Database Technologies

UE19CS344

6th Semester, Academic Year 2021-22

Week #: 2 - DBMS Concept Recaps (SQL CRUD)

(Lab 2)

Date: 25/1/2022

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Please note: It was told to write the queries on paper. Since, there were no proper data to be inserted into the tables of the miniworld, random data was generated for further assignments and this meant more often than not, the queries resulted in empty results(especially for complex queries) as the data is not well-formulated.

I. DDL Command on one of the tables:

1) DDL :

```
create table TICKETS
( tid int primary key,
  price ~~int~~ decimal,
  date_ date,
  seat_no int unique,
  isBooked ~~int~~ ENUM('YES','NO') NOT NULL,
  show_id int,
  th_id int,
  admin_id int,
  cid int,
  booking_id int unique,
  booking_date date,
  foreign key (show_id) references SHOW(show_id),
  foreign key (th_id) references THEATRE(th_id),
  foreign key (admin_id) references SELLER(admin_id),
  foreign key (cid) references BUYER(cid)
);
```

Sunday

II. DML Commands:

2) DML :

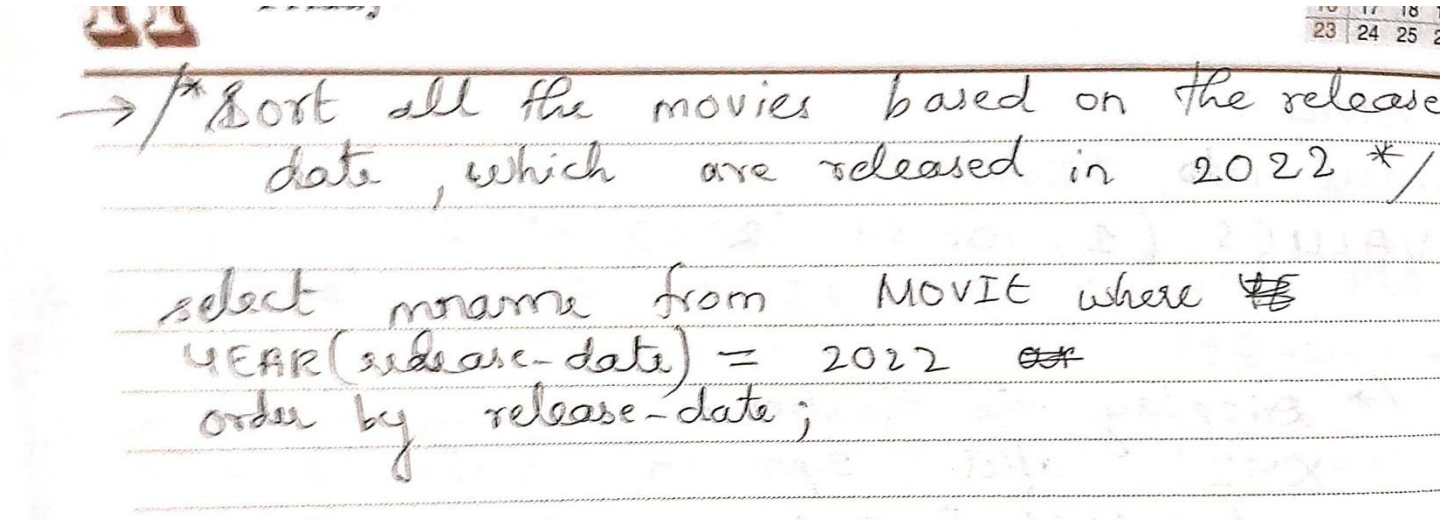
→ insert into TICKETS
VALUES (1, 100.50, '2022-05-05', 11,
'NO', 22, 33, 44, 55, 66, '2022-02-02');

→ /* Display the theatres that play the movie 'X42' after 2pm on 2022-03-05 and before 8pm on 2022-03-05, with ticket price less than ₹500. */
select th-name from TICKETS natural join SHOW natural join movie where name = 'X42' and start_time > '2022-03-05 14:00:00' and end_time < '2022-03-05 20:00:00' and price < 500;

Thursday 10

→ /* Display how many seats are booked in the 'ABC' theatre on 2020-06-07 for the movie 'X42' */
select count(seat_id) from SEATS natural join THEATRE natural join TICKETS natural join SHOW natural join MOVIE where mname = 'X42' and th-name = 'ABC' and date = '2020-06-07' and isBooked = 'Yes';

→ /* Display which all movies are being played on 2020-08-09 */
select mname from SHOW natural join MOVIE where DATE(start_time) = '2020-08-09';



Update and delete:

update tickets

set price = 2*price

where isbooked = 0;

delete

from tickets

where isbooked = 1;