**EXPERIMENT 6**

CODE

import mysql.connector

conn = mysql.connector.connect(

    host="localhost",

    user="root",

    password="khaifhasan1331",  # Use the corrected password

    database="exp6"

)

cursor = conn.cursor()

create\_table\_query = """

CREATE TABLE instructor (

  ID INT PRIMARY KEY,

  name VARCHAR(255) NOT NULL,

  dept\_name VARCHAR(255) NOT NULL,

  salary INT

)

"""

cursor.execute(create\_table\_query)

insert\_query = """

INSERT INTO instructor (ID, name, dept\_name, salary) VALUES

(10101, 'Srinivasan', 'Comp. Sci.', 65000),

(12121, 'Wu', 'Finance', 90000),

(15151, 'Mozart', 'Music', 40000),

(22222, 'Einstein', 'Physics', 95000),

(32343, 'El Said', 'History', 60000),

(33456, 'Gold', 'Physics', 87000),

(45565, 'Katz', 'Comp. Sci.', 75000),

(58583, 'Califieri', 'History', 62000),

(76543, 'Singh', 'Finance', 80000),

(76766, 'Crick', 'Biology', 72000),

(83821, 'Brandt', 'Comp. Sci.', 92000),

(98345, 'Kim', 'Elec. Eng', 80000)

"""

cursor.execute(insert\_query)

create\_table\_query = """

CREATE TABLE teaches (

  ID INT,

  course\_id VARCHAR(255),

  sec\_id INT,

  semester VARCHAR(255),

  year INT,

  FOREIGN KEY (ID) REFERENCES instructor(ID)

)

"""

cursor.execute(create\_table\_query)

insert\_query = """

INSERT INTO teaches (ID, course\_id, sec\_id, semester, year) VALUES

(10101, 'CS-101', 1, 'Fall', 2017),

(10101, 'CS-315', 1, 'Spring', 2018),

(10101, 'CS-347', 1, 'Fall', 2017),

(12121, 'FIN-201', 1, 'Spring', 2018),

(15151, 'MU-199', 1, 'Spring', 2015),

(22222, 'PHY-101', 1, 'Fall', 2017),

(32343, 'HIS-351', 1, 'Spring', 2018),

(45565, 'CS-101', 1, 'Spring', 2018),

(45565, 'CS-319', 1, 'Spring', 2018),

(76766, 'BIO-101', 1, 'Summer', 2017),

(76766, 'BIO-301', 1, 'Summer', 2018),

(83821, 'CS-190', 1, 'Spring', 2017),

(83821, 'CS-190', 2, 'Spring', 2017),

(83821, 'CS-319', 2, 'Spring', 2018),

(98345, 'EE-181', 1, 'Spring', 2017)

"""

cursor.execute(insert\_query)

# 1

insert\_query = """

INSERT INTO instructor (ID, name, dept\_name, salary) VALUES

('10211', 'Smith', 'Biology', 66000)

"""

cursor.execute(insert\_query)

# 2

tuple\_to\_delete = ('10211', 'Smith', 'Biology', 66000)

delete\_query = "DELETE FROM instructor WHERE ID = %s AND name = %s AND dept\_name = %s AND salary = %s"

cursor.execute(delete\_query, tuple\_to\_delete)

# 3

dept\_name = 'History'

select\_query = "SELECT \* FROM instructor WHERE dept\_name = %s"

cursor.execute(select\_query, (dept\_name,))

results = cursor.fetchall()

for row in results:

    print(row)

# 4

cartesian\_query = """

SELECT \* FROM instructor, teaches

"""

cursor.execute(cartesian\_query)

results = cursor.fetchall()

for row in results:

    print(row)

# 5

query = """

SELECT DISTINCT instructor.name, teaches.course\_id

FROM instructor

JOIN teaches ON instructor.ID = teaches.ID

"""

# Execute the query

cursor.execute(query)

# Fetch the results

results = cursor.fetchall()

# Print the results

for row in results:

    print(row)

# 6

query = """

SELECT name

FROM instructor

WHERE name LIKE '%dar%'

"""

cursor.execute(query)

results = cursor.fetchall()

for row in results:

    print(row[0])

# 7

query = """

SELECT name

FROM instructor

WHERE salary BETWEEN 90000 AND 100000

"""

cursor.execute(query)

results = cursor.fetchall()

for row in results:

    print(row[0])

conn.commit()

cursor.close()

conn.close()

OUTPUT

PS C:\Users\khaif> python -u "c:\Users\khaif\Downloads\sql.py"

