|  |
| --- |
|  |
|  |  |
|  | create table films( |
|  | id int primary key auto\_increment, |
|  | name varchar(45) not null unique, |
|  | length\_min int not null |
|  | ); |
|  |  |
|  | show tables; |
|  | desc bookings; |
|  | create table customers( |
|  | id int primary key auto\_increment, |
|  | first\_name varchar(45), |
|  | last\_name varchar(45) not null, |
|  | email varchar(45) not null unique |
|  | ); |
|  |  |
|  | desc customers; |
|  |  |
|  | create table rooms( |
|  | id int primary key auto\_increment, |
|  | name varchar(45) not null, |
|  | no\_seats int not null |
|  | ); |
|  |  |
|  | create table screenings( |
|  | id int primary key auto\_increment, |
|  | film\_id int not null, |
|  | room\_id int not null, |
|  | start\_time datetime not null, |
|  | foreign key(film\_id) references films(id), |
|  | foreign key(room\_id) references rooms(id) |
|  | ); |
|  |  |
|  | desc screenings; |
|  |  |
|  | create table seats( |
|  | id int primary key auto\_increment, |
|  | row\_char CHAR(1) not null, |
|  | number int not null, |
|  | room\_id int not null, |
|  | foreign key(room\_id) references rooms(id) |
|  | ); |
|  |  |
|  | desc seats; |
|  |  |
|  | create table bookings( |
|  | id int primary key auto\_increment, |
|  | screening\_id int not null, |
|  | customer\_id int not null, |
|  | foreign key(screening\_id) references screenings(id), |
|  | foreign key(customer\_id) references customers(id) |
|  | ); |
|  |  |
|  | desc bookings; |
|  |  |
|  | create table reserved\_seat( |
|  | id int primary key auto\_increment, |
|  | booking\_id int not null, |
|  | seat\_id int not null, |
|  | foreign key(booking\_id) references bookings(id), |
|  | foreign key(seat\_id) references seats(id) |
|  | ); |
|  |  |
|  | desc reserved\_seat; |
|  |  |
|  | INSERT INTO films (name, length\_min) |
|  | VALUES ('Blade Runner 2049',153), |
|  | ('Dunkirk',106), |
|  | ('Geostorm',121), |
|  | ('Thor: Ragnarok',107), |
|  | ('Jigsaw',116), |
|  | ('The Death of Stalin',98), |
|  | ('The Lego Ninjago Movie',101), |
|  | ('Murder on the Orient Express',135), |
|  | ('Paddington 2',88), |
|  | ('Breathe',117), |
|  | ('Blade Runner',127), |
|  | ('Victoria and Abdul',112); |
|  |  |
|  | INSERT INTO customers (first\_name, last\_name, email) |
|  | VALUES ('David','May','dmay@gmail.com'),('Theresa','Davis','tdavis@gmail.com'),('Jerry','Martin','jermar@gmail.com'),('John','Smith','smithy@gmail.com'), |
|  | ('Martin','Watkins','mwatto@gmail.com'),('Emma','Watson','itswingardiumleviosa@gmail.com'),('Javier','Pastore','jp@gmail.com'),('Charlotte','Hare','chare@gmail.com'), |
|  | ('Mark','Smith','markysmith@gmail.com'),('Emily','Thorne','ethorne@gmail.com'),('David','Paul','davpaul@gmail.com'),('Cherry','Wang','cherryw@gmail.com'), |
|  | ('Bort','Simpson','mynameisbort@gmail.com'),('Emma','Connor','econ@gmail.com'),('Jonathan','Edwards','jedwards@gmail.com'),('Simon','Davis','sdavis@gmail.com'), |
|  | ('Sophie','Marshall','sophmarsh@gmail.com'),('Sally','Lam','slam@gmail.com'),('Kenneth','Harrison','kson@gmail.com'),(NULL,'Smith','smith@gmail.com'), |
|  | ('Harry','Weasley','whatsmyname@gmail.com'),('Ron','Potter','thatsmyname@gmail.com'),('Ray','Wilkinson','wilky@gmail.com'),('Samuel','Windsor','royalty@gmail.com'), |
|  | ('Jennifer','David','jda@gmail.com'),('Larry','Davis','larryd@gmail.com'),('Bolt','Tin','btin@gmail.com'),('Sarah','Thompson','sthompson1977@gmail.com'), |
|  | ('Alan','Bennet','thosewerethedays@gmail.com'),('Brian','Apple','bapple101@gmail.com'),('Rob','Bryson','rbry@gmail.com'),('Shelly','Zu','szu@gmail.com'), |
|  | ('Steve','Shoogan','sshoogan@gmail.com'),('Matthew','Gray','graym@gmail.com'),('Sally','Kramer','kallysramer@gmail.com'),('Peter','Chef','chefp@gmail.com'), |
|  | (NULL,'Cooke','nullcooke@gmail.com'),('Marty','Seinfeld','marfeld@gmail.com'),('Carl','Green','creen@gmail.com'),('Emma','Greene','egreene@gmail.com'), |
