movies WHERE Rating='G';
+----+
| length |
+----+
| 85 |
+----+
1 row in set (0.01 sec)
```

3.

Query:

SELECT theaters.Phone, districts.Name FROM theaters, theaters2districts, districts WHERE theaters2districts.DistrictCode = districts.DistrictCode AND theaters2districts.TheaterCode = theaters.TheaterCode AND theaters.Name = 'Boeing Imax Theater';

Result:

+	++ Name	
(206) 443-4629 (206) 443-4629 (206) 443-4629	THE U DISTRICT	
3 rows in set (0.00 sec)		

5. Query:

SELECT movies.Title, movies.Length, movies2theaters.MovieTime FROM ((theaters INNER JOIN movies2theaters ON theaters.TheaterCode = movies2theaters.TheaterCode) INNER JOIN movies ON movies.MovieCode = movies2theaters.MovieCode) WHERE theaters.Name = 'Cineplex Odeon Uptown';

Result:

Title	Length	MovieTime
Barenaked in America	 89	10/20/2000 14:30:00
Barenaked in America	89	10/20/2000 19:20:00
Barenaked in America	89	10/20/2000 21:30:00
Chicken Run	85	10/20/2000 17:30:00
Human Resources	100	10/20/2000 14:15:00
Human Resources	100	10/20/2000 16:30:00
Human Resources	100	10/20/2000 19:00:00
Human Resources	100	10/20/2000 21:15:00
One	102	10/20/2000 14:00:00
One	102	10/20/2000 16:15:00
One	102	10/20/2000 18:30:00
One	102	10/20/2000 20:45:00

12 rows in set (0.00 sec)

8. Query:

SELECT districts.Name, COUNT(*) FROM districts, theaters2districts WHERE districts.DistrictCode = theaters2districts.DistrictCode AND theaters2districts.TheaterCode IN (SELECT DISTINCT movies2theaters.TheaterCode FROM movies2theaters WHERE movies2theaters.MovieCode IN

(SELECT DISTINCT movies.MovieCode FROM movies WHERE movies.Title = 'Chicken Run' OR movies.Rating = 'PG'))
GROUP BY (districts.Name)
HAVING COUNT(*) > 2;

Result:

+	· · · ,
Name	COUNT(*)
+	+
CAPITOL HILL	4
DOWNTOWN	4
THE U DISTRICT	5
+	+
3 rows in set (0.0	00 sec)

9. Query:

SELECT Title, AVG(Length) FROM movies JOIN movies2theaters ON movies.MovieCode = movies2theaters.MovieCode WHERE movies2theaters.TheaterCode IN (
SELECT TheaterCode from theaters WHERE Name = 'Landmark Neptune Theatre');

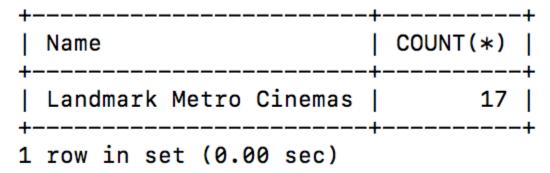
Result:

•	AVG(Length)
Best in Show	90.0000
1 row in set (0.	•

10. Query:

SELECT theaters.Name, COUNT(*) FROM theaters JOIN movies2theaters ON theaters.TheaterCode = movies2theaters.TheaterCode WHERE theaters.Name = 'Landmark Metro Cinemas' AND movies2theaters.MovieCode IN (SELECT MovieCode FROM movies WHERE Length < 120);

Result:



11. Query:

SELECT DISTINCT theaters.Name, theaters.Address from theaters JOIN theaters2districts ON theaters.TheaterCode = theaters2districts.TheaterCode WHERE theaters2districts.TheaterCode IN (SELECT TheaterCode FROM movies2theaters GROUP BY TheaterCode HAVING COUNT(DISTINCT MovieCode) < 5);

Result:

Name	Address
Cineplex Odeon City Centre Cineplex Odeon Uptown Landmark Varsity Theatre Landmark Seven Gables Theatre Landmark Neptune Theatre Landmark Harvard Exit Theatre Landmark Guild 45th Landmark Broadway Market Cinemas General Cinema Cinerama Cineplex Odeon Northgate	1420 Fifth Avenue, Suite 375 Seattle, WA 98101 511 Queen Anne Avenue North Seattle, WA 98109 4329 University Way, NE Seattle, WA 98105 911 NE 50th Seattle, WA 98105 1303 NE 45th Seattle, WA 98105 807 E.Roy Seattle, WA 98102 2115 N. 45th Seattle, WA 98103 425 Broadway East Seattle, WA 98102 2100 4th Avenue Seattle, WA 98121 10 Northgate Plaza Seattle, WA 98125

