LAB FAT- TUESDAY- SET 1

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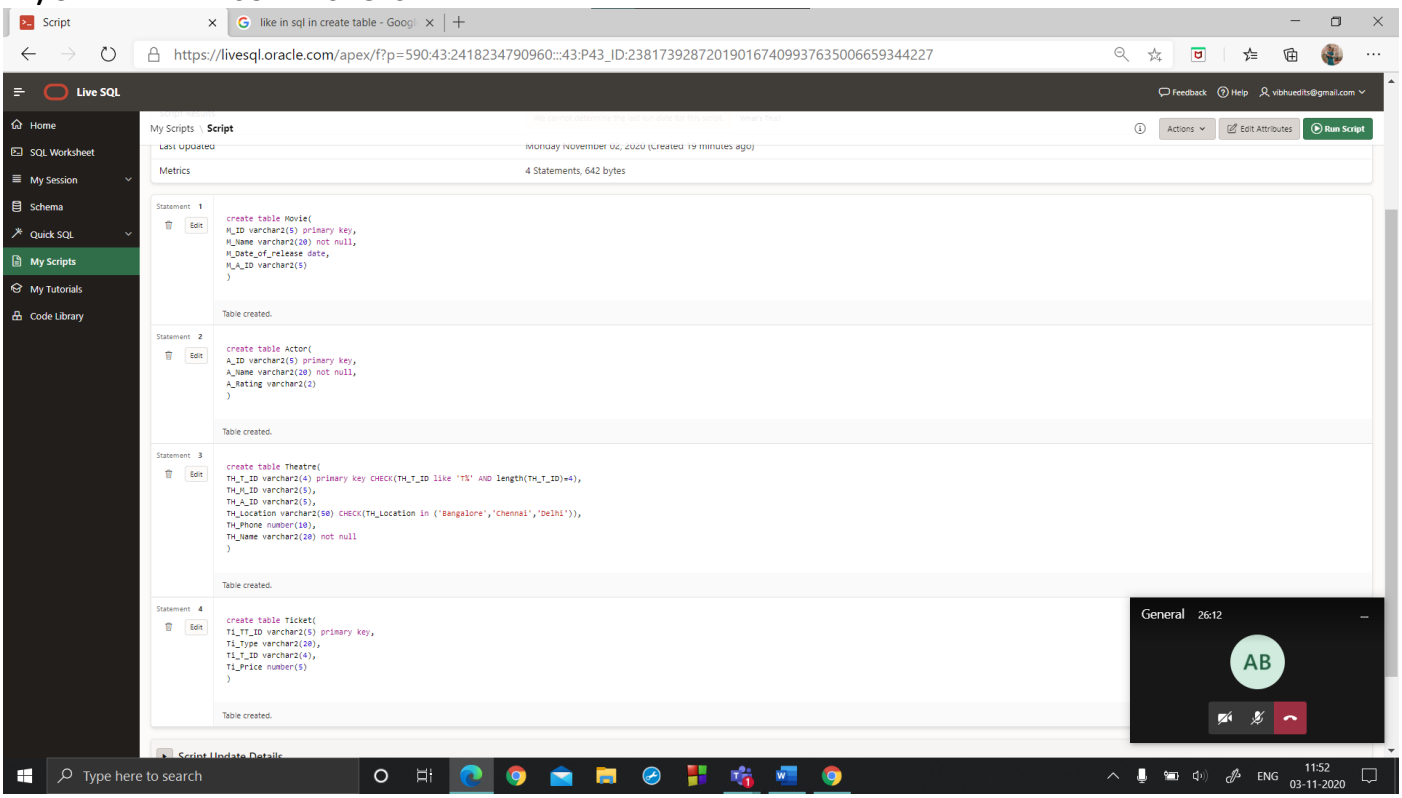
Consider the following relations for a movie database application:

Movie(mid, name, dateofrelease, aid)
Actor(aid, name, rating)
Theatre(tid, mid, aid, location, phone, name)
Ticket(ttid, type, tid, price)

Q1) Create tables as shown above.

