Jarod Klion

Assignment 1

1. SELECT length from movies where Rating='G';

+--------+

| length |

+--------+

| 85 |

+--------+

1. πlength(σrating=’G’ (movies))
2. SELECT DISTINCT Phone, districts.Name

FROM theaters, theaters2districts, districts

WHERE theaters.name = 'Boeing Imax Theater';

+-------------------+------------------------+

| Phone | Name |

+-------------------+------------------------+

| (206) 443-4629 | CAPITOL HILL |

| (206) 443-4629 | THE U DISTRICT |

| (206) 443-4629 | DOWNTOWN |

+-------------------+-------------------------+

1. δ(πPhone, Name(districts⋈DistrictCode=DistrictCode(theaters2districts⋈TheaterCode=TheaterCode (σName=’Boeing Imax Theater’(theaters))))
2. SELECT title, length, movietime

FROM movies2theaters

JOIN movies ON movies.MovieCode = movies2theaters.MovieCode

JOIN theaters ON theaters.TheaterCode = movies2theaters.TheaterCode

WHERE theaters.name='Cineplex Odeon Uptown';

+---------------------------+--------+--------------------------+

| 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 |

+----------------------------+--------+--------------------------+

1. πtitle,length,movietime(movies⋈MovieCode=MovieCode(movies2theaters⋈TheaterCode=TheaterCode(σName='Cineplex Odeon Uptown' (theaters))))

title,length,movietime

MovieCode=MovieCode

Movies

TheaterCode=TheaterCode

Name='Cineplex Odeon Uptown'

Theaters

Movies2Theaters

1. SELECT DISTINCT districts.Name

FROM movies, districts, movies2theaters, theaters2districts

WHERE Title ='Chicken Run' OR Rating='PG'

HAVING count(DISTINCT theaters2districts.TheaterCode) >=2;

+---------------------+

| Name |

+---------------------+

| CAPITOL HILL |

+---------------------+

1. SELECT avg(length)

FROM movies as M, movies2theaters as MT, theaters as T

WHERE M.moviecode = MT.moviecode

AND T.theatercode = MT.theatercode

AND T.name = 'Landmark Neptune Theatre';

+-------------+

| avg(length)|

+-------------+

| 90.0000 |

+-------------+

1. SELECT count(\*)

FROM movies as M, theaters as T, movies2theaters as MT

WHERE M.moviecode=MT.moviecode

AND T.theatercode=MT.theatercode

AND M.length < 120

AND T.name='Landmark Metro Cinemas';

+----------+

| count(\*)|

+----------+

| 17 |

+----------+

1. SELECT t.Name,

t.Address

FROM theaters t

WHERE (

Select Count(distinct mv.MovieCode)

From movies2theaters mv

Where mv.TheaterCode = t.TheaterCode) < 5);

+--------------------------------+------------------------------------------------+  
|Name |Address |  
+--------------------------------+------------------------------------------------+  
|Cineplex Odeon City Centre |1420 Fifth Avenue, Suite 375 | Seattle, WA 98101|  
|Cineplex Odeon Northgate |10 Northgate Plaza | Seattle, WA 98125 |  
|Cineplex Odeon Uptown |511 Queen Anne Avenue North | Seattle, WA 98109 |  
|Landmark Varsity Theatre |4329 University Way, NE | Seattle, WA 98105 |  
|Landmark Seven Gables Theatre |911 NE 50th | Seattle, WA 98105 |  
|Landmark Neptune Theatre |1303 NE 45th | Seattle, WA 98105 |  
|Landmark Harvard Exit Theatre |807 E.Roy | Seattle, WA 98102 |  
|Landmark Guild 45th |2115 N. 45th | Seattle, WA 98103 |  
|Landmark Egyptian Theatre |801 E. Pine Street | Seattle, WA 98105 |  
|Landmark Broadway Market Cinemas|425 Broadway East | Seattle, WA 98102 |  
+--------------------------------+------------------------------------------------+

1. SELECT t.Name,  
    t.Phone,  
    (SELECT COUNT(DISTINCT mv.MovieCode)  
    FROM movies2theaters mv  
    WHERE mv.TheaterCode = t.TheaterCode) as Count  
   FROM theaters t  
   WHERE (  
    SELECT COUNT(DISTINCT mv.MovieCode)  
    FROM movies2theaters mv  
    WHERE mv.TheaterCode = t.TheaterCode) < 5  
   ORDER BY Count DESC

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

1. SELECT DISTINCT t.Name,  
    t.Phone  
   FROM theaters t  
   JOIN theaters2districts t2d ON t.TheaterCode = t2d.TheaterCode  
   JOIN districts d ON t2d.DistrictCode = d.DistrictCode  
   JOIN movies2theaters m2t ON t.TheaterCode = m2t.TheaterCode  
   JOIN movies m ON m2t.MovieCode = m.MovieCode  
   WHERE d.DistrictCode = 'DistrictCode-0010'  
   AND m.MovieCode = (  
    SELECT m2.MovieCode  
    FROM movies m2  
    WHERE Rating = 'R'  
    ORDER BY m2.Length DESC  
    LIMIT 1  
   )

ORDER BY t.Name ASC

+-----------------------+--------------+  
|Name |Phone |  
+-----------------------+--------------+  
|Cineplex Odeon Meridian|(206) 223-9600|  
|Landmark Metro Cinemas |(206) 633-0055|  
+-----------------------+--------------+

1. δ(πaddress,phone(theaters⋈TheaterCode=TheaterCode(movies2theaters⋈MovieCode=MovieCode σtitle=’Frozen’(Movies))))

address, phone

TheaterCode=TheaterCode

Theaters

MovieCode=MovieCode

Title='Frozen'

Movies

Movies2Theaters

1. CREATE TABLE jak17d.query16

AS

SELECT title, length, movietime

FROM film.movies2theaters

JOIN film.movies ON movies.MovieCode = movies2theaters.MovieCode

JOIN film.theaters ON theaters.TheaterCode = movies2theaters.TheaterCode

WHERE theaters.name = 'Cineplex Odeon Uptown'

ALTER TABLE jak17d.query16

ADD ‘want to see’ tinyint(1) NULL;

1. CREATE TABLE jak17d.query17

AS

SELECT \*

FROM query16

UPDATE jak17d.query17

SET `want to see` = IF(title LIKE '%The%', TRUE, FALSE)