(32343, 'El Said', 'History', 60000)

(58583, 'Califieri', 'History', 62000)

(98345, 'Kim', 'Elec. Eng', 80000, 10101, 'CS-101', 1, 'Fall', 2017)

(83821, 'Brandt', 'Comp. Sci.', 92000, 10101, 'CS-101', 1, 'Fall', 2017)

(76766, 'Crick', 'Biology', 72000, 10101, 'CS-101', 1, 'Fall', 2017)

(76543, 'Singh', 'Finance', 80000, 10101, 'CS-101', 1, 'Fall', 2017)

(58583, 'Califieri', 'History', 62000, 10101, 'CS-101', 1, 'Fall', 2017)

(45565, 'Katz', 'Comp. Sci.', 75000, 10101, 'CS-101', 1, 'Fall', 2017)

(33456, 'Gold', 'Physics', 87000, 10101, 'CS-101', 1, 'Fall', 2017)

(32343, 'El Said', 'History', 60000, 10101, 'CS-101', 1, 'Fall', 2017)

(22222, 'Einstein', 'Physics', 95000, 10101, 'CS-101', 1, 'Fall', 2017)

(15151, 'Mozart', 'Music', 40000, 10101, 'CS-101', 1, 'Fall', 2017)

(12121, 'Wu', 'Finance', 90000, 10101, 'CS-101', 1, 'Fall', 2017)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 10101, 'CS-101', 1, 'Fall', 2017)

(98345, 'Kim', 'Elec. Eng', 80000, 10101, 'CS-315', 1, 'Spring', 2018)

(83821, 'Brandt', 'Comp. Sci.', 92000, 10101, 'CS-315', 1, 'Spring', 2018)

(76766, 'Crick', 'Biology', 72000, 10101, 'CS-315', 1, 'Spring', 2018)

(76543, 'Singh', 'Finance', 80000, 10101, 'CS-315', 1, 'Spring', 2018)

(58583, 'Califieri', 'History', 62000, 10101, 'CS-315', 1, 'Spring', 2018)

(45565, 'Katz', 'Comp. Sci.', 75000, 10101, 'CS-315', 1, 'Spring', 2018)

(33456, 'Gold', 'Physics', 87000, 10101, 'CS-315', 1, 'Spring', 2018)

(32343, 'El Said', 'History', 60000, 10101, 'CS-315', 1, 'Spring', 2018)

(22222, 'Einstein', 'Physics', 95000, 10101, 'CS-315', 1, 'Spring', 2018)

(15151, 'Mozart', 'Music', 40000, 10101, 'CS-315', 1, 'Spring', 2018)

(12121, 'Wu', 'Finance', 90000, 10101, 'CS-315', 1, 'Spring', 2018)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 10101, 'CS-315', 1, 'Spring', 2018)

(98345, 'Kim', 'Elec. Eng', 80000, 10101, 'CS-347', 1, 'Fall', 2017)

(83821, 'Brandt', 'Comp. Sci.', 92000, 10101, 'CS-347', 1, 'Fall', 2017)

(76766, 'Crick', 'Biology', 72000, 10101, 'CS-347', 1, 'Fall', 2017)

(76543, 'Singh', 'Finance', 80000, 10101, 'CS-347', 1, 'Fall', 2017)

(58583, 'Califieri', 'History', 62000, 10101, 'CS-347', 1, 'Fall', 2017)

(45565, 'Katz', 'Comp. Sci.', 75000, 10101, 'CS-347', 1, 'Fall', 2017)

(33456, 'Gold', 'Physics', 87000, 10101, 'CS-347', 1, 'Fall', 2017)

(32343, 'El Said', 'History', 60000, 10101, 'CS-347', 1, 'Fall', 2017)

(22222, 'Einstein', 'Physics', 95000, 10101, 'CS-347', 1, 'Fall', 2017)

(15151, 'Mozart', 'Music', 40000, 10101, 'CS-347', 1, 'Fall', 2017)

(12121, 'Wu', 'Finance', 90000, 10101, 'CS-347', 1, 'Fall', 2017)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 10101, 'CS-347', 1, 'Fall', 2017)

(98345, 'Kim', 'Elec. Eng', 80000, 12121, 'FIN-201', 1, 'Spring', 2018)

(83821, 'Brandt', 'Comp. Sci.', 92000, 12121, 'FIN-201', 1, 'Spring', 2018)

(76766, 'Crick', 'Biology', 72000, 12121, 'FIN-201', 1, 'Spring', 2018)