|  | ('Michael','Bannon','mbannon@gmail.com'),('Paul','Showman','theshowman1@gmail.com'),('Harry','Goldthistle','hgold@gmail.com'),('Gill','Newton','gnew@gmail.com'), |
|  | ('Preston','Peters','p2p@gmail.com'),('Simon','Smithson','sismithson@gmail.com'),('Benjamin','Rabbit','brabbit@gmail.com'),('Jerry','David','curb@gmail.com'), |
|  | ('Olivia','Tulip','otulip@gmail.com'),('Richard','Horne','richhorne@gmail.com'),('Betty','Corbe','bcorbe@gmail.com'),('Anne','Callaway','acway@gmail.com'), |
|  | ('Yifan','Way','yway@gmail.com'),('Charlie','Cheene','ccheene@gmail.com'),('Ula','Boon','uboon@gmail.com'),('Buster','David','bdavid@gmail.com'), |
|  | ('Dustin','Beer','beerd@gmail.com'),('John','Sleet','knoweverything@gmail.com'),('August','Summer','asummer@gmail.com'),('Linda','Martins','lmart@gmail.com'), |
|  | ('Chris','Kay','chkay@gmail.com'),('Christopher','Roberts','croberts@gmail.com'),('Robert','Winston','rwin@gmail.com'),('Daniel','Orbe','dorbe@gmail.com'), |
|  | ('Joshua','Wells','wellj@gmail.com'),('Fred','Flinton','ff100@gmail.com'),('Paula','Winner','pwinner@gmail.com'),(NULL,'Canter','canter99@gmail.com'), |
|  | ('Michael','Bassett','mbass@gmail.com'),('Michelle','Martins','mm109@gmail.com'),('Lorna','Brown','lbrown@gmail.com'),('Kerry','Vale','wish1985@gmail.com'), |
|  | ('Sean','Borne','sborne@gmail.com'),('Craig','Evans','cevans@gmail.com'),('Alex','Sanders','asand@gmail.com'),('George','McNabb','gnabb@gmail.com'), |
|  | ('Richard','Trout','redtrout@gmail.com'),('Stewart','Dee','sdee@gmail.com'),('Sue','Werkins','swerkins@gmail.com'),('Mel','Wozniack','mwoz@gmail.com'), |
|  | ('Steve','Dole','sdole@gmail.com'),('Zara','Yelland','zy27@gmail.com'),('Irene','Mellon','mellonirene@gmail.com'),('Karen','Wall','kwall@gmail.com'), |
|  | ('Lucy','Oak','loak@gmail.com'),('Orson','Young','oyoung@gmail.com'),('Oliver','Daniels','odaniels@gmail.com'),('Queen','Bee','qbee@gmail.com'), |
|  | ('Vera','Jack','verajack@gmail.com'),('Thomas','Soft','softt@gmail.com'),(NULL,'Blair','nblair@gmail.com'),('Tim','Jones','tjones@gmail.com'), |
|  | ('Nicola','Jenkins','njenk@gmail.com'),('Olivia','Jones','ojo@gmail.com'),('James','Depp','jdepp@gmail.com'),('Meryl','Steep','msteep@gmail.com'), |
|  | ('Jake','Portman','jportman@gmail.com'),('Jenny','Appleton','japple@gmail.com'),('Simon','Hoover','shoover@gmail.com'),('Belinda','Marshall','belindam@gmail.com'), |
|  | ('Stephanie','Watson','swatson@gmail.com'),('Art','Simons','simons@gmail.com'),('Stan','Smith','smithstan@gmail.com'),('Christopher','Roberts','robertsc@gmail.com'), |
|  | ('Nathan','Gold','engold@gmail.com'),('Alain','Bennet','alainb@gmail.com'),('Lewis','Russelton','lrus@gmail.com'),('Josh','Reynolds','jrey@gmail.com'), |
|  | ('William','Williams','williamw@gmail.com'),(NULL,'Pointer','apointer@gmail.com'),('Bort','Skinner','mynameisalsobort@gmail.com'),(NULL,'Smith','lonsmith@gmail.com'), |
|  | ('Susan','Williams','swill@gmail.com'),('Yu','Xi','yuxi@gmail.com'),('Annabelle','Winks','anwinks@gmail.com'),('Andrew','Landhurst','andylandy@gmail.com'), |
|  | ('Winston','Smith','room101@gmail.com'),('Gemma','Arton','garton@gmail.com'),('Renton','McDonald','rent@gmail.com'),('Maggie','Chu','chuchu@gmail.com'); |
|  |  |
|  | INSERT INTO rooms (name, no\_seats) |
|  | VALUES ('Chaplin',72), |
|  | ('Kubrick',36), |
|  | ('Coppola',36); |
|  |  |
|  | INSERT INTO screenings (film\_id, room\_id, start\_time) |
|  | VALUES (2,1,'2017-10-01 13:00:00'),(1,2,'2017-10-01 13:30:00'),(2,3,'2017-10-01 14:00:00'), |
|  | (3,1,'2017-10-01 16:00:00'),(6,2,'2017-10-01 16:30:00'),(3,3,'2017-10-01 17:00:00'), |
|  | (4,1,'2017-10-01 19:00:00'),(6,2,'2017-10-01 19:30:00'),(4,3,'2017-10-01 20:00:00'), |
|  | (1,1,'2017-10-02 16:00:00'),(4,2,'2017-10-02 16:30:00'),(5,3,'2017-10-02 17:00:00'), |
|  | (2,1,'2017-10-02 19:00:00'),(1,2,'2017-10-02 19:30:00'),(1,3,'2017-10-02 20:00:00'), |
|  | (5,1,'2017-10-03 16:00:00'),(3,2,'2017-10-03 16:30:00'),(2,3,'2017-10-03 17:00:00'), |
