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**Module 3 - Project**

**PROGRAM:**

import cx\_Oracle as oracle

con = oracle.connect('system/tejas2304@localhost/xe')

con.autocommit = True

cur = con.cursor()

cur.execute(""" DROP TABLE INSTA\_LIKES""")

cur.execute(""" DROP TABLE INSTA\_PICS""")

cur.execute(""" DROP TABLE INSTA\_USERS""")

cur.execute(""" CREATE TABLE INSTA\_USERS(

user\_id number(5) primary key,

user\_fname varchar2(20),

user\_lname varchar2(20),

email varchar2(20)

)""")

cur.execute("""insert into INSTA\_USERS values (1,'Apoorva','Chouhan','apoorva@hotmail.com')""")

cur.execute("""insert into INSTA\_USERS values (2,'Tejas','Jadhav','tejas@gmail.com')""")

cur.execute("""insert into INSTA\_USERS values (5,'Heta','Naik','heta@gmail.com')""")

cur.execute("""insert into INSTA\_USERS values (8,'Malak','Parmar','malak@yahoo.com')""")

cur.execute("""insert into INSTA\_USERS values (10,'Vatsal','Shah','vatsal@ hotmail.com')""")

cur.execute("""insert into INSTA\_USERS values (11,'Nymphia','Wanchoo','nymphia@ yahoo.com') """)

cur.execute(""" CREATE TABLE INSTA\_PICS(

pic\_id number(5) primary key,

pic\_caption varchar2(50),

pic\_path varchar2(50),

pic\_date date,

user\_id number(10) references INSTA\_USERS(user\_id),

arts number(1) DEFAULT 0 NOT NULL,

science number(1) DEFAULT 0 NOT NULL,

music number(1) DEFAULT 0 NOT NULL,

history number(1) DEFAULT 0 NOT NULL,

Engineering number(1) DEFAULT 0 NOT NULL

)""")

cur.execute("""insert into INSTA\_PICS values (1,'holiday','C:/pics/64565hrht4y.jpg','11-Mar-17',1,1,0,0,1,0)""")

cur.execute("""insert into INSTA\_PICS values (2,'holi','C:/mypics/64565hrhjjj4y.jpg','12-May-12',2,0,0,0,1,0)""")

cur.execute("""insert into INSTA\_PICS values (3,'bye','C:/photos/6456aa5t4y.jpg','01-Jan-17',5,0,1,0,1,0)""")

cur.execute("""insert into INSTA\_PICS values (4,'happy','D:/64565sjsjt4y.jpg','11-Feb-17',8,1,0,0,1,0)""")

cur.execute("""insert into INSTA\_PICS values (5,'ssup','D:/pictures/645jajht4y.jpg','11-Mar-17',10,1,0,0,0,1)""")

cur.execute("""insert into INSTA\_PICS values (6,'morning','C:/inpics/6akak65hrht4y.jpg','01-Apr-17',11,0,0,1,1,1)""")

cur.execute("""insert into INSTA\_PICS values (7,'night','C:/pics/647885hrht4y.jpg','11-Aug-17',1,1,0,1,1,1)""")

cur.execute("""insert into INSTA\_PICS values (8,'heyyyaa','C:/tj/pics/6kak565hrht4y.jpg','12-Jul-17',2,0,1,1,1,0)""")

cur.execute("""insert into INSTA\_PICS values (9,'hulalla','C:/files/pics/6jaja65hrht4y.jpg','11-Jul-08',8,0,0,0,1,0)""")

cur.execute("""insert into INSTA\_PICS values (10, 'yoooo', 'D:/mygalery/ajjarht4y.jpg', '02-Oct-18', 5,1,0,1,1,0)""")

cur.execute("""insert into INSTA\_PICS values (11, 'afternoon', 'C:/files/photos/ajaj565hrht4y.jpg', '03-Dec-10',10,1,0,0,1,1)""")

cur.execute("""insert into INSTA\_PICS values (12,'cyaaa','C:/files/img/aajht4y.jpg','04-Jul-11',11,1,0,0,1,1)""")

cur.execute("""insert into INSTA\_PICS values (13,'noname','C:/instaimgs/647885jsjrht4y.jpg','11-Nov-17',5,1,0,1,1,1)""")

cur.execute("""insert into INSTA\_PICS values (14,'justme','D:/instapic/642jmjmjht4y.jpg','11-Sep-17',2,1,0,1,0,1)""")

cur.execute(""" CREATE TABLE INSTA\_LIKES(

pic\_id number(5) references INSTA\_PICS(pic\_id) not null,

user\_id number(10) references INSTA\_USERS(user\_id) not null

)""")

cur.execute("""insert into INSTA\_LIKES values(1,1)""")

cur.execute("""insert into INSTA\_LIKES values(7,2) """)

cur.execute("""insert into INSTA\_LIKES values(2,10)""")

cur.execute("""insert into INSTA\_LIKES values(7,5)""")

cur.execute("""insert into INSTA\_LIKES values(7,8)""")