(76543, 'Singh', 'Finance', 80000, 12121, 'FIN-201', 1, 'Spring', 2018)

(58583, 'Califieri', 'History', 62000, 12121, 'FIN-201', 1, 'Spring', 2018)

(45565, 'Katz', 'Comp. Sci.', 75000, 12121, 'FIN-201', 1, 'Spring', 2018)

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(32343, 'El Said', 'History', 60000, 12121, 'FIN-201', 1, 'Spring', 2018)

(22222, 'Einstein', 'Physics', 95000, 12121, 'FIN-201', 1, 'Spring', 2018)

(15151, 'Mozart', 'Music', 40000, 12121, 'FIN-201', 1, 'Spring', 2018)

(12121, 'Wu', 'Finance', 90000, 12121, 'FIN-201', 1, 'Spring', 2018)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 12121, 'FIN-201', 1, 'Spring', 2018)

(98345, 'Kim', 'Elec. Eng', 80000, 15151, 'MU-199', 1, 'Spring', 2015)

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(76766, 'Crick', 'Biology', 72000, 15151, 'MU-199', 1, 'Spring', 2015)

(76543, 'Singh', 'Finance', 80000, 15151, 'MU-199', 1, 'Spring', 2015)

(58583, 'Califieri', 'History', 62000, 15151, 'MU-199', 1, 'Spring', 2015)

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(33456, 'Gold', 'Physics', 87000, 15151, 'MU-199', 1, 'Spring', 2015)

(32343, 'El Said', 'History', 60000, 15151, 'MU-199', 1, 'Spring', 2015)

(22222, 'Einstein', 'Physics', 95000, 15151, 'MU-199', 1, 'Spring', 2015)

(15151, 'Mozart', 'Music', 40000, 15151, 'MU-199', 1, 'Spring', 2015)

(12121, 'Wu', 'Finance', 90000, 15151, 'MU-199', 1, 'Spring', 2015)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 15151, 'MU-199', 1, 'Spring', 2015)

(98345, 'Kim', 'Elec. Eng', 80000, 22222, 'PHY-101', 1, 'Fall', 2017)

(83821, 'Brandt', 'Comp. Sci.', 92000, 22222, 'PHY-101', 1, 'Fall', 2017)

(76766, 'Crick', 'Biology', 72000, 22222, 'PHY-101', 1, 'Fall', 2017)

(76543, 'Singh', 'Finance', 80000, 22222, 'PHY-101', 1, 'Fall', 2017)

(58583, 'Califieri', 'History', 62000, 22222, 'PHY-101', 1, 'Fall', 2017)

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(12121, 'Wu', 'Finance', 90000, 22222, 'PHY-101', 1, 'Fall', 2017)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 22222, 'PHY-101', 1, 'Fall', 2017)

(98345, 'Kim', 'Elec. Eng', 80000, 32343, 'HIS-351', 1, 'Spring', 2018)

(83821, 'Brandt', 'Comp. Sci.', 92000, 32343, 'HIS-351', 1, 'Spring', 2018)

(76766, 'Crick', 'Biology', 72000, 32343, 'HIS-351', 1, 'Spring', 2018)

(76543, 'Singh', 'Finance', 80000, 32343, 'HIS-351', 1, 'Spring', 2018)

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(33456, 'Gold', 'Physics', 87000, 32343, 'HIS-351', 1, 'Spring', 2018)

(32343, 'El Said', 'History', 60000, 32343, 'HIS-351', 1, 'Spring', 2018)

(22222, 'Einstein', 'Physics', 95000, 32343, 'HIS-351', 1, 'Spring', 2018)

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(12121, 'Wu', 'Finance', 90000, 32343, 'HIS-351', 1, 'Spring', 2018)

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(98345, 'Kim', 'Elec. Eng', 80000, 45565, 'CS-101', 1, 'Spring', 2018)

(83821, 'Brandt', 'Comp. Sci.', 92000, 45565, 'CS-101', 1, 'Spring', 2018)

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(15151, 'Mozart', 'Music', 40000, 45565, 'CS-101', 1, 'Spring', 2018)

(12121, 'Wu', 'Finance', 90000, 45565, 'CS-101', 1, 'Spring', 2018)

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(98345, 'Kim', 'Elec. Eng', 80000, 45565, 'CS-319', 1, 'Spring', 2018)

(83821, 'Brandt', 'Comp. Sci.', 92000, 45565, 'CS-319', 1, 'Spring', 2018)

(76766, 'Crick', 'Biology', 72000, 45565, 'CS-319', 1, 'Spring', 2018)

