Project thing

CREATE database booking;

CREATE TABLE customer(

phone BIGINT PRIMARY KEY,

gender ENUM('m', 'f', 'o') default 'm',

fname varchar(20) NOT null,

lname varchar(20) NOT null,

bdate date NOT null,

age int

)ENGINE=INNODB;

CREATE TABLE employee(

empid int AUTO\_INCREMENT PRIMARY KEY,

gender varchar(1) NOT null,

fname varchar(20) NOT null,

lname varchar(20) NOT null,

street varchar(20) NOT null,

state varchar(20) NOT null,

city varchar(20) NOT null,

salary BIGINT NOT null,

dno int ,

adder\_id int not

)ENGINE=INNODB;

CREATE TABLE transaction(

trid int AUTO\_INCREMENT PRIMARY KEY,

no\_of\_tickets int NOT null,

mode\_of\_pay varchar(20) NOT null,

price int NOT null,

tdate date NOT null,

cust\_phone BIGINT,

time time

)ENGINE=INNODB;

CREATE TABLE ticket(

tic\_id int AUTO\_INCREMENT PRIMARY KEY,

seat\_no int NOT null,

price int NOT null,

movie\_id int NOT null,

mtime varchar(10) NOT null,

mdate date NOT null,

tid int

)ENGINE=INNODB;

CREATE TABLE movie(

mid int AUTO\_INCREMENT PRIMARY KEY,

screen\_no int NOT null,

duration\_mins int NOT null,

rating varchar(10),

title longtext not null,

language varchar(10) NOT null,

genre varchar(50),

description varchar(255)

)ENGINE=INNODB;

CREATE TABLE screen(

floor int not null,

scr\_no int AUTO\_INCREMENT PRIMARY KEY,

dimension varchar(10) NOT null,

capacity int NOT null

)ENGINE=INNODB;

CREATE TABLE department(

Dnumber int AUTO\_INCREMENT PRIMARY KEY,

type varchar(20) NOT null

)ENGINE=INNODB;

CREATE TABLE maintains(

Dno int ,

scr\_no int,

CONSTRAINT pk\_maintains PRIMARY KEY (Dno, scr\_no)

)ENGINE=INNODB;

create table customer\_audit(

id BIGINT PRIMARY KEY,

fname varchar(20) NOT null,

lname varchar(20) NOT null,

registered date NOT null,

reg\_time varchar(20)

)ENGINE=INNODB;

create table movie\_history(

id int PRIMARY KEY,

title varchar(50) not null,

lang varchar(10) not null,

genre varchar(50),

deleted date NOT null,

del\_time varchar(10),

action varcahr(10) NOT NULL DEFAULT 'deleted'

)ENGINE=INNODB;

CREATE TABLE `admins` (

`id` int(4) auto\_increment PRIMARY KEY,

`username` varchar(12) NOT NULL,

`hash` varchar(100) NOT NULL

) ENGINE= INNODB;

ALTER TABLE transaction

ADD CONSTRAINT fk\_cust\_ph FOREIGN KEY (cust\_phone)

REFERENCES customer (phone)

ON DELETE CASCADE

ON UPDATE CASCADE;

ALTER TABLE ticket

ADD CONSTRAINT fk\_trid FOREIGN KEY (tid)

REFERENCES transaction (trid)

ON DELETE CASCADE

ON UPDATE CASCADE;

ALTER TABLE ticket

ADD CONSTRAINT fk\_movie\_id FOREIGN KEY (movie\_id)

REFERENCES movie (mid)

ON DELETE CASCADE

ON UPDATE CASCADE;

ALTER TABLE movie

ADD CONSTRAINT fk\_screen\_no FOREIGN KEY (screen\_no)

REFERENCES screen (scr\_no)

ON DELETE CASCADE

ON UPDATE CASCADE;

ALTER TABLE maintains

ADD CONSTRAINT fk\_scr\_no FOREIGN KEY (scr\_no)

REFERENCES screen (scr\_no)

ON DELETE CASCADE

ON UPDATE CASCADE;

ALTER TABLE maintains

ADD CONSTRAINT fk\_dno FOREIGN KEY (Dno)

REFERENCES department (Dnumber)

ON DELETE CASCADE

ON UPDATE CASCADE;

