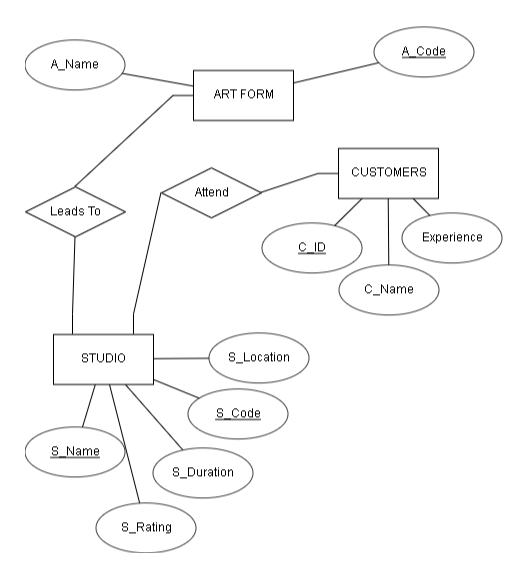
Name:Kartikay Agrawal

Roll number:2148064

**Lab Excercise 4**

1. Convert the ER Model of your business domain into Relational Model using ERD Plus.

****

1. Create the necessary relations / tables for the identified database objects from the Relational Model of your business domain with all necessary constraint specifications such as UNIQUE, NOT NULL, PRIMARY KEY, FOREIGN KEY, DEFAULT and CHECK.

CREATE TABLE ART\_FORM

(A\_NAME VARCHAR(10) NOT NULL CHECK(A\_NAME='JAMPADS' OR A\_NAME='PHOTOSHOOT' OR A\_NAME='STUDIO'),

A\_CODE NUMBER(1) UNI UNIQUE);

CREATE TABLE STUDIO

(S\_CODE VARCHAR(4) PRIMARY KEY,

S\_NAME VARCHAR(20),

S\_LOCATION VARCHAR(50),

S\_DURATION NUMBER(3) CH CHECK(S\_DURATION BETWEEN 30 AND 120),

S\_RATING NUMERIC(1));

CREATE TABLE CUSTOMER

(C\_ID VARCHAR(4) PRIMARY KEY,

C\_NAME VARCHAR(20),

C\_EXPEREIENCE VARCHAR(10) DEFAULT 'GOOD',

STUDIO\_CODE VARCHAR(20),

FOREIGN KEY(STUDIO\_CODE) REFERENCES STUDIO(S\_CODE));

Table created.

Table created.

Table created.

3. Demonstrate the enforcement of constraint using alter and DML commands.

ALTER TABLE ART\_FORM MODIFY A\_NAME VARCHAR(20);

ALTER TABLE STUDIO MODIFY S\_RATING number(2,1);

INSERT INTO ART\_FORM(A\_NAME,A\_CODE) VALUES ('JAMPADS',1);

INSERT INTO ART\_FORM(A\_NAME,A\_CODE) VALUES ('PHOTOSHOOT',2);

INSERT INTO ART\_FORM(A\_NAME,A\_CODE) VALUES ('STUDIO',3);

INSERT INTO STUDIO(S\_CODE,S\_NAME,S\_LOCATION,S\_DURATION,S\_RATING) VALUES (1432,'RocknRoll','Noida',45,4.5);

INSERT INTO STUDIO(S\_CODE,S\_NAME,S\_LOCATION,S\_DURATION,S\_RATING) VALUES (2146,'BeautynBeast','Surat',30,4);

INSERT INTO STUDIO(S\_CODE,S\_NAME,S\_LOCATION,S\_DURATION,S\_RATING) VALUES (1643,'LightsCamAction','Gurgaon',120,4.8);

INSERT INTO CUSTOMER(C\_ID,C\_NAME,C\_EXPEREIENCE,STUDIO\_CODE) VALUES ('J123','Pankaj','Excellent',1432);

INSERT INTO CUSTOMER(C\_ID,C\_NAME,C\_EXPEREIENCE,STUDIO\_CODE) VALUES ('P342','Uday','Bad',2146);

INSERT INTO CUSTOMER(C\_ID,C\_NAME,STUDIO\_CODE) VALUES ('S143','Shrey',1643);

UPDATE CUSTOMER SET C\_NAME=NULL WHERE C\_ID='S143';

DELETE FROM STUDIO WHERE S\_RATING<4.5;

Table altered.

Table altered.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) updated.

1 row(s) deleted.

4. List the constraints enforced on each table.

SELECT CONSTRAINT\_NAME FROM USER\_CONSTRAINTS WHERE TABLE\_NAME='ART\_FORM';

SELECT CONSTRAINT\_NAME FROM USER\_CONSTRAINTS WHERE TABLE\_NAME='STUDIO';

SELECT CONSTRAINT\_NAME FROM USER\_CONSTRAINTS WHERE TABLE\_NAME='CUSTOMER';

|  |
| --- |
| **CONSTRAINT\_NAME** |
| SYS\_C0065232340 |
| SYS\_C0065232341 |
| UNI |

[Download CSV](https://livesql.oracle.com/apex/f?p=590:1:15530489592090::NO:RP::)  
3 rows selected.

|  |
| --- |
| **CONSTRAINT\_NAME** |
| SYS\_C0065232343 |
| SYS\_C0065232344 |

[Download CSV](https://livesql.oracle.com/apex/f?p=590:1:15530489592090::NO:RP::)  
2 rows selected.

|  |
| --- |
| **CONSTRAINT\_NAME** |
| SYS\_C0065232345 |
| CH |

[Download CSV](https://livesql.oracle.com/apex/f?p=590:1:15530489592090::NO:RP::)  
2 rows selected.

5. Demonstrate dropping of any one constraint.

ALTER TABLE CUSTOMER DROP CONSTRAINT CH;

Table altered.