(76543, 'Singh', 'Finance', 80000, 45565, 'CS-319', 1, 'Spring', 2018)

(58583, 'Califieri', 'History', 62000, 45565, 'CS-319', 1, 'Spring', 2018)

(45565, 'Katz', 'Comp. Sci.', 75000, 45565, 'CS-319', 1, 'Spring', 2018)

(33456, 'Gold', 'Physics', 87000, 45565, 'CS-319', 1, 'Spring', 2018)

(32343, 'El Said', 'History', 60000, 45565, 'CS-319', 1, 'Spring', 2018)

(22222, 'Einstein', 'Physics', 95000, 45565, 'CS-319', 1, 'Spring', 2018)

(15151, 'Mozart', 'Music', 40000, 45565, 'CS-319', 1, 'Spring', 2018)

(12121, 'Wu', 'Finance', 90000, 45565, 'CS-319', 1, 'Spring', 2018)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 45565, 'CS-319', 1, 'Spring', 2018)

(98345, 'Kim', 'Elec. Eng', 80000, 76766, 'BIO-101', 1, 'Summer', 2017)

(83821, 'Brandt', 'Comp. Sci.', 92000, 76766, 'BIO-101', 1, 'Summer', 2017)

(76766, 'Crick', 'Biology', 72000, 76766, 'BIO-101', 1, 'Summer', 2017)

(76543, 'Singh', 'Finance', 80000, 76766, 'BIO-101', 1, 'Summer', 2017)

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(45565, 'Katz', 'Comp. Sci.', 75000, 76766, 'BIO-101', 1, 'Summer', 2017)

(33456, 'Gold', 'Physics', 87000, 76766, 'BIO-101', 1, 'Summer', 2017)

(32343, 'El Said', 'History', 60000, 76766, 'BIO-101', 1, 'Summer', 2017)

(22222, 'Einstein', 'Physics', 95000, 76766, 'BIO-101', 1, 'Summer', 2017)

(15151, 'Mozart', 'Music', 40000, 76766, 'BIO-101', 1, 'Summer', 2017)

(12121, 'Wu', 'Finance', 90000, 76766, 'BIO-101', 1, 'Summer', 2017)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 76766, 'BIO-101', 1, 'Summer', 2017)

(98345, 'Kim', 'Elec. Eng', 80000, 76766, 'BIO-301', 1, 'Summer', 2018)

(83821, 'Brandt', 'Comp. Sci.', 92000, 76766, 'BIO-301', 1, 'Summer', 2018)

(76766, 'Crick', 'Biology', 72000, 76766, 'BIO-301', 1, 'Summer', 2018)

(76543, 'Singh', 'Finance', 80000, 76766, 'BIO-301', 1, 'Summer', 2018)

(58583, 'Califieri', 'History', 62000, 76766, 'BIO-301', 1, 'Summer', 2018)

(45565, 'Katz', 'Comp. Sci.', 75000, 76766, 'BIO-301', 1, 'Summer', 2018)

(33456, 'Gold', 'Physics', 87000, 76766, 'BIO-301', 1, 'Summer', 2018)

(32343, 'El Said', 'History', 60000, 76766, 'BIO-301', 1, 'Summer', 2018)

(22222, 'Einstein', 'Physics', 95000, 76766, 'BIO-301', 1, 'Summer', 2018)

(15151, 'Mozart', 'Music', 40000, 76766, 'BIO-301', 1, 'Summer', 2018)

(12121, 'Wu', 'Finance', 90000, 76766, 'BIO-301', 1, 'Summer', 2018)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 76766, 'BIO-301', 1, 'Summer', 2018)

(98345, 'Kim', 'Elec. Eng', 80000, 83821, 'CS-190', 1, 'Spring', 2017)

(83821, 'Brandt', 'Comp. Sci.', 92000, 83821, 'CS-190', 1, 'Spring', 2017)

(76766, 'Crick', 'Biology', 72000, 83821, 'CS-190', 1, 'Spring', 2017)

(76543, 'Singh', 'Finance', 80000, 83821, 'CS-190', 1, 'Spring', 2017)

(58583, 'Califieri', 'History', 62000, 83821, 'CS-190', 1, 'Spring', 2017)

(45565, 'Katz', 'Comp. Sci.', 75000, 83821, 'CS-190', 1, 'Spring', 2017)

(33456, 'Gold', 'Physics', 87000, 83821, 'CS-190', 1, 'Spring', 2017)