|  | (1,1,'2017-10-03 19:00:00'),(2,2,'2017-10-03 19:30:00'),(3,3,'2017-10-03 20:00:00'), |
|  | (3,1,'2017-10-04 16:00:00'),(1,2,'2017-10-04 16:30:00'),(4,3,'2017-10-04 17:00:00'), |
|  | (2,1,'2017-10-04 19:00:00'),(1,2,'2017-10-04 19:30:00'),(5,3,'2017-10-04 20:00:00'), |
|  | (3,1,'2017-10-05 16:00:00'),(4,2,'2017-10-05 16:30:00'),(6,3,'2017-10-05 17:00:00'), |
|  | (2,1,'2017-10-05 19:00:00'),(6,2,'2017-10-05 19:30:00'),(3,3,'2017-10-05 20:00:00'), |
|  | (1,1,'2017-10-06 16:00:00'),(5,2,'2017-10-06 16:30:00'),(2,3,'2017-10-06 17:00:00'), |
|  | (4,1,'2017-10-06 19:00:00'),(2,2,'2017-10-06 19:30:00'),(4,3,'2017-10-06 20:00:00'), |
|  | (2,1,'2017-10-07 13:00:00'),(1,2,'2017-10-07 13:30:00'),(2,3,'2017-10-07 14:00:00'), |
|  | (3,1,'2017-10-07 16:00:00'),(1,2,'2017-10-07 16:30:00'),(1,3,'2017-10-07 17:00:00'), |
|  | (3,1,'2017-10-07 19:00:00'),(2,2,'2017-10-07 19:30:00'),(1,3,'2017-10-07 20:00:00'), |
|  | (7,1,'2017-10-08 13:00:00'),(1,2,'2017-10-08 13:30:00'),(1,3,'2017-10-08 14:00:00'), |
|  | (7,1,'2017-10-08 16:00:00'),(3,2,'2017-10-08 16:30:00'),(2,3,'2017-10-08 17:00:00'), |
|  | (2,1,'2017-10-08 19:00:00'),(5,2,'2017-10-08 19:30:00'),(7,3,'2017-10-08 20:00:00'), |
|  | (1,1,'2017-10-09 16:00:00'),(7,2,'2017-10-09 16:30:00'),(8,3,'2017-10-09 17:00:00'), |
|  | (3,1,'2017-10-09 19:00:00'),(8,2,'2017-10-09 19:30:00'),(9,3,'2017-10-09 20:00:00'), |
|  | (1,1,'2017-10-10 16:00:00'),(6,2,'2017-10-10 16:30:00'),(6,3,'2017-10-10 17:00:00'), |
|  | (3,1,'2017-10-10 19:00:00'),(9,2,'2017-10-10 19:30:00'),(6,3,'2017-10-10 20:00:00'), |
|  | (8,1,'2017-10-11 16:00:00'),(4,2,'2017-10-11 16:30:00'),(5,3,'2017-10-11 17:00:00'), |
|  | (9,1,'2017-10-11 19:00:00'),(3,2,'2017-10-11 19:30:00'),(4,3,'2017-10-11 20:00:00'), |
|  | (4,1,'2017-10-12 16:00:00'),(7,2,'2017-10-12 16:30:00'),(6,3,'2017-10-12 17:00:00'), |
|  | (3,1,'2017-10-12 19:00:00'),(7,2,'2017-10-12 19:30:00'),(7,3,'2017-10-12 20:00:00'), |
|  | (5,1,'2017-10-13 16:00:00'),(2,2,'2017-10-13 16:30:00'),(8,3,'2017-10-13 17:00:00'), |
|  | (9,1,'2017-10-13 19:00:00'),(2,2,'2017-10-13 19:30:00'),(9,3,'2017-10-13 20:00:00'), |
|  | (1,1,'2017-10-14 13:00:00'),(4,2,'2017-10-14 13:30:00'),(6,3,'2017-10-14 14:00:00'), |
|  | (2,1,'2017-10-14 16:00:00'),(1,2,'2017-10-14 16:30:00'),(5,3,'2017-10-14 17:00:00'), |
|  | (3,1,'2017-10-14 19:00:00'),(7,2,'2017-10-14 19:30:00'),(7,3,'2017-10-14 20:00:00'), |
|  | (2,1,'2017-10-15 13:00:00'),(10,2,'2017-10-15 13:30:00'),(11,3,'2017-10-15 14:00:00'), |
|  | (2,1,'2017-10-15 16:00:00'),(10,2,'2017-10-15 16:30:00'),(11,3,'2017-10-15 17:00:00'), |
|  | (3,1,'2017-10-15 19:00:00'),(10,2,'2017-10-15 19:30:00'),(11,3,'2017-10-15 20:00:00'), |
|  | (1,1,'2017-10-16 16:00:00'),(4,2,'2017-10-16 16:30:00'),(4,3,'2017-10-16 17:00:00'), |
|  | (4,1,'2017-10-16 19:00:00'),(4,2,'2017-10-16 19:30:00'),(2,3,'2017-10-16 20:00:00'), |
|  | (7,1,'2017-10-17 16:00:00'),(5,2,'2017-10-17 16:30:00'),(1,3,'2017-10-17 17:00:00'), |
|  | (8,1,'2017-10-17 19:00:00'),(7,2,'2017-10-17 19:30:00'),(7,3,'2017-10-17 20:00:00'), |
|  | (9,1,'2017-10-18 16:00:00'),(8,2,'2017-10-18 16:30:00'),(6,3,'2017-10-18 17:00:00'), |
|  | (6,1,'2017-10-18 19:00:00'),(3,2,'2017-10-18 19:30:00'),(5,3,'2017-10-18 20:00:00'), |
|  | (5,1,'2017-10-19 16:00:00'),(2,2,'2017-10-19 16:30:00'),(9,3,'2017-10-19 17:00:00'), |
|  | (3,1,'2017-10-19 19:00:00'),(4,2,'2017-10-19 19:30:00'),(9,3,'2017-10-19 20:00:00'), |
|  | (1,1,'2017-10-20 16:00:00'),(1,2,'2017-10-20 16:30:00'),(8,3,'2017-10-20 17:00:00'), |
|  | (2,1,'2017-10-20 19:00:00'),(6,2,'2017-10-20 19:30:00'),(4,3,'2017-10-20 20:00:00'), |
|  | (1,1,'2017-10-21 13:00:00'),(9,2,'2017-10-21 13:30:00'),(7,3,'2017-10-21 14:00:00'), |
|  | (2,1,'2017-10-21 16:00:00'),(8,2,'2017-10-21 16:30:00'),(2,3,'2017-10-21 17:00:00'), |
|  | (3,1,'2017-10-21 19:00:00'),(7,2,'2017-10-21 19:30:00'),(1,3,'2017-10-21 20:00:00'), |
|  | (3,1,'2017-10-22 13:00:00'),(11,2,'2017-10-22 13:30:00'),(10,3,'2017-10-22 14:00:00'), |