ALTER TABLE employee

ADD CONSTRAINT fk\_dept\_no FOREIGN KEY (Dno)

REFERENCES department (Dnumber)

ON DELETE set null

ON UPDATE CASCADE;

ALTER TABLE employee

ADD CONSTRAINT fk\_admin\_no FOREIGN KEY (adder\_id)

REFERENCES admins (id)

ON DELETE set null

ON UPDATE CASCADE;

TRIGGERS

DELIMITER |

CREATE TRIGGER bdate\_insert BEFORE INSERT ON customer

FOR EACH ROW BEGIN

SET new.age=DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(), new.bdate)), '%Y') + 0;

END;

|

CREATE TRIGGER bdate\_update BEFORE UPDATE ON customer

FOR EACH ROW BEGIN

SET new.age=DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(), new.bdate)), '%Y') + 0;

END;

|

DELIMITER ;

CREATE TRIGGER before\_customer\_insert

AFTER INSERT

ON customer

FOR EACH ROW

INSERT INTO customer\_audit

SET id=new.phone,

fname=new.fname,

lname=new.lname,

`registered`=CURRENT\_DATE(),

`reg\_time`=CURTIME();

CREATE TRIGGER before\_movie\_delete

BEFORE DELETE

ON movie

FOR EACH ROW

INSERT INTO movie\_history

SET id=old.mid,

title=old.title,

`language`=old.`language`,

`genre`=old.`genre`,

`delete`=CURRENT\_DATE(),

`del\_time`=CURTIME();

/\*CREATE TRIGGER screen\_update

before INSERT ON ticket

FOR EACH ROW

SET new.screen\_no =( Select sceen\_no

FROM movie

WHERE mid = movie\_id);\*/

Insert Data

INSERT INTO `admins` (`id`, `username`, `hash`) VALUES

(1, 'admin', 'pbkdf2:sha25'),

(3, 'leo', 'pbkdf2:sha256:260000$FDESZThw$c5bad925ff4cfb4a65f9749dcc047b6b69a51c13a906f33d12500c1f52a6cca5');

INSERT INTO `customer` (`phone`, `gender`, `fname`, `lname`, `bdate`, `age`) VALUES

(1234567890, 'm', 'varad', 'kelkar', '2002-07-07', 20),

(9096652976, 'm', 'vaughan', 'dsouza', '2002-09-27', 20),

(9421281860, 'm', 'Duane', 'Rodrigues', '2012-01-01', 10),

(9423884797, 'm', 'Leo', 'Barros', '2001-09-25', 21);

INSERT INTO `customer\_audit` (`id`, `fname`, `lname`, `registered`, `reg\_time`) VALUES

(1234567890, 'varad', 'kelkar', '2022-11-21', '23:39:44');

INSERT INTO `department` (`Dnumber`, `type`) VALUES

(1, 'Cleaning'),

(3, 'Lighting'),

(2, 'Sound');

INSERT INTO `employee` (`empid`, `gender`, `fname`, `lname`, `street`, `state`, `city`, `salary`, `dno`,`adder\_id`) VALUES

(1, 'm', 'Isaiah', 'Dcosta', 'Varca', 'Goa', 'Margao', 10000, 1,1),

(2, 'm', 'joshua', 'couthino', 'bakers', 'goa', 'manchester', 12000, 2,1),

(3, 'm', 'swizel', ' antao', 'utopia', 'goa', ' varca', 10000, 2,3),

(4, 'm', 'sanket', 'shenoy', 'bakers', 'goa', 'vat', 12000, 3,3);

(5, 'm', 'varad', 'kelkar', 'b13', 'goa', 'fartoda', '12000', '3', '1')

NSERT INTO `maintains` (`Dno`, `scr\_no`) VALUES

(1, 1),

(1, 5),

(2, 1),

(2, 5);

INSERT INTO `movie` (`mid`, `screen\_no`, `duration\_mins`, `rating`, `title`, `language`, `genre`, `description`) VALUES

(4, 4, 120, 'UA', 'The Martian', 'English', 'sci-fi', NULL),

(5, 5, 150, 'R', 'Black Panther', 'Hindi', 'action', NULL),

(12, 6, 170, 'UA', 'burnt', 'french', 'drama', 'Adam Jones was the chef at a high-class Parisian restaurant owned by his mentor Jean-Luc, until his drug use and temperamental behavior destroyed his career and the restaurant. In the aftermath, Adam went into self-imposed exile in New Orleans by shucking');

