**Name: Kartikay Agrawal**

**Reg. No.: 2148064 MDS 171 – Database Technologies**

**Exercise: Demonstration of JOIN Operations and Built-in functions in SQL Queries.**

CREATE TABLE ART\_FORM

(A\_NAME VARCHAR(20) NOT NULL CHECK(A\_NAME='JAMPADS' OR A\_NAME='PHOTOSHOOT' OR A\_NAME='STUDIO'),

A\_CODE NUMBER(1) UNIQUE);

CREATE TABLE STUDIO

(S\_CODE VARCHAR(4) PRIMARY KEY,

S\_NAME VARCHAR(20),

S\_LOCATION VARCHAR(50),

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

S\_RATING NUMBER(2,1));

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));

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',2648);

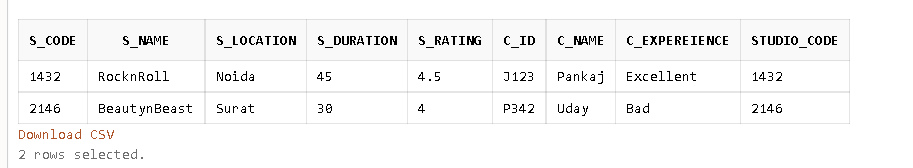
Q1. Perform the different JOIN operations on the tables created for your Application

Displaying all the common studios and their customers

SELECT \*

FROM STUDIO

INNER JOIN CUSTOMER ON S\_CODE=STUDIO\_CODE

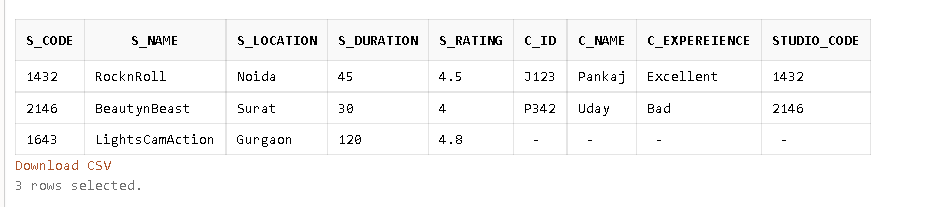


Displaying all the studios along with their customers

SELECT \*

FROM STUDIO

FULL JOIN CUSTOMER ON S\_CODE=STUDIO\_CODE

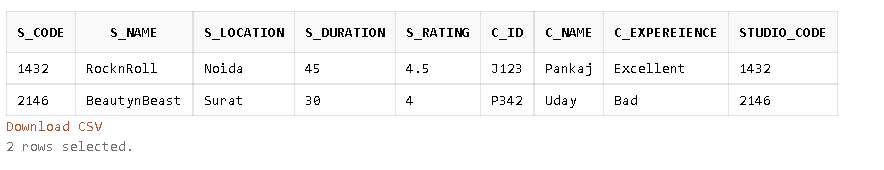


Displaying all the customers and their common studios

SELECT \*

FROM STUDIO

RIGHT JOIN CUSTOMER ON S\_CODE=STUDIO\_CODE

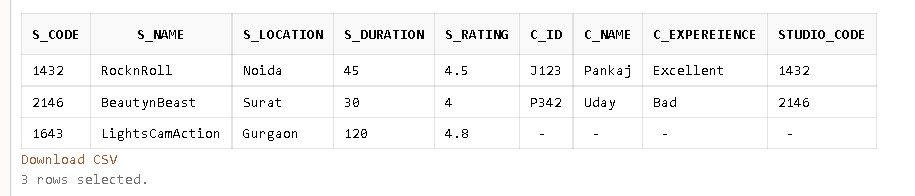


Displaying all the studios and their only common customers

SELECT \*

FROM STUDIO

LEFT JOIN CUSTOMER ON S\_CODE=STUDIO\_CODE



Q2. Demonstrate the following Built-in functions using the tables created for your

Application domain.

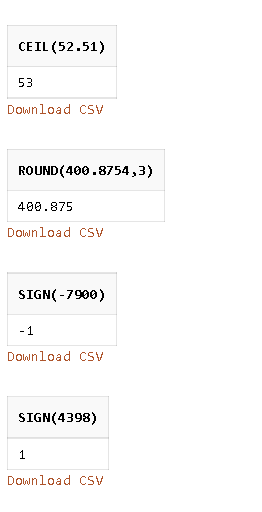
SELECT FLOAT(50.55) FROM DUAL;

SELECT CEIL(52.51) FROM DUAL;

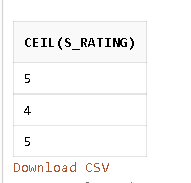
SELECT ROUND(400.8754,3) FROM DUAL;

SELECT SIGN(-7900) FROM DUAL;

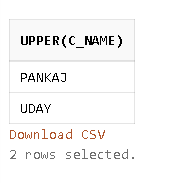
SELECT SIGN(4398) FROM DUAL;



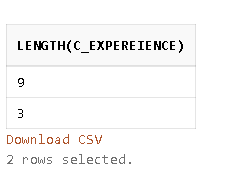
SELECT CEIL(S\_RATING) FROM STUDIO;



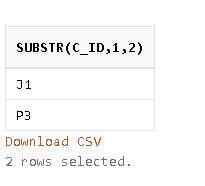
SELECT UPPER(C\_NAME) from CUSTOMER;



SELECT LENGTH(C\_EXPEREIENCE) FROM CUSTOMER;



SELECT SUBSTR(C\_ID,1,2) FROM CUSTOMER;



SELECT CONCAT(S\_NAME,(CONCAT(',',S\_LOCATION))) FROM STUDIO;