|  | (2,1,'2017-10-22 16:00:00'),(11,2,'2017-10-22 16:30:00'),(10,3,'2017-10-22 17:00:00'), |
|  | (4,1,'2017-10-22 19:00:00'),(11,2,'2017-10-22 19:30:00'),(10,3,'2017-10-22 20:00:00'), |
|  | (6,1,'2017-10-23 16:00:00'),(6,2,'2017-10-23 16:30:00'),(9,3,'2017-10-23 17:00:00'), |
|  | (12,1,'2017-10-23 19:00:00'),(6,2,'2017-10-23 19:30:00'),(9,3,'2017-10-23 20:00:00'), |
|  | (5,1,'2017-10-24 16:00:00'),(9,2,'2017-10-24 16:30:00'),(9,3,'2017-10-24 17:00:00'), |
|  | (12,1,'2017-10-24 19:00:00'),(8,2,'2017-10-24 19:30:00'),(8,3,'2017-10-24 20:00:00'), |
|  | (8,1,'2017-10-25 16:00:00'),(7,2,'2017-10-25 16:30:00'),(7,3,'2017-10-25 17:00:00'), |
|  | (9,1,'2017-10-25 19:00:00'),(5,2,'2017-10-25 19:30:00'),(6,3,'2017-10-25 20:00:00'), |
|  | (12,1,'2017-10-26 16:00:00'),(7,2,'2017-10-26 16:30:00'),(5,3,'2017-10-26 17:00:00'), |
|  | (12,1,'2017-10-26 19:00:00'),(9,2,'2017-10-26 19:30:00'),(12,3,'2017-10-26 20:00:00'), |
|  | (5,1,'2017-10-27 16:00:00'),(12,2,'2017-10-27 16:30:00'),(12,3,'2017-10-27 17:00:00'), |
|  | (7,1,'2017-10-27 19:00:00'),(12,2,'2017-10-27 19:30:00'),(7,3,'2017-10-27 20:00:00'), |
|  | (6,1,'2017-10-28 13:00:00'),(12,2,'2017-10-28 13:30:00'),(5,3,'2017-10-28 14:00:00'), |
|  | (5,1,'2017-10-28 16:00:00'),(6,2,'2017-10-28 16:30:00'),(5,3,'2017-10-28 17:00:00'), |
|  | (5,1,'2017-10-28 19:00:00'),(7,2,'2017-10-28 19:30:00'),(8,3,'2017-10-28 20:00:00'), |
|  | (12,1,'2017-10-29 13:00:00'),(8,2,'2017-10-29 13:30:00'),(9,3,'2017-10-29 14:00:00'), |
|  | (12,1,'2017-10-29 16:00:00'),(9,2,'2017-10-29 16:30:00'),(6,3,'2017-10-29 17:00:00'), |
|  | (5,1,'2017-10-29 19:00:00'),(5,2,'2017-10-29 19:30:00'),(12,3,'2017-10-29 20:00:00'), |
|  | (5,1,'2017-10-30 16:00:00'),(7,2,'2017-10-30 16:30:00'),(12,3,'2017-10-30 17:00:00'), |
|  | (5,1,'2017-10-30 19:00:00'),(12,2,'2017-10-30 19:30:00'),(7,3,'2017-10-30 20:00:00'), |
|  | (5,1,'2017-10-31 13:00:00'),(12,2,'2017-10-31 13:30:00'),(8,3,'2017-10-31 14:00:00'), |
|  | (5,1,'2017-10-31 16:00:00'),(5,2,'2017-10-31 16:30:00'),(9,3,'2017-10-31 17:00:00'); |
|  |  |
|  |  |
|  | INSERT INTO seats (row\_char, number, room\_id) |
|  | VALUES ('A',1,1),('A',2,1),('A',3,1),('A',4,1),('A',5,1),('A',6,1),('A',7,1),('A',8,1), |
|  | ('B',1,1),('B',2,1),('B',3,1),('B',4,1),('B',5,1),('B',6,1),('B',7,1),('B',8,1), |
|  | ('C',1,1),('C',2,1),('C',3,1),('C',4,1),('C',5,1),('C',6,1),('C',7,1),('C',8,1), |
|  | ('D',1,1),('D',2,1),('D',3,1),('D',4,1),('D',5,1),('D',6,1),('D',7,1),('D',8,1), |
|  | ('E',1,1),('E',2,1),('E',3,1),('E',4,1),('E',5,1),('E',6,1),('E',7,1),('E',8,1), |
|  | ('F',1,1),('F',2,1),('F',3,1),('F',4,1),('F',5,1),('F',6,1),('F',7,1),('F',8,1), |
|  | ('G',1,1),('G',2,1),('G',3,1),('G',4,1),('G',5,1),('G',6,1),('G',7,1),('G',8,1), |
|  | ('H',1,1),('H',2,1),('H',3,1),('H',4,1),('H',5,1),('H',6,1),('H',7,1),('H',8,1), |
|  | ('I',1,1),('I',2,1),('I',3,1),('I',4,1),('I',5,1),('I',6,1),('I',7,1),('I',8,1), |
|  | ('A',1,2),('A',2,2),('A',3,2),('A',4,2),('A',5,2),('A',6,2), |
|  | ('B',1,2),('B',2,2),('B',3,2),('B',4,2),('B',5,2),('B',6,2), |
|  | ('C',1,2),('C',2,2),('C',3,2),('C',4,2),('C',5,2),('C',6,2), |
|  | ('D',1,2),('D',2,2),('D',3,2),('D',4,2),('D',5,2),('D',6,2), |
|  | ('E',1,2),('E',2,2),('E',3,2),('E',4,2),('E',5,2),('E',6,2), |
|  | ('F',1,2),('F',2,2),('F',3,2),('F',4,2),('F',5,2),('F',6,2), |
|  | ('A',1,3),('A',2,3),('A',3,3),('A',4,3),('A',5,3),('A',6,3), |
|  | ('B',1,3),('B',2,3),('B',3,3),('B',4,3),('B',5,3),('B',6,3), |
|  | ('C',1,3),('C',2,3),('C',3,3),('C',4,3),('C',5,3),('C',6,3), |
|  | ('D',1,3),('D',2,3),('D',3,3),('D',4,3),('D',5,3),('D',6,3), |
|  | ('E',1,3),('E',2,3),('E',3,3),('E',4,3),('E',5,3),('E',6,3), |
|  | ('F',1,3),('F',2,3),('F',3,3),('F',4,3),('F',5,3),('F',6,3); |
|  |  |
|  | INSERT INTO bookings (screening\_id, customer\_id) |
|  | VALUES (2,2),(1,4),(2,6),(4,8),(6,10),(1,12),(5,14),(1,16),(2,18),(3,20), |
|  | (5,120),(4,12),(8,24),(10,33),(9,37),(4,67),(11,87),(4,109),(5,12),(6,21), |
|  | (8,11),(10,13),(14,7),(16,103),(18,81),(7,89),(17,52),(7,50),(8,49),(9,37), |