cur.execute("""insert into INSTA\_LIKES values(7,11)""")

cur.execute("""insert into INSTA\_LIKES values(1,2)""")

cur.execute("""insert into INSTA\_LIKES values(11,10)""")

cur.execute("""insert into INSTA\_LIKES values(10,8)""")

cur.execute("""insert into INSTA\_LIKES values(9,5) """)

cur.execute("""insert into INSTA\_LIKES values(10,11)""")

cur.execute("""insert into INSTA\_LIKES values(12,10) """)

cur.execute("""insert into INSTA\_LIKES values(13,1)""")

cur.execute("""insert into INSTA\_LIKES values(8,1) """)

cur.execute("""insert into INSTA\_LIKES values(2,5) """)

cur.execute("""insert into INSTA\_LIKES values(1,5)""")

cur.execute("""insert into INSTA\_LIKES values(7,10)""")

cur.execute("""insert into INSTA\_LIKES values(6,2) """)

cur.execute("""insert into INSTA\_LIKES values(14,5) """)

cur.execute("""insert into INSTA\_LIKES values(2,1)""")

cur.execute("""insert into INSTA\_LIKES values(14,1)""")

cur.execute("""insert into INSTA\_LIKES values(5,1)""")

cur.execute("""insert into INSTA\_LIKES values(4,11)""")

cur.execute("""insert into INSTA\_LIKES values(2,2)""")

con.commit()

print("Enter your choice:")

print("1-- Max likes")

print("2-- Min likes")

print("3-- Who liked the most")

print("4-- Music pictures")

print("5-- Popular Tag")

print("6-- Most liked user")

print("7-- Old Tagging")

print("8-- Delete inactive users")

print("9-- Exit")

while True:

ch = int(input("Enter Choice: "))

if ch == 1:

cur.execute("""select pic\_id from INSTA\_LIKES group by pic\_id having count(\*)=(select max(count(\*)) from INSTA\_LIKES group by pic\_id)""")

for result in cur:

print("Pic id: ", result[0])

elif ch == 2:

cur.execute("select pic\_id from INSTA\_LIKES group by pic\_id having count(\*)=(select min(count(\*)) from INSTA\_LIKES group by pic\_id)")

for result in cur:

print("Pic id: ", result[0])

elif ch == 3:

cur.execute("select user\_id from INSTA\_LIKES group by user\_id having count(user\_id)=(select max(count(\*)) from INSTA\_LIKES group by user\_id)")

for result in cur:

print("User id: ", result[0])

elif ch == 4:

cur.execute("select pic\_id from INSTA\_PICS where music=1")

for result in cur:

print("Pic id: ", result[0])

elif ch == 5:

max = 0

mm = "All"

cur.execute("select count(\*) from INSTA\_PICS where arts=1")

ft = cur.fetchall()[0][0]

if max < ft:

max = ft

mm = "Arts"

cur.execute("select count(\*) from INSTA\_PICS where history=1")

ft = cur.fetchall()[0][0]

if max < ft:

max = ft

mm = "History"

cur.execute("select count(\*) from INSTA\_PICS where engineering=1")

ft = cur.fetchall()[0][0]

if max < ft:

max = ft

mm = "Engineering"

cur.execute("select count(\*) from INSTA\_PICS where science=1")

ft = cur.fetchall()[0][0]

if max < ft:

max = ft

mm = "Science"

cur.execute("select count(\*) from INSTA\_PICS where music=1")

ft = cur.fetchall()[0][0]

if max < ft:

max = ft

mm = "Music"

print("Most Popular tag is: ", mm)

elif ch == 6:

users=[]

cur.execute("select user\_id from INSTA\_USERS")

for result in cur:

users.append(int(result[0]))

mx = 0

us = 0

for user in users:

cur.execute("select count(\*) from INSTA\_LIKES where pic\_id in (select pic\_id from INSTA\_PICS where user\_id=" +str(user) + ")")

fx = cur.fetchall()[0][0]

if fx > mx:

mx = fx

us = user

print("Most liked user is: ", us)

elif ch == 7:

cur.execute("select pic\_id from INSTA\_PICS where extract(year from sysdate)-extract(year from pic\_date)>=3")

print("Old Pics (Pic ids): ")

for result in cur:

print(result[0])

elif ch == 8:

cur.execute("SELECT user\_id from INSTA\_PICS where extract(year from sysdate)-extract(year from pic\_date)<=1")

result = cur.fetchall()

for res in result:

temp = str(res[0])

cur.execute("Delete from INSTA\_LIKES where user\_id=" + str(res[0]))

con.commit()

cur.execute("SELECT \* FROM INSTA\_LIKES")

print(cur.fetchall())

con.commit()

cur.execute("Delete from INSTA\_PICS where user\_id=" + str(res[0]))

con.commit()

cur.execute("Delete from INSTA\_USERS where user\_id=" + str(res[0]))

print("User ", res[0], " deleted")

elif ch == 9:

break

con.commit()

con.close()

**Output –**