(32343, 'El Said', 'History', 60000, 83821, 'CS-190', 1, 'Spring', 2017)

(22222, 'Einstein', 'Physics', 95000, 83821, 'CS-190', 1, 'Spring', 2017)

(15151, 'Mozart', 'Music', 40000, 83821, 'CS-190', 1, 'Spring', 2017)

(12121, 'Wu', 'Finance', 90000, 83821, 'CS-190', 1, 'Spring', 2017)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 83821, 'CS-190', 1, 'Spring', 2017)

(98345, 'Kim', 'Elec. Eng', 80000, 83821, 'CS-190', 2, 'Spring', 2017)

(83821, 'Brandt', 'Comp. Sci.', 92000, 83821, 'CS-190', 2, 'Spring', 2017)

(76766, 'Crick', 'Biology', 72000, 83821, 'CS-190', 2, 'Spring', 2017)

(76543, 'Singh', 'Finance', 80000, 83821, 'CS-190', 2, 'Spring', 2017)

(58583, 'Califieri', 'History', 62000, 83821, 'CS-190', 2, 'Spring', 2017)

(45565, 'Katz', 'Comp. Sci.', 75000, 83821, 'CS-190', 2, 'Spring', 2017)

(33456, 'Gold', 'Physics', 87000, 83821, 'CS-190', 2, 'Spring', 2017)

(32343, 'El Said', 'History', 60000, 83821, 'CS-190', 2, 'Spring', 2017)

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(15151, 'Mozart', 'Music', 40000, 83821, 'CS-190', 2, 'Spring', 2017)

(12121, 'Wu', 'Finance', 90000, 83821, 'CS-190', 2, 'Spring', 2017)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 83821, 'CS-190', 2, 'Spring', 2017)

(98345, 'Kim', 'Elec. Eng', 80000, 83821, 'CS-319', 2, 'Spring', 2018)

(83821, 'Brandt', 'Comp. Sci.', 92000, 83821, 'CS-319', 2, 'Spring', 2018)

(76766, 'Crick', 'Biology', 72000, 83821, 'CS-319', 2, 'Spring', 2018)

(76543, 'Singh', 'Finance', 80000, 83821, 'CS-319', 2, 'Spring', 2018)

(58583, 'Califieri', 'History', 62000, 83821, 'CS-319', 2, 'Spring', 2018)

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(22222, 'Einstein', 'Physics', 95000, 83821, 'CS-319', 2, 'Spring', 2018)

(15151, 'Mozart', 'Music', 40000, 83821, 'CS-319', 2, 'Spring', 2018)

(12121, 'Wu', 'Finance', 90000, 83821, 'CS-319', 2, 'Spring', 2018)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 83821, 'CS-319', 2, 'Spring', 2018)

(98345, 'Kim', 'Elec. Eng', 80000, 98345, 'EE-181', 1, 'Spring', 2017)

(83821, 'Brandt', 'Comp. Sci.', 92000, 98345, 'EE-181', 1, 'Spring', 2017)

(76766, 'Crick', 'Biology', 72000, 98345, 'EE-181', 1, 'Spring', 2017)

(76543, 'Singh', 'Finance', 80000, 98345, 'EE-181', 1, 'Spring', 2017)

(58583, 'Califieri', 'History', 62000, 98345, 'EE-181', 1, 'Spring', 2017)

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(33456, 'Gold', 'Physics', 87000, 98345, 'EE-181', 1, 'Spring', 2017)

(32343, 'El Said', 'History', 60000, 98345, 'EE-181', 1, 'Spring', 2017)

(22222, 'Einstein', 'Physics', 95000, 98345, 'EE-181', 1, 'Spring', 2017)

(15151, 'Mozart', 'Music', 40000, 98345, 'EE-181', 1, 'Spring', 2017)

(12121, 'Wu', 'Finance', 90000, 98345, 'EE-181', 1, 'Spring', 2017)

(10101, 'Srinivasan', 'Comp. Sci.', 65000, 98345, 'EE-181', 1, 'Spring', 2017)

('Srinivasan', 'CS-101')

('Srinivasan', 'CS-315')

('Srinivasan', 'CS-347')

('Wu', 'FIN-201')

('Mozart', 'MU-199')

('Einstein', 'PHY-101')

('El Said', 'HIS-351')

('Katz', 'CS-101')

('Katz', 'CS-319')

('Crick', 'BIO-101')

('Crick', 'BIO-301')

('Brandt', 'CS-190')

('Brandt', 'CS-319')

('Kim', 'EE-181')

Wu

Einstein

Brandt