|  | (11,1),(16,37),(20,4),(22,23),(21,24),(10,24),(23,24),(10,55),(14,51),(12,69), |
|  | (14,3),(22,34),(26,33),(28,35),(27,65),(13,22),(29,22),(13,100),(20,101),(12,58), |
|  | (17,5),(28,29),(32,33),(34,45),(33,32),(19,32),(35,30),(16,17),(26,56),(18,55), |
|  | (17,7),(31,11),(38,26),(40,4),(30,51),(25,38),(41,37),(22,101),(32,99),(15,76), |
|  | (20,9),(37,10),(44,21),(46,55),(33,22),(31,33),(47,44),(25,55),(38,42),(24,1), |
|  | (23,11),(37,1),(50,77),(52,23),(39,1),(43,5),(53,89),(28,88),(44,37),(30,2), |
|  | (26,12),(40,1),(56,66),(58,27),(42,7),(46,45),(59,22),(31,25),(50,29),(27,9), |
|  | (29,14),(43,1),(62,55),(64,11),(45,8),(49,56),(65,11),(37,26),(56,120),(33,1), |
|  | (32,15),(49,1),(68,44),(70,11),(51,13),(55,58),(71,1),(49,33),(56,116),(36,103), |
|  | (35,17),(55,56),(74,33),(70,17),(54,11),(61,77),(71,45),(58,78),(62,36),(66,9), |
|  | (38,19),(61,88),(80,57),(76,120),(66,100),(67,89),(77,49),(58,89),(62,17),(69,61), |
|  | (41,100),(67,22),(86,45),(82,119),(72,27),(73,90),(80,56),(61,68),(68,20),(33,9), |
|  | (44,66),(76,119),(92,82),(88,100),(81,89),(79,5),(83,65),(64,42),(74,80),(42,26), |
|  | (47,45),(82,118),(98,67),(94,11),(81,55),(82,4),(83,23),(67,4),(86,80),(45,19), |
|  | (50,44),(88,117),(104,61),(100,97),(81,35),(85,3),(89,35),(76,41),(86,90),(48,17), |
|  | (53,33),(94,116),(110,4),(106,54),(84,33),(88,2),(95,34),(76,27),(86,29),(51,28), |
|  | (56,39),(97,115),(116,4),(112,32),(90,33),(88,1),(101,34),(82,90),(86,101),(51,104), |
|  | (59,111),(100,114),(122,7),(118,35),(93,57),(88,77),(107,69),(91,96),(92,4),(54,35), |
|  | (92,100),(106,113),(128,9),(124,60),(87,88),(91,39),(113,67),(91,43),(98,90),(60,36), |
|  | (98,99),(112,112),(134,10),(130,43),(69,84),(97,31),(119,1),(97,3),(104,7),(63,1), |
|  | (104,4),(118,111),(140,1),(136,22),(72,67),(97,111),(125,87),(100,24),(110,46),(66,4), |
|  | (110,17),(130,110),(146,12),(142,22),(75,48),(100,111),(131,47),(103,24),(122,27),(69,27), |
|  | (122,55),(136,91),(152,11),(148,13),(84,90),(103,101),(137,12),(109,11),(128,10),(75,9), |
|  | (128,58),(142,90),(158,56),(154,15),(93,91),(109,34),(143,9),(115,34),(131,33),(78,81), |
|  | (134,88),(148,48),(164,78),(160,16),(102,22),(115,33),(149,47),(121,46),(137,6),(90,6), |
|  | (140,67),(154,40),(170,77),(166,78),(108,21),(121,26),(155,53),(127,42),(143,31),(99,11), |
|  | (152,45),(160,70),(176,38),(172,66),(114,20),(127,106),(161,111),(211,109),(149,108),(102,113), |
|  | (158,44),(166,87),(182,99),(178,65),(120,19),(136,99),(167,49),(133,66),(158,67),(117,3), |
|  | (164,71),(172,33),(188,100),(184,50),(144,18),(142,23),(173,46),(139,23),(164,1),(129,3), |
|  | (170,78),(178,35),(194,36),(187,23),(159,24),(151,23),(179,55),(145,58),(170,60),(141,4), |
|  | (176,70),(184,7),(200,36),(190,78),(162,70),(157,80),(182,99),(151,95),(176,32),(156,7), |
|  | (182,88),(190,8),(200,34),(193,74),(168,35),(163,120),(185,109),(157,31),(182,68),(180,56), |
|  | (191,47),(190,16),(200,1),(196,72),(177,11),(169,12),(191,19),(166,108),(176,23),(189,23), |
|  | (197,32),(196,26),(203,2),(199,80),(192,4),(175,49),(197,55),(172,76),(188,99),(195,90), |
|  | (200,23),(199,43),(206,3),(202,90),(198,59),(181,58),(200,59),(178,6),(194,35),(198,44), |
|  | (203,116),(202,28),(209,4),(205,93),(201,23),(187,10),(203,76),(187,77),(200,78),(204,9), |
|  | (209,18),(205,10),(209,5),(208,43),(204,67),(193,54),(206,54),(196,1),(206,7),(207,9), |
|  | (212,68),(211,5),(212,6),(211,7),(207,8),(199,9),(209,9),(205,23),(212,111),(213,40); |
|  |  |
|  |  |
|  |  |
|  | INSERT INTO reserved\_seat (booking\_id, seat\_id) |
|  | VALUES (1,74),(1,75),(1,76),(2,10),(2,11),(3,100),(3,101),(4,66),(4,67),(5,141), |
|  | (6,33),(6,34),(7,102),(7,103),(8,2),(8,3),(8,4),(8,5),(9,98),(9,99), |
|  | (10,120),(11,74),(11,75),(11,76),(12,23),(12,24),(13,104),(13,105),(14,60),(14,61), |
|  | (15,130),(15,131),(16,71),(16,72),(17,88),(17,89),(18,51),(18,52),(18,53),(18,54), |