INSERT INTO `movie\_history` (`id`, `title`, `lang`, `genre`, `deleted`, `del\_time`, `action`) VALUES

(13, 'patterson', 'spanish', 'drama', '2022-11-22', '00:20:04', 'deleted');

INSERT INTO `screen` (`floor`, `scr\_no`, `dimension`, `capacity`) VALUES

(2, 1, '2D', 50),

(3, 4, '2D', 10),

(2, 5, '3D', 45),

(3, 6, '2D', 20),

(2, 2, '3D', 30);

INSERT INTO `ticket` (`tic\_id`, `movie\_id`, `seat\_no`, `mtime`, `mdate`, `tid`) VALUES

(5, 5, 2, '9:00am', '2022-11-25', '45e2a585'),

(7, 5, 3, '9:00am', '2022-11-25', '86cd3197'),

(9, 5, 1, '9:00am', '2022-11-25', 'f6ee49df'),

(10, 5, 5, '9:00am', '2022-11-25', 'accd7923'),

(14, 5, 37, '9:00am', '2022-11-25', '3fa73315'),

(39, 5, 4, '9:00am', '2022-11-25', 'cae5cc16'),

(44, 5, 6, '9:00am', '2022-11-25', 'cae5cc16'),

(47, 5, 7, '9:00am', '2022-11-25', '6051052c'),

(48, 5, 8, '9:00am', '2022-11-25', '6051052c'),

(49, 5, 9, '9:00am', '2022-11-25', '01213968'),

(50, 5, 10, '9:00am', '2022-11-25', '01213968'),

(51, 5, 11, '9:00am', '2022-11-25', '01213968'),

(55, 5, 13, '9:00am', '2022-11-25', 'ac6d1039'),

(56, 5, 14, '9:00am', '2022-11-25', 'ac6d1039'),

(57, 4, 1, '5:00pm', '2022-11-21', 'c8a7be17'),

(58, 4, 2, '5:00pm', '2022-11-21', 'c8a7be17'),

(59, 4, 1, '5:00pm', '2022-11-23', '2419c381'),

(60, 4, 2, '5:00pm', '2022-11-23', '2419c381'),

(62, 5, 2, '12:00pm', '2022-11-22', 'bafcc4b1'),

(63, 5, 3, '12:00pm', '2022-11-22', 'bafcc4b1');

INSERT INTO `transaction` (`trid`, `no\_of\_tickets`, `mode\_of\_pay`, `price`, `tdate`, `cust\_phone`, `time`) VALUES