A1) CREATE TABLE SCREENSHOTS:



CODE:

```
create table Movie(
M_ID varchar2(5) primary key,
M_Name varchar2(20) not null,
M_Date_of_release date,
M_A_ID varchar2(5)
);
```

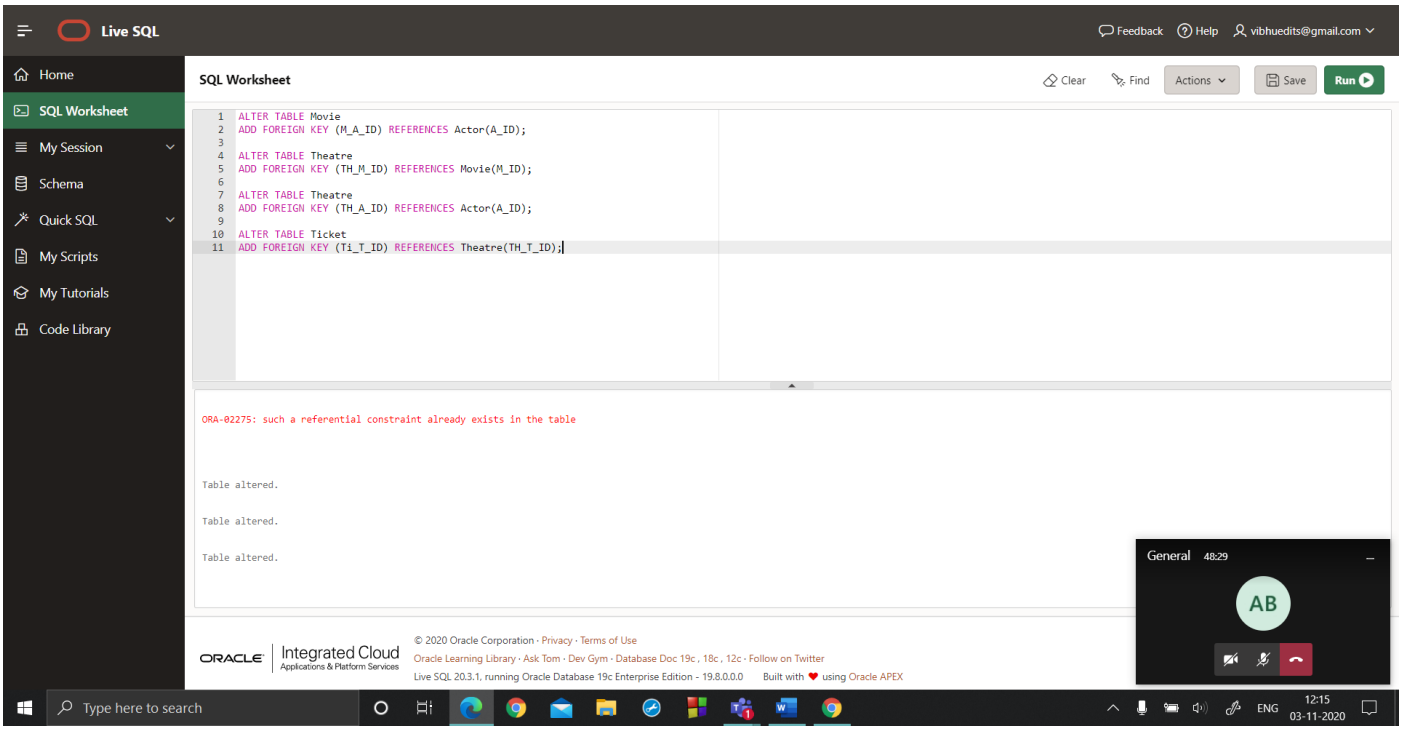
```
create table Actor(
A_ID varchar2(5) primary key,
A_Name varchar2(20) not null,
A_Rating varchar2(2)
);
```

```
create table Theatre(
TH_T_ID varchar2(4) primary key CHECK(TH_T_ID like 'T%' AND length(TH_T_ID)=4),
TH_M_ID varchar2(5),
```

TH_A_ID varchar2(5),
TH_Location varchar2(50) CHECK(TH_Location in ('Bangalore','Chennai','Delhi')),
TH_Phone number(10),
TH_Name varchar2(20) not null
);

create table Ticket(
Ti_TT_ID varchar2(5) primary key,
Ti_Type varchar2(20),
Ti_T_ID varchar2(4),
Ti_Price number(5)
);

