DATABASE MANAGEMENT SYSTEMS SQL PRACTICE -1

NAME: HARINI.R

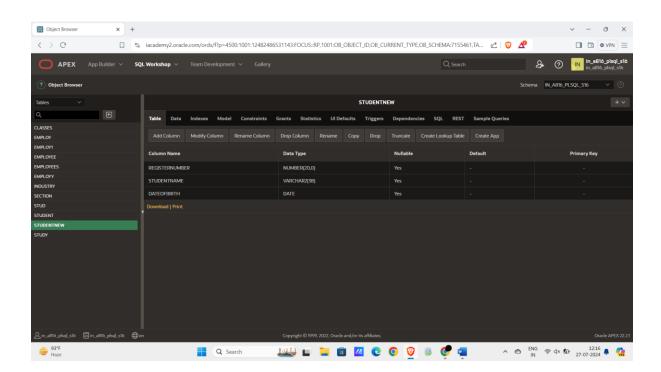
REGISTER NO: 192324108

COURSE CODE: CSA0564

CREATE TABLE StudentNew(registerNumber number(20),

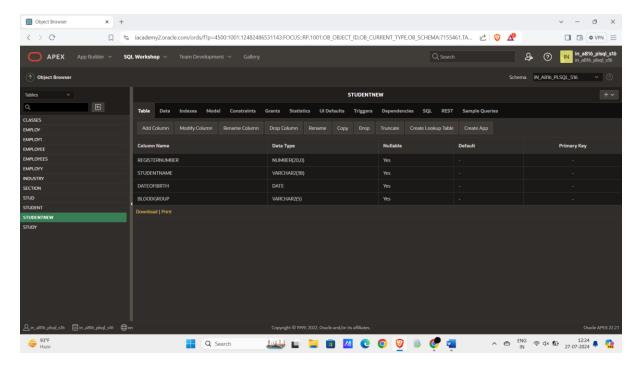
StudentName varchar(38),

dateOfBirth date);

