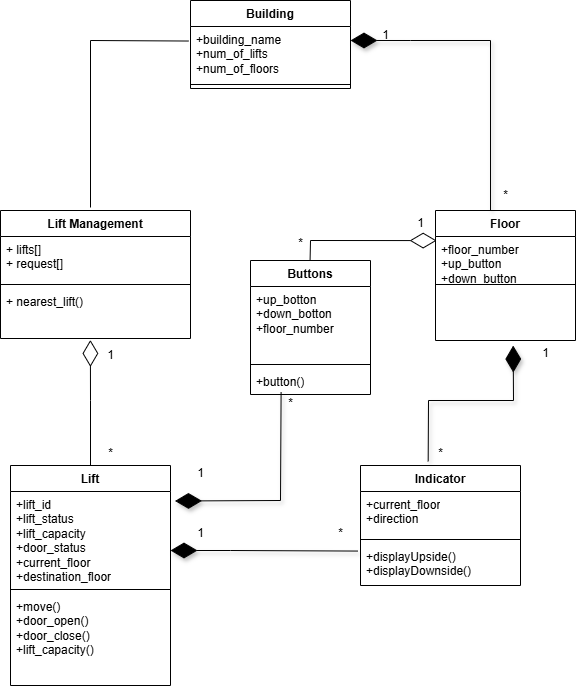
**Assignment: Creating Database for Lift Management System**

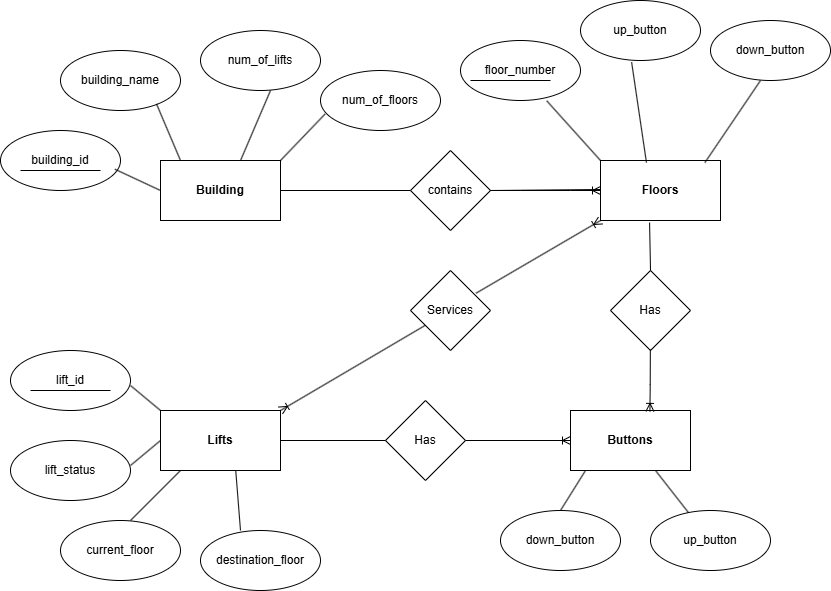
**Asgnmt Coordinator: Suresh Burde**

**Submitted By: Parth J. Bhosale**

**Class Diagram For the Lift Management System**



Entity Realtionship Diagram



**Database :** MySQL

**Tables count :** 6

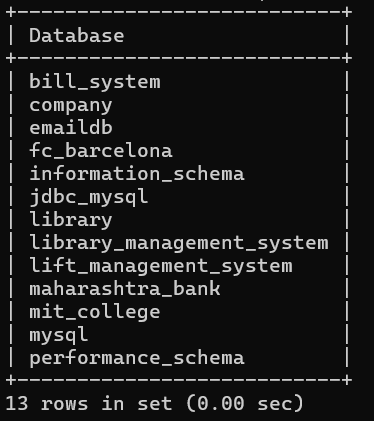
**Tables :** Building, buttons, floor, lift\_management, lift and indicator.

