

EXPERIMENT N0-4

Write Integrity Constraints for the specified system.

1. Domain constraints

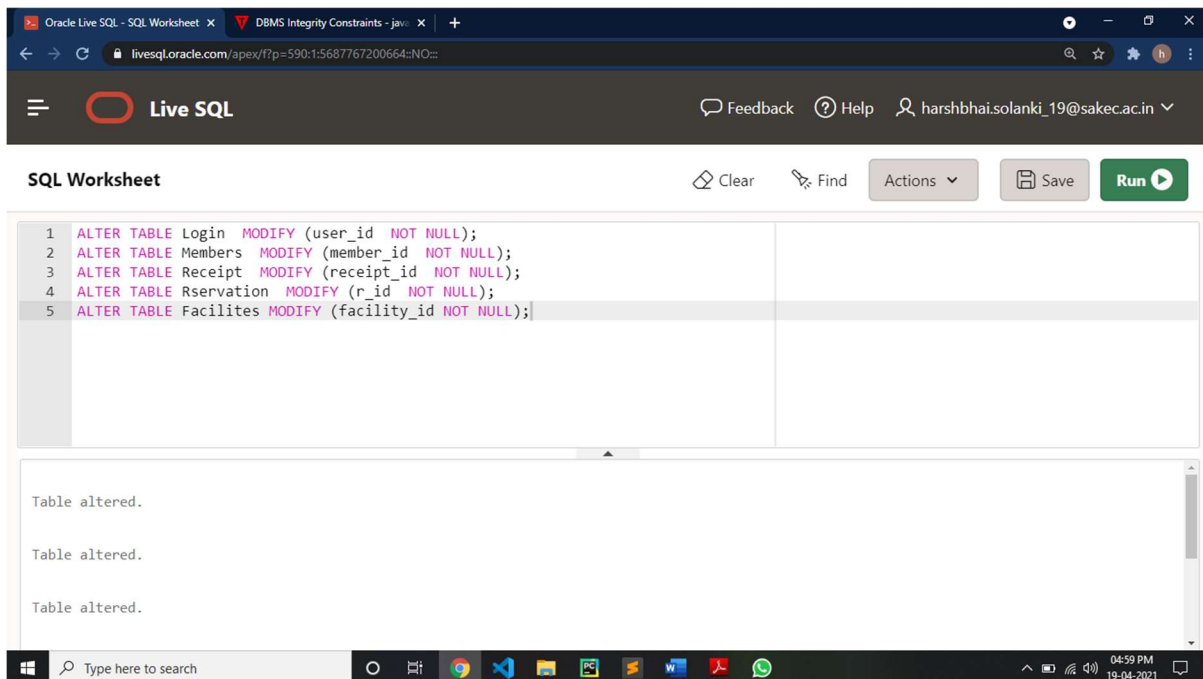
This constraint is used to define the datatype of the attribute so that a valid data is stored and used

The domain constraint we have used in our system are:

- Number
- Character (Integer)
- DATE

2. Entity integrity constraints

The entity integrity constraint states that primary key value can't be null.



The screenshot displays the Oracle Live SQL web interface. The browser address bar shows the URL: `livesql.oracle.com/apex/?p=590:15687767200664:NO::`. The page header includes the 'Live SQL' logo, a 'Feedback' link, a 'Help' link, and a user profile for 'harshbhai.solanki_19@sakec.ac.in'. Below the header, the 'SQL Worksheet' section contains five lines of SQL code:

```
1 ALTER TABLE Login MODIFY (user_id NOT NULL);
2 ALTER TABLE Members MODIFY (member_id NOT NULL);
3 ALTER TABLE Receipt MODIFY (receipt_id NOT NULL);
4 ALTER TABLE Rreservation MODIFY (r_id NOT NULL);
5 ALTER TABLE Facilites MODIFY (facility_id NOT NULL);
```

Below the code editor, the execution results are displayed, showing three instances of 'Table altered.' The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 04:59 PM on 19-04-2021.

3. Referential Integrity Constraints

A referential integrity constraint is specified between two tables.