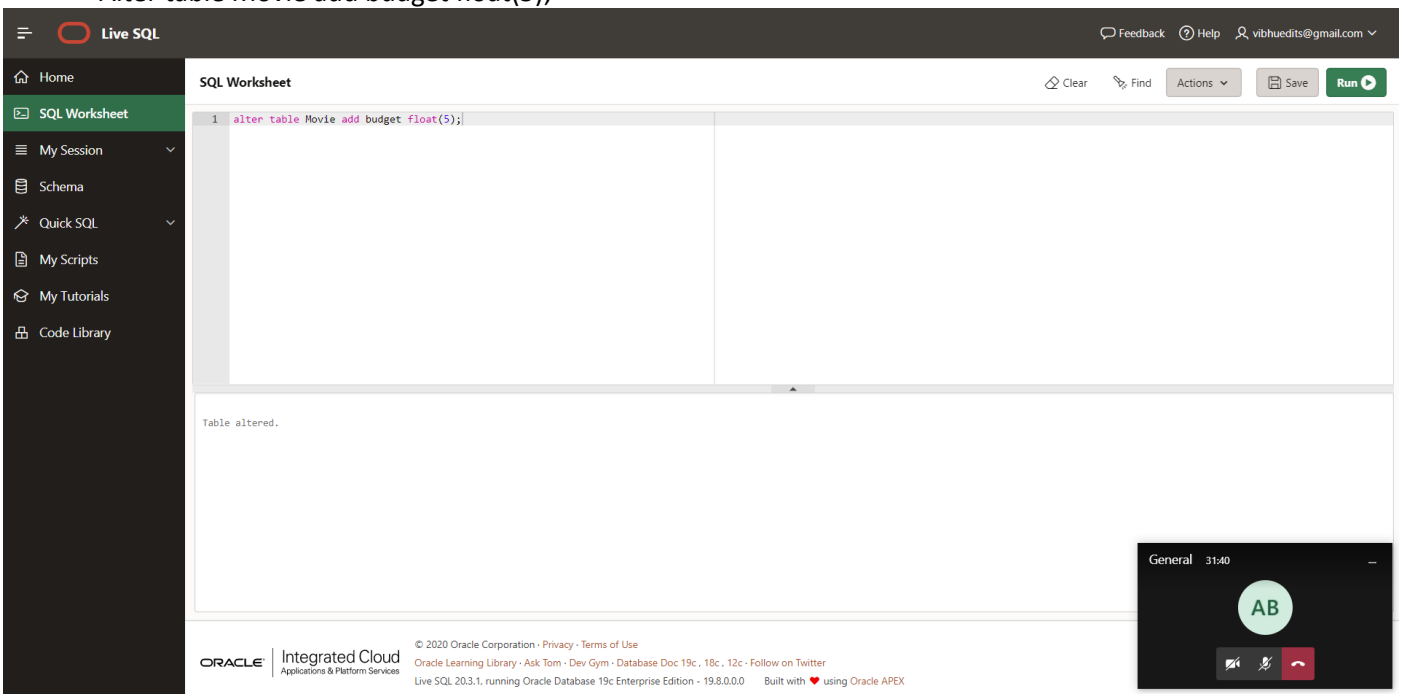
FOREIGN KEYS:



Q2) Add a new attribute named “budget” to the table “Movie”.

A2)

```
Alter table Movie add budget float(5);
```



Q3) Populate the table as given below:

A3)

```
insert into Movie values('M1','Dreams',TO_DATE('21/10/2018','DD/MM/YYYY'),'A1',21.1);
insert into Movie values('M2','Love',TO_DATE('22/05/2019','DD/MM/YYYY'),'A2',40.2);
insert into Movie values('M3','World',TO_DATE('25/05/2020','DD/MM/YYYY'),'A4',50);
insert into Movie values('M4','Happiness',TO_DATE('30/10/1995','DD/MM/YYYY'),'A5',2.5);

insert into Actor values('A1','Bob',4);
insert into Actor values('A2','Alice',3);
insert into Actor values('A3','James',1);
insert into Actor values('A4','Jacob',4);
insert into Actor values('A5','Paul',3);

insert into Theatre values('T001','M1','A1','Bangalore',123456,'Agni');
insert into Theatre values('T002','M2','A3','Chennai',234567,'Jwala');
insert into Theatre values('T003','M3','A2','Delhi',345678,'Universe');
insert into Theatre values('T004','M4','A4','Chennai',567891,'Fortune');

insert into Ticket values('T1','VIP','T001',500);
insert into Ticket values('T2','VVIP','T002',1000);
insert into Ticket values('T3','VIP','T003',400);
insert into Ticket values('T4','VIP','T002',600);
insert into Ticket values('T5','VVIP','T004',1500);
```

Q4) Modify the rating of the actor “Alice” to 4.

A4)

update Actor SET A_Rating=4 WHERE A_Name='Alice';
select * from Actor;

```
1  update Actor SET A_Rating=4 WHERE A_Name='Alice';
2  select * from Actor;
```

1 row(s) updated.

A_ID	A_NAME	A_RATING
A2	Alice	4
A3	James	1
A4	Jacob	4
A5	Paul	3
A1	Bob	4

Download CSV
5 rows selected.

Q5) Display the details of all tables with values.

A5)

Select * from Movie;
Select * from Actor;
Select * from Theatre;
Select * from Ticket;

M_ID	M_NAME	M_DATE_OF_RELEASE	M_A_ID	BUDGET
M2	Love	22-MAY-19	A2	40
M3	World	25-MAY-20	A4	50
M4	Happiness	30-OCT-95	A5	2.5
M1	Dreams	21-OCT-18	A1	21

Download CSV
4 rows selected.