('00720bf4', 2, 'cash', 200, '2022-11-20', 9423884797, '13:25:33'),

('01213968', 3, 'gpay', 200, '2022-11-20', 9423884797, '13:51:57'),

('0689522c', 1, 'cash', 200, '2022-11-20', 9423884797, '11:57:00'),

('0a80856c', 1, 'cash', 200, '2022-11-20', 9423884797, '11:03:37'),

('2419c381', 2, 'gpay', 200, '2022-11-21', 9423884797, '13:05:52'),

('39a2a161', 1, 'cash', 200, '2022-11-19', 9423884797, '23:42:13'),

('3fa73315', 1, 'cash', 200, '2022-11-20', 9423884797, '11:22:17'),

('45e2a585', 1, 'gpay', 200, '2022-11-19', 9423884797, '23:31:21'),

('543887ec', 1, 'gpay', 200, '2022-11-20', 9423884797, '11:33:52'),

('554bacc3', 2, 'cash', 200, '2022-11-20', 9423884797, '13:44:53'),

('5f8c711d', 1, 'cash', 200, '2022-11-19', 9423884797, '23:33:58'),

('6051052c', 2, 'cash', 200, '2022-11-20', 9423884797, '13:51:08'),

('6178abbb', 2, 'cash', 200, '2022-11-21', 9423884797, '13:06:58'),

('7f30ce20', 1, 'cash', 200, '2022-11-20', 9423884797, '10:58:52'),

('86cd3197', 1, 'cash', 200, '2022-11-19', 9423884797, '23:41:02'),

('9f163e99', 3, 'gpay', 200, '2022-11-20', 9423884797, '13:52:34'),

('ac6d1039', 2, 'credit card', 200, '2022-11-20', 9423884797, '17:08:42'),

('accd7923', 1, 'cash', 200, '2022-11-20', 9423884797, '10:49:57'),

('b1f53f04', 1, 'cash', 200, '2022-11-20', 9423884797, '10:57:36'),

('bafcc4b1', 2, 'debit card', 200, '2022-11-21', 9423884797, '21:11:46'),

('c6e8413f', 2, 'cash', 200, '2022-11-20', 9423884797, '13:47:25'),

('c8a7be17', 2, 'debit card', 200, '2022-11-21', 9423884797, '12:40:52'),

('cae5cc16', 2, 'cash', 200, '2022-11-20', 9423884797, '13:37:05'),

('df6017d4', 2, 'cash', 200, '2022-11-20', 9423884797, '13:47:42'),

('f6ee49df', 1, 'cash', 200, '2022-11-20', 9423884797, '10:46:52');

Views

CREATE VIEW ticketsPerMovie AS

SELECT `mid`,COUNT(seat\_no) 'no of tickets'

FROM `movie`

inner join ticket

on `mid`=movie\_id

GROUP BY mid;

CREATE VIEW deptEmployee AS

SELECT `Dnumber`,`type`,`empid`,`fname`,`lname`

FROM `department`

inner join employee

on dnumber=dno;

CREATE VIEW CollectionPerDay AS

SELECT `mdate` AS date,COUNT(`seat\_no`)\*200 AS 'income per day'

FROM `ticket`

GROUP BY `mdate`;

CREATE VIEW CollectionPerMovie AS

SELECT `movie\_id`,title ,COUNT(`seat\_no`)\*200 AS 'income per movie'

FROM `ticket`

inner join movie

on movie\_id=mid

GROUP BY `movie\_id`;

CREATE VIEW top3customer AS

SELECT `fname`,`lname`,SUM(price) AS total

FROM `customer`

inner JOIN transaction

ON phone=cust\_phone

group by phone

order by total DESC, fname ASC

limit 0,3;

CREATE VIEW `timedate` AS

SELECT `floor` ,`scr\_no` ,concat\_ws(',',mdate,mtime)`timeday` ,`capacity`

From screen

Inner join movie

on `scr\_no`=screen\_no

inner join ticket

on mid=movie\_id;

CREATE VIEW `timedate2` AS

SELECT `floor` ,`scr\_no` ,`timeday`,COUNT(timeday)AS occupied ,`capacity`

From timedate

group by timeday

order by timeday asc;

CREATE VIEW `timedate3` AS

SELECT `floor` ,`scr\_no` ,`timeday`,occupied ,`capacity` ,(occupied/capacity)\*100 as ratioFull

From timedate2

order by timeday asc;

CREATE VIEW MovieModerateDuration AS

select `mid`,`screen\_no`,`duration\_mins`,`title`

from movie

where duration\_mins between 120 and 165;

CREATE VIEW empDept AS

SELECT `empid`,`fname`,`lname`,type as departmentType

FROM employee

left join department

on dno=dnumber

where dno=(select dnumber

from department

where type = 'sound');

CREATE VIEW longestMovie AS

SELECT `mid`,`title`,max(`duration\_mins`)

from movie;

CREATE VIEW aboveAVGseats AS

SELECT `floor`,`scr\_no`,`capacity`

from screen

where capacity>(select avg(`capacity`)

from screen);

CREATE VIEW minsal AS

SELECT `empid`,`fname`,`lname`,`salary`

from employee

where salary=(select min(`salary`)

from employee);

CREATE VIEW allNamer AS

SELECT `fname`,`lname`

FROM `employee`

UNION

SELECT `fname`,`lname`

FROM `customer`

ORDER BY `fname` ASC,`lname` ASC;

CREATE VIEW custNemp AS

SELECT `fname`,`lname`

FROM `employee`

INTERSECT

SELECT `fname`,`lname`

FROM `customer`

ORDER BY `fname` ASC,`lname` ASC;

CREATE VIEW empNeverCustomer AS

SELECT `fname`,`lname`

FROM `employee`

where `fname`

NOT IN (SELECT `fname`

FROM `customer`)

ORDER BY `fname` ASC;