It is the foreign key of the table

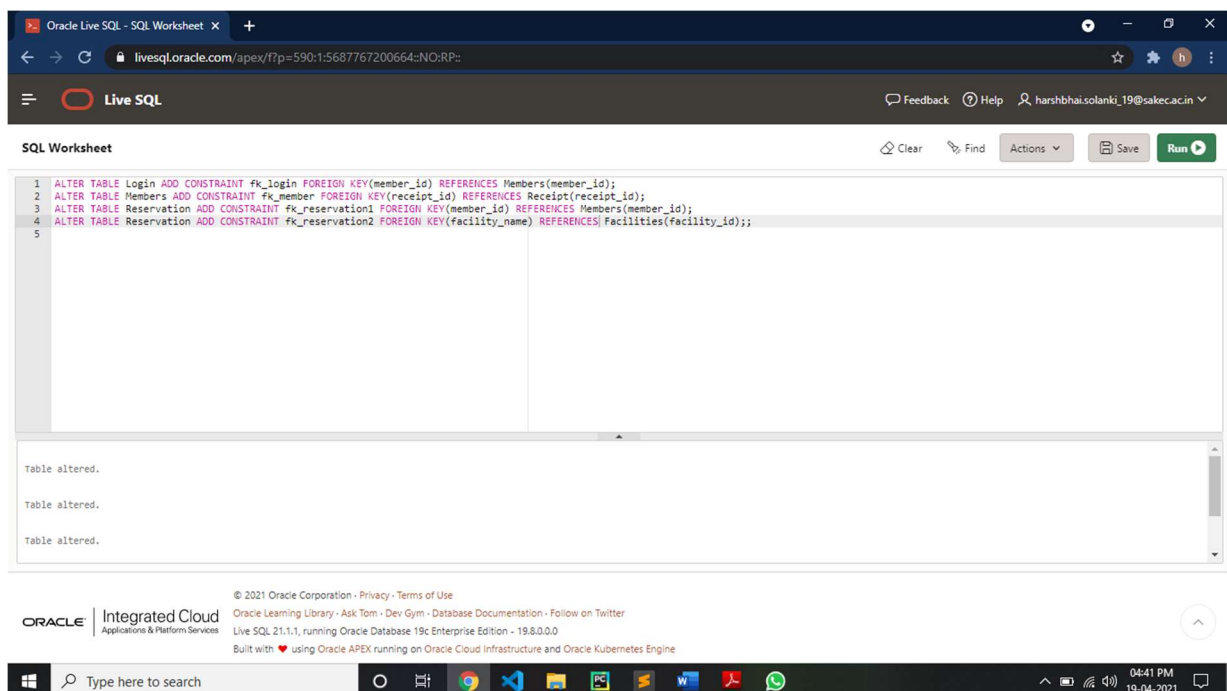
1: ALTER TABLE Login ADD CONSTRAINT fk_login FOREIGN KEY(member_id) REFERENCES Members(member_id)

2: ALTER TABLE Members ADD CONSTRAINT fk_member FOREIGN KEY(receipt_id) REFERENCES Receipt(receipt_id)

3: ALTER TABLE Reservation ADD CONSTRAINT fk_reservation1 FOREIGN KEY(member_id) REFERENCES Members(member_id)

4: ALTER TABLE Reservation ADD CONSTRAINT fk_reservation2 FOREIGN KEY(facility_name) REFERENCES Facilities(facility_id);

5: ALTER TABLE Reservation ADD CONSTRAINT fk_reservation2 FOREIGN KEY(facility_name) REFERENCES Facilities(facility_name);



4. Key constraints

Keys are the entity set that is used to identify an entity within its entity set uniquely. Following is primary key constraint

```
ALTER TABLE Login MODIFY (user_id NOT NULL);
```

```
ALTER TABLE Members MODIFY (member_id NOT NULL);
```

```
ALTER TABLE Receipt MODIFY (receipt_id NOT NULL);
```

```
ALTER TABLE Rservation MODIFY (r_id NOT NULL);
```

```
ALTER TABLE Facilites MODIFY (facility_id NOT NULL);
```