|  | (19,83),(19,84),(20,138),(21,94),(22,30),(22,31),(22,32),(23,101),(23,102),(23,103), |
|  | (23,75),(24,67),(24,68),(25,113),(25,114),(26,44),(27,97),(27,98),(28,71),(29,76), |
|  | (30,139),(31,79),(32,50),(33,80),(33,81),(33,82),(33,83),(33,84),(34,62),(34,63), |
|  | (35,120),(35,121),(36,16),(36,17),(37,82),(37,83),(38,59),(39,78),(40,111),(40,112), |
|  | (41,90),(41,91),(41,92),(42,52),(42,53),(42,54),(43,89),(43,90),(44,71),(44,72), |
|  | (45,120),(45,121),(46,38),(46,39),(47,101),(47,102),(48,62),(48,63),(48,64),(49,81), |
|  | (50,121),(50,122),(50,123),(50,124),(51,91),(51,92),(51,93),(51,94),(52,61),(52,62), |
|  | (53,107),(53,108),(54,67),(54,68),(55,117),(55,118),(56,61),(57,104),(57,105),(57,106), |
|  | (58,1),(58,2),(59,75),(59,76),(60,139),(60,140),(61,86),(61,87),(62,13),(62,14), |
|  | (63,101),(63,102),(63,103),(64,66),(64,67),(64,68),(65,120),(65,121),(65,122),(65,123), |
|  | (66,9),(66,10),(67,76),(68,48),(68,49),(68,50),(69,93),(69,94),(70,121),(70,122), |
|  | (71,80),(71,81),(71,82),(72,67),(72,68),(73,77),(73,78),(74,61),(74,62),(74,63), |
|  | (75,130),(75,131),(76,9),(76,10),(77,100),(78,57),(79,107),(80,110),(81,91),(81,92), |
|  | (82,5),(82,6),(83,104),(83,105),(84,23),(84,24),(85,118),(85,119),(85,120),(85,121), |
|  | (86,31),(86,32),(87,76),(87,77),(88,63),(89,89),(89,90),(89,91),(90,113),(90,114), |
|  | (91,79),(91,80),(91,81),(92,1),(92,2),(92,3),(92,4),(92,5),(92,6),(93,105), |
|  | (94,12),(94,13),(94,14),(95,111),(95,112),(95,113),(95,114),(96,59),(96,60),(96,61), |
|  | (97,81),(97,82),(98,47),(98,48),(99,85),(99,86),(100,118),(100,119),(101,103),(101,104), |
|  | (102,23),(102,24),(103,81),(103,82),(104,66),(104,67),(105,136),(105,137),(106,39),(106,40), |
|  | (107,75),(108,72),(109,101),(109,102),(109,103),(109,104),(109,105),(110,122),(110,123),(110,124), |
|  | (111,77),(111,78),(112,8),(113,82),(113,83),(114,56),(114,57),(115,139),(115,140),(116,69), |
|  | (117,75),(117,76),(117,77),(118,60),(119,88),(120,111),(121,108),(122,31),(122,32),(123,98), |
|  | (124,18),(124,19),(125,120),(125,121),(126,61),(126,62),(127,101),(127,102),(128,70),(128,71), |
|  | (129,105),(129,106),(130,141),(130,142),(131,77),(132,71),(133,106),(133,107),(133,108),(134,61), |
|  | (135,110),(135,111),(136,52),(137,84),(137,85),(138,37),(139,75),(139,76),(140,140),(140,141), |
|  | (141,90),(142,42),(143,94),(143,95),(144,66),(145,112),(146,21),(147,79),(147,80),(147,81), |
|  | (148,63),(149,89),(150,128),(150,129),(151,77),(151,78),(151,79),(152,57),(152,58),(152,59), |
|  | (153,89),(153,90),(153,91),(154,37),(154,38),(155,111),(155,112),(155,113),(156,19),(156,20), |
|  | (157,83),(158,5),(159,77),(160,140),(161,89),(162,9),(163,104),(164,71),(165,117),(165,118), |
|  | (166,66),(166,67),(167,83),(167,84),(167,85),(167,86),(168,55),(168,56),(168,57),(168,58), |
|  | (169,105),(169,106),(170,121),(170,122),(171,92),(172,36),(173,99),(174,38),(175,117),(175,118), |
|  | (176,68),(176,69),(177,81),(177,82),(178,31),(178,32),(179,103),(179,104),(180,119),(181,102), |
|  | (182,71),(182,72),(183,100),(183,101),(184,48),(184,49),(185,110),(185,111),(186,12),(186,13), |
|  | (187,78),(187,79),(188,39),(189,81),(190,135),(191,79),(192,33),(192,34),(192,35),(193,90), |
|  | (194,54),(194,55),(195,121),(195,122),(196,53),(196,54),(197,80),(197,81),(198,2),(198,3), |
|  | (199,81),(199,82),(200,115),(201,76),(202,27),(203,103),(203,104),(204,22),(205,140),(206,51), |
|  | (207,83),(208,64),(209,98),(210,118),(211,101),(212,61),(212,62),(213,79),(213,80),(214,50), |
|  | (215,111),(216,30),(216,31),(217,106),(217,107),(218,40),(218,41),(219,91),(219,92),(220,123), |
|  | (221,76),(222,20),(222,21),(223,105),(224,60),(225,133),(225,134),(226,70),(226,71),(226,72), |
|  | (227,83),(228,47),(229,80),(230,120),(230,121),(231,85),(231,86),(232,11),(232,12),(232,13), |
|  | (233,81),(233,82),(234,62),(234,63),(235,113),(235,114),(236,35),(236,36),(237,81),(237,82), |