10 rows in set (0.00 sec)

12. Query:

SELECT DISTINCT theaters.Name, theaters.Phone, COUNT(DISTINCT movies2theaters.MovieCode) AS MovieCount from ((theaters JOIN theaters2districts ON theaters.TheaterCode = theaters2districts.TheaterCode) JOIN movies2theaters ON movies2theaters.TheaterCode = theaters2districts.TheaterCode) GROUP BY theaters.Name HAVING COUNT(DISTINCT movies2theaters.MovieCode) < 5 ORDER BY MovieCount DESC;

Result:

+	+	
Name	Phone	MovieCount
Cineplex Odeon Uptown Landmark Harvard Exit Theatre Landmark Guild 45th Cineplex Odeon City Centre	(206) 285-1022 (206) 323-8986 (206) 633-3353 (206) 622-6465	4 2 2
Landmark Broadway Market Cinemas Landmark Varsity Theatre Cineplex Odeon Northgate Landmark Seven Gables Theatre General Cinema Cinerama	(206) 323-0231 (206) 632-3131 (206) 363-5800 (206) 632-8820 (206) 441-3080	2 2 1 1
Landmark Neptune Theatre	(206) 633-5545	1
+	+	+

10 rows in set (0.01 sec)

13. Query:

SELECT theaters.Name, theaters.Phone FROM ((theaters JOIN theaters2districts ON theaters.TheaterCode = theaters2districts.TheaterCode)

JOIN districts ON districts.DistrictCode = theaters2districts.DistrictCode)

WHERE districts.Name = 'CAPITOL HILL' AND theaters2districts.TheaterCode IN (
SELECT DISTINCT M.TheaterCode FROM movies2theaters AS M WHERE

SELECT DISTINCT M.TheaterCode FROM movies2theaters AS M WHERE M.MovieCode IN (SELECT MovieCode FROM movies WHERE Rating = 'R' AND Length = (SELECT MAX(Length) FROM movies WHERE Rating = 'R'))

) ORDER BY theaters. Name;

Result:

+	++
Name	Phone
Cineplex Odeon Meridian Landmark Metro Cinemas	(206) 223-9600 (206) 633-0055
2 rows in set (0.00 sec)	++

BONUS

16. Query:

CREATE TABLE query16 (Title VARCHAR (20), Length INT, MovieTime DATETIME);

INSERT INTO query16 VALUES('Barenaked in America', 89, '2000-10-20 14:30:00'); INSERT INTO query16 VALUES('Barenaked in America', 89, '2000-10-20 19:20:00'); INSERT INTO query16 VALUES('Barenaked in America', 89, '2000-10-20 21:30:00'); INSERT INTO query16 VALUES('Chicken Run', 85, '2000-10-20 17:30:00'); INSERT INTO query16 VALUES('Human Resources', 100, '2000-10-20 14:15:00'); INSERT INTO query16 VALUES('Human Resources', 100, '2000-10-20 16:30:00');

```
INSERT INTO query16 VALUES('Human Resources', 100, '2000-10-20 19:00:00'); INSERT INTO query16 VALUES('Human Resources', 100, '2000-10-20 21:15:00'); INSERT INTO query16 VALUES('ONE', 102, '2000-10-20 14:00:00'); INSERT INTO query16 VALUES('ONE', 102, '2000-10-20 16:15:00'); INSERT INTO query16 VALUES('ONE', 102, '2000-10-20 18:30:00'); INSERT INTO query16 VALUES('ONE', 102, '2000-10-20 20:45:00');
```

ALTER TABLE query16 ADD 'want to see' BOOLEAN;

17. Query

CREATE TABLE query17 AS SELECT * FROM query16;

UPDATE query17 SET `want to see` = TRUE WHERE Title LIKE '%The%';

UPDATE query17 SET 'want to see' = FALSE WHERE Title NOT LIKE '%The%';

Though (6 mating = 'G' (movies))

3) Anso

Heaters.phone, (Gheater.Name = Boeing Imax Theater (Theaters districts.phone

theaters2district

districts)

6) Ans:

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