#Creating lift\_management\_system database

Query : CREATE DATABASE lift\_management\_system;

#Show databases

Query: SHOW DATABASES;



#Use lift management system database

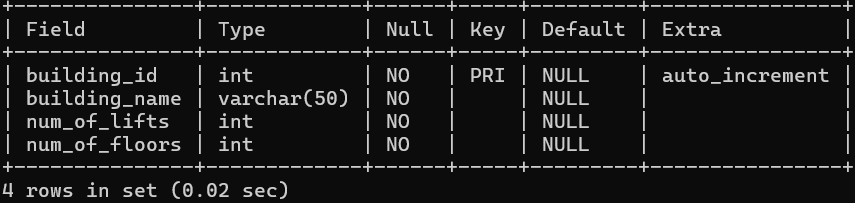
Query: USE lift\_management\_system;

#Create building table.

Query : CREATE TABLE Building(building\_id INT AUTO\_INCREMENT PRIMARY KEY, building\_name VARCHAR(255) NOT NULL, num\_of\_lifts INT NOT NULL , num\_of\_floors INT NOT NULL );

#Description of building table.

Query : DESC building;



#Inserting Values

INSERT INTO building VALUES

(null, ‘Amanora’, 10, 40),

(null, ‘Avenue 69’, 20,60),

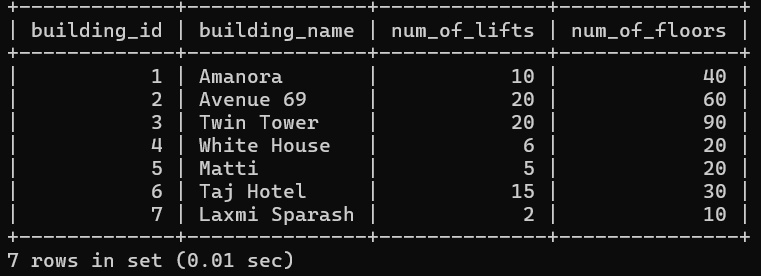
(null, ‘Twin Tower’, 20, 90),

(null, ‘White House’, 6, 20),

(null, ‘Matti’, 5, 20);

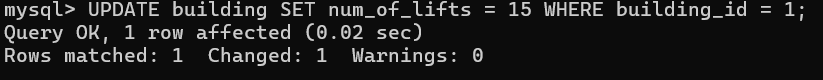
#View

SELECT \* FROM building;



#Updating building table

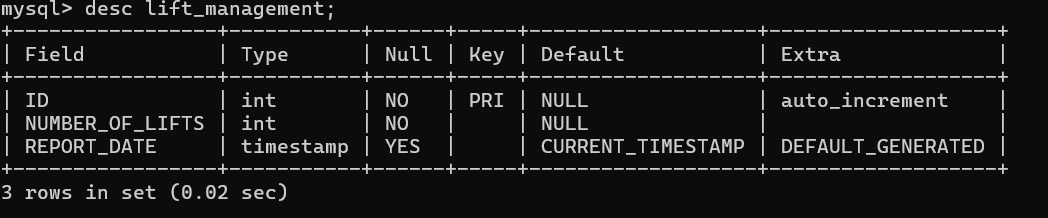
Query : UPDATE building SET num\_of\_lifts = 15 WHERE building\_id = 1;



#Creating lift management table

CREATE TABLE lift\_management ( ID INT AUTO\_INCREMENT PRIMARY KEY, NUMBER\_OF\_LIFTS INT NOT NULL, REPORT\_DATE TIMESTAMP DEFAULT CURRENT\_TIMESTAMP );