|  | (238,41),(238,42),(239,77),(239,78),(240,129),(241,102),(241,103),(242,21),(242,22),(242,23), |
|  | (243,89),(244,45),(245,137),(245,138),(245,139),(245,140),(246,49),(246,50),(246,51),(247,101), |
|  | (248,34),(249,77),(250,138),(251,102),(251,103),(251,104),(252,61),(253,98),(253,99),(254,70), |
|  | (255,119),(255,120),(255,121),(256,23),(257,87),(258,36),(258,37),(259,95),(259,96),(260,132), |
|  | (261,88),(261,89),(261,90),(262,20),(262,21),(262,22),(262,23),(263,102),(264,63),(265,118), |
|  | (266,24),(267,79),(268,68),(269,90),(269,91),(270,120),(271,104),(272,8),(273,76),(274,33), |
|  | (275,122),(275,123),(275,124),(276,11),(276,12),(276,13),(277,82),(277,83),(278,27),(278,28), |
|  | (279,75),(279,76),(279,77),(280,140),(280,141),(281,80),(282,26),(283,100),(283,101),(283,102), |
|  | (284,23),(284,24),(285,121),(286,68),(287,78),(288,4),(288,5),(289,97),(290,113),(290,114), |
|  | (291,81),(291,82),(292,49),(293,85),(294,39),(295,140),(296,68),(297,82),(298,25),(298,26), |
|  | (299,83),(299,84),(300,134),(300,135),(301,101),(301,102),(302,56),(302,57),(303,92),(303,93), |
|  | (304,5),(305,112),(305,113),(306,61),(306,62),(307,81),(308,72),(309,88),(309,89),(310,123), |
|  | (311,97),(311,98),(311,99),(312,39),(312,40),(313,79),(314,61),(314,62),(315,144),(316,55), |
|  | (317,81),(317,82),(318,66),(319,101),(320,129),(321,83),(321,84),(322,13),(322,14),(322,15), |
|  | (323,89),(323,90),(324,37),(324,38),(325,115),(325,116),(326,68),(326,69),(326,70),(327,108), |
|  | (328,61),(329,77),(330,125),(330,126),(331,91),(331,92),(332,58),(332,59),(333,76),(333,77), |
|  | (334,23),(334,24),(335,131),(335,132),(336,10),(336,11),(337,99),(337,100),(338,67),(338,68), |
|  | (339,101),(339,102),(340,138),(341,105),(342,3),(342,4),(343,74),(343,75),(344,58),(344,59), |
|  | (345,122),(345,123),(346,34),(346,35),(347,79),(347,80),(348,27),(348,28),(348,29),(349,77), |
|  | (350,112),(350,113),(351,83),(351,84),(352,67),(352,68),(352,69),(353,101),(353,102),(353,103), |
|  | (354,13),(355,113),(355,114),(356,45),(357,90),(358,70),(359,79),(360,138),(361,97),(362,72), |
|  | (363,80),(364,54),(365,122),(366,30),(367,89),(368,48),(369,103),(370,110),(371,88),(372,62), |
|  | (373,81),(373,82),(374,59),(375,140),(376,70),(377,93),(378,23),(378,24),(378,25),(378,26), |
|  | (379,79),(379,80),(379,81),(380,118),(380,119),(381,103),(382,66),(382,67),(382,68),(382,69), |
|  | (383,77),(384,41),(384,42),(384,43),(385,125),(386,68),(387,84),(388,70),(388,71),(389,95), |
|  | (390,120),(390,121),(390,122),(391,76),(391,77),(391,78),(392,8),(392,9),(392,10),(393,103), |
|  | (394,39),(394,40),(395,127),(395,128),(395,129),(396,66),(396,67),(397,85),(397,86),(398,58), |
|  | (399,83),(399,84),(400,118),(400,119),(400,120),(401,103),(401,104),(401,105),(402,51),(403,75), |
|  | (404,34),(404,35),(405,109),(405,110),(405,111),(406,72),(407,93),(407,94),(408,49),(409,88), |
|  | (410,117),(410,118),(410,119); |
|  |  |
|  | select \* from seats; |
|  | select \* from bookings; |
|  |  |
|  | desc reserved\_seat; |
|  | select \* from reserved\_seat; |
|  |  |
|  | select \* from bookings; |
|  |  |
|  | select count(id) from bookings; |
|  | -- to select howmany bookings are made by each customer |
|  | select customer\_id,count(id) from bookings |
|  | group by customer\_id; |
|  | -- columns in the query which arent an aggregate function must be in a group by clause |
|  | select customer\_id,screening\_id,count(id) from bookings |
|  | group by customer\_id,screening\_id |
|  | order by customer\_id; |
|  |  |
|  | select f.name,s.start\_time,c.first\_name,c.last\_name,count(b.id) from films f |
|  | join screenings s on f.id=s.film\_id |
|  | join bookings b on s.id=b.screening\_id |
|  | join customers c on b.customer\_id=c.id |
|  | group by f.name,s.start\_time,c.first\_name,c.last\_name |
|  | order by s.start\_time; |
|  |  |
|  |  |
|  | -- for customer-10 |
|  | select customer\_id,screening\_id,count(id) from bookings |