A_ID	A_NAME	A_RATING
A2	Alice	3
A3	James	1
A4	Jacob	4
A5	Paul	3
A1	Bob	4

Download CSV

5 rows selected.

TH_T_ID	TH_M_ID	TH_A_ID	TH_LOCATION	TH_PHONE	TH_NAME
T001	M1	A1	Bangalore	123456	Agni
T002	M2	A3	Chennai	234567	Jwala
T003	M3	A2	Delhi	345678	Universe
T004	M4	A4	Chennai	567891	Fortune

Download CSV

4 rows selected.

TI_TT_ID	TI_TYPE	TI_T_ID	TI_PRICE
T2	VVIP	T002	1000
T3	VIP	T003	400
T4	VIP	T002	600
T5	VVIP	T004	1500
T1	VIP	T001	500

Download CSV

5 rows selected.

Q6) Display the actor details in the ascending order of rating.
A6)

select * from Actor order by A_Rating;

```
1  select * from Actor order by A_Rating;
```

A_ID	A_NAME	A_RATING
A3	James	1
A5	Paul	3
A1	Bob	4
A2	Alice	4
A4	Jacob	4

Download CSV
5 rows selected.

Q7) Display the types of tickets available in the theatre "Jwala".
A7)

select Ti_Type from Ticket INNER JOIN Theatre ON Ticket.Ti_T_ID=Theatre.TH_T_ID WHERE Theatre.TH_Name='Jwala';

```
1  select Ti_Type from Ticket INNER JOIN Theatre ON Ticket.Ti_T_ID=Theatre.TH_T_ID WHERE Theatre.TH_Name='Jwala';
```

TI_TYPE
VVIP
VIP

Download CSV
2 rows selected.

Q8) Find the movie names and date of release of all movies by the actors with a rating greater than or equal to 3. (Use subqueries).
A8)

select Movie.M_Name,Movie.M_Date_of_release from Movie WHERE Movie.M_A_ID in(select Actor.A_ID from Actor WHERE Actor.A_Rating>3);

```
1  select Movie.M_Name,Movie.M_Date_of_release from Movie WHERE Movie.M_A_ID in(select Actor.A_ID from Actor WHERE Actor.A_Rating>3);
```

M_NAME	M_DATE_OF_RELEASE
Love	22-MAY-19
World	25-MAY-20
Dreams	21-OCT-18

Download CSV

3 rows selected.

Q9) Display the theatre id, location and phone number of theatres with the name starting with the letter "A".
A9)

select TH_T_ID,TH_Location,TH_Phone from Theatre WHERE TH_Name like 'A%';

```
1  select TH_T_ID,TH_Location,TH_Phone from Theatre WHERE TH_Name like 'A%';
```

TH_T_ID	TH_LOCATION	TH_PHONE
T001	Bangalore	123456

Download CSV

Q10) Display the details of theatres where the movies by the actor "Jacob" are played. (Use joins).
A10)

select * from Theatre INNER JOIN Actor ON Theatre.TH_A_ID=Actor.A_ID WHERE Actor.A_Name='Jacob';

```
1  select * from Theatre INNER JOIN Actor ON Theatre.TH_A_ID=Actor.A_ID WHERE Actor.A_Name='Jacob';
```

TH_T_ID	TH_M_ID	TH_A_ID	TH_LOCATION	TH_PHONE	TH_NAME	A_ID	A_NAME	A_RATING
T004	M4	A4	Chennai	567891	Fortune	A4	Jacob	4

Download CSV

Q11) Use PL/SQL to display the date of release and budget of the movie “Love”.
A11)

```
create or replace Procedure MovDet(MovName Movie.M_Name%type) is
MovBudget Movie.budget %type;
MovDor Movie.M_Date_of_release %type;
begin
select M_Date_of_release,budget into MovDor,MovBudget from movie where M_Name = MovName;
dbms_output.put_line('Name: '||MovName);
dbms_output.put_line('Date Of Release: '||MovDOR);
dbms_output.put_line('Budget: '||MovBudget);
exception
when no_data_found then
dbms_output.put_line ('no data found');
end;
```

```
1  create or replace Procedure MovDet(MovName Movie.M_Name%type) is
2  MovBudget Movie.budget %type;
3  MovDor Movie.M_Date_of_release %type;
4  begin
5  select M_Date_of_release,budget into MovDor,MovBudget from movie where M_Name = MovName;
6  dbms_output.put_line('Name: '||MovName);
7  dbms_output.put_line('Date Of Release: '||MovDOR);
8  dbms_output.put_line('Budget: '||MovBudget);
9  exception
10 when no_data_found then
11 dbms_output.put_line ('no data found');
12 end;
```

```
Procedure created.
```