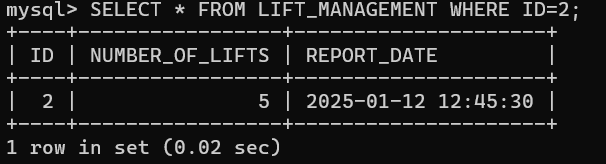
#Description of lift management table



#View

#Select query

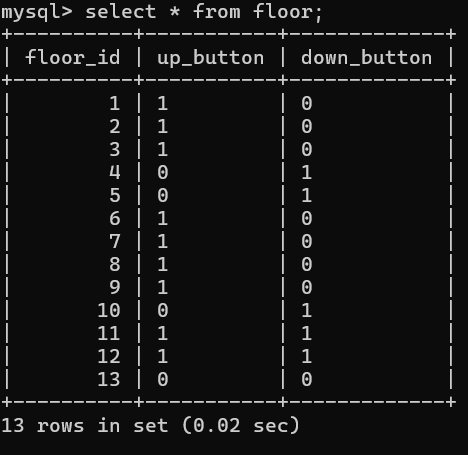
#Query : SELECT \* FROM LIFT\_MANAGEMENT WHERE ID=2;



#Creating floor Table

Query : CREATE TABLE floor(floor\_id INT AUTO\_INCREMENT PRIMARY KEY, up\_button VARCHAR(50) NOT NULL, down\_button VARCHAR(50) NOT NULL);

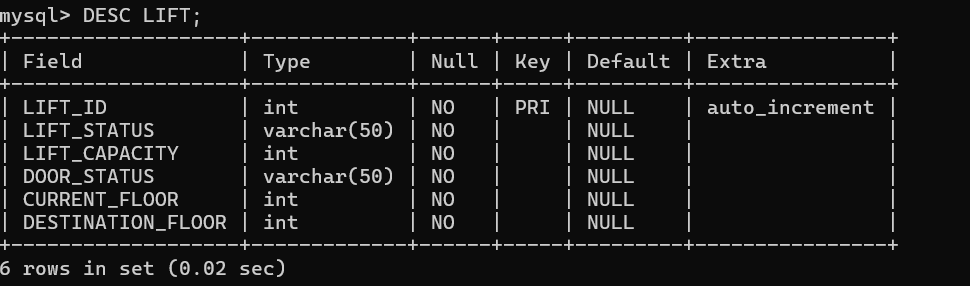
Query: INSERT INTO FLOOR VALUES(NULL,TRUE,FALSE),(NULL,TRUE,FALSE),(NULL,FALSE,TRUE),(NULL,TRUE,TRUE),(NULL,TRUE,TRUE),(NULL,FALSE,FALSE);



#Creating Lift Table

Query : CREATE TABLE LIFT(LIFT\_ID INT AUTO\_INCREMENT PRIMARY KEY, LIFT\_STATUS VARCHAR(50) NOT NULL, LIFT\_CAPACITY INT NOT NULL, DOOR\_STATUS VARCHAR(50) NOT NULL, CURRENT\_FLOOR INT NOT NULL, DESTINATION\_FLOOR INT NOT NULL);

#Description of lift Table



INSERT INTO LIFT VALUES

(NULL, "IDLE",400,"OPEN",2,23),

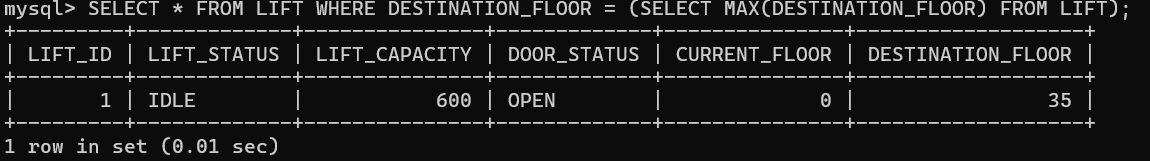
(NULL, "MOVING",450,"CLOSE",21,26),

(NULL, "MOVING",400,"CLOSE",12,3),

(NULL, "MOVING",400,"CLOSE",2,17);