|  | group by customer\_id,screening\_id |
|  | where customer\_id=10 |
|  | order by customer\_id; |
|  |  |
|  | select customer\_id,screening\_id,count(id) from bookings |
|  | group by customer\_id,screening\_id |
|  | having customer\_id=10 |
|  | order by customer\_id; |
|  |  |
|  | select \* from screenings; |
|  | select \* from films; |
|  | -- ------------------------------------------------------------------------------------------------- |
|  | /\* exercise-1 |
|  | 1) select the customer id and count the number of reserved seats grouped by customer for october 2017. |
|  | 2) select the film name and count the number of screenings for each film that is over 2 hours long. |
|  | \*/ |
|  | select \* from reserved\_seat; |
|  | select \* from b; |
|  | select b.customer\_id,count(r.id)as count from bookings b |
|  | join reserved\_seat r on b.id=r.booking\_id |
|  | join screenings s on s.id=b.screening\_id |
|  | group by customer\_id,start\_time |
|  | having start\_time between '20171001' and '20171031'; |
|  |  |
|  | select f.name,count(s.id) from films f |
|  | join screenings s on f.id=s.film\_id |
|  | group by name,length\_min |
|  | having length\_min>120; |
|  | -- --------------------------------------------------------------------------------- |
|  | -- SUB QUERIES |
|  | -- NON-CORELATED SUBQUERY ( after WHERE) |
|  | select id, start\_time from screenings |
|  | where film\_id in |
|  | (select id from films |
|  | where length\_min>120); |
|  |  |
|  | select \* from screenings; |
|  | select \* from films; |
|  |  |
|  | -- inner query can be executed seperately |
|  | select id from films |
|  | where length\_min>120; |
|  |  |
|  | select \* from customers; |
|  | select \* from bookings; |
|  |  |
|  | select first\_name,last\_name, email from customers |
|  | where id in |
|  | (select customer\_id from bookings |
|  | where screening\_id=1); |
|  |  |
|  | select customer\_id from bookings |
|  | where screening\_id=1; |
|  |  |
|  | -- NON CORELATED SUB QUERY(after FROM) |
|  | SELECT \* FROM RESERVED\_SEAT; |
|  | -- to get number of seats reverved per booking id |
|  | select booking\_id,count(seat\_id) from reserved\_seat |
|  | group by booking\_id; |
|  |  |
|  | -- to select the maximum seats booked in one booking |
|  | -- derieved table |
|  | select max(no\_of\_seats) from |
|  | (select booking\_id,count(seat\_id) as no\_of\_seats from reserved\_seat |
|  | group by booking\_id) b; |
|  |  |
|  | select avg(no\_of\_seats),max(no\_of\_seats) from |
|  | (select booking\_id,count(seat\_id) as no\_of\_seats from reserved\_seat |
|  | group by booking\_id) b; |
|  |  |
|  | -- CO RELATED SUB QUERY |
|  | select \* from bookings; |
|  | select screening\_id,customer\_id from bookings |
|  | order by screening\_id; |
|  |  |
|  | select \* from reserved\_seat; |
|  | -- inner query is running multiple times |
|  | select screening\_id, customer\_id, |
|  | (select count(seat\_id) |
|  | from reserved\_seat where booking\_id=b.id) as no\_of\_seats |
|  | from bookings b |
|  | order by screening\_id; |
|  | -- ----------------------------------------------------------------------------------------------------- |
|  | -- Exercise -2 |
|  | /\* |
|  | 1) select the film name and length for all the films with a length greater than the avergae film length) |
|  | 2)select the maximum number and minimum number of screenings for a particular table |
|  | 3) select each film name and the number of screenings for that film |
|  | \*/ |
|  | select name,length\_min from films |
|  | where length\_min>(select avg(length\_min) from films) ; |
|  |  |
|  | select f.name as film\_name,max(s.id)as max\_screenings,min(s.id) as min\_screenings from screenings s |
|  | join films f on f.id=s.film\_id |
|  | group by f.name; |
|  |  |
|  | select f.name as film\_name,count(s.id)as no\_of\_screenings from films f |
|  | join screenings s on f.id=s.film\_id |
|  | group by f.name; |
|  |  |