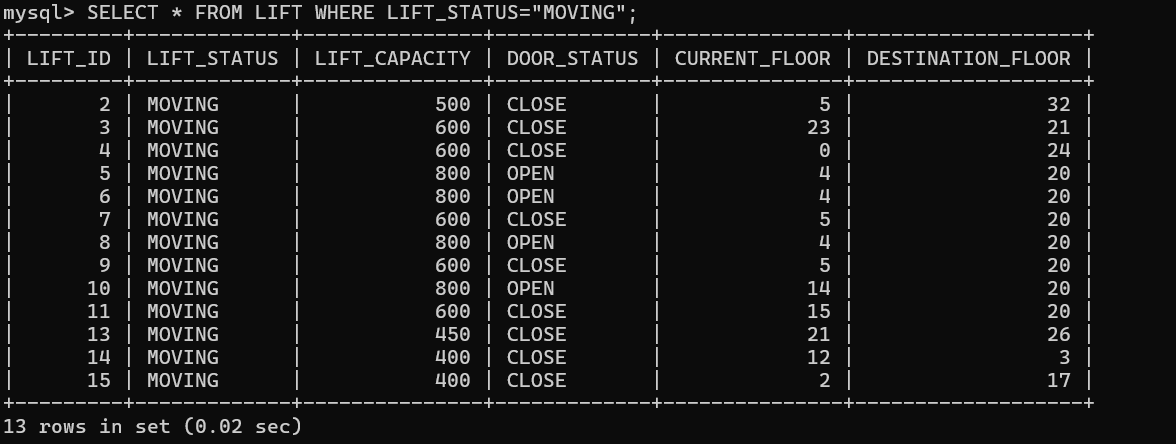
**#**Selecting maximum destination lift:

#Query : SELECT \* FROM LIFT WHERE DESTINATION\_FLOOR = (SELECT MAX(DESTINATION\_FLOOR) FROM LIFT);

****

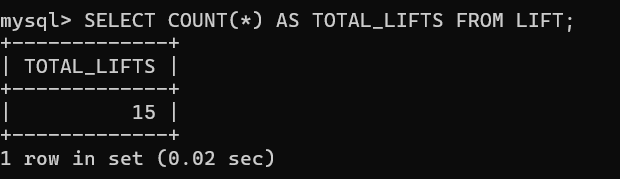
#Moving lifts:

#Query : SELECT \* FROM LIFT WHERE LIFT\_STATUS="MOVING";



#Total number of lifts

#Query : SELECT COUNT(\*) AS TOTAL\_LIFTS FROM LIFT;

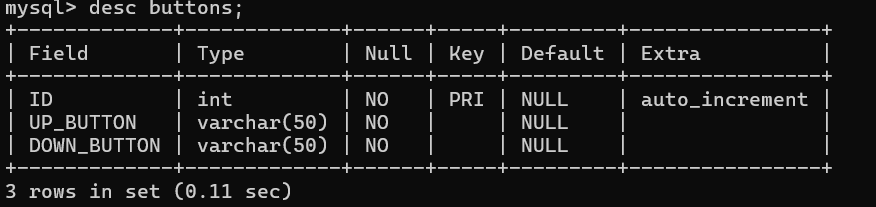


#Creating buttons table

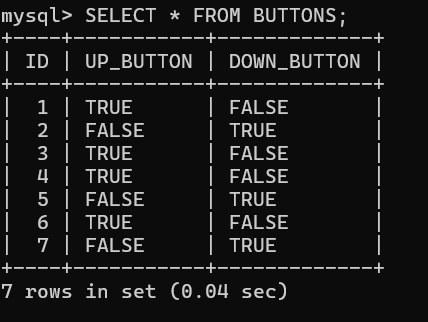
#Query :

CREATE TABLE buttons(ID INT AUTO\_INCREMENT PRIMARY KEY, UP\_BUTTON VARCHAR(50) NOT NULL, DOWN\_BUTTON VARCHAR(50) NOT NULL);

#Description of buttons table :



#View :



#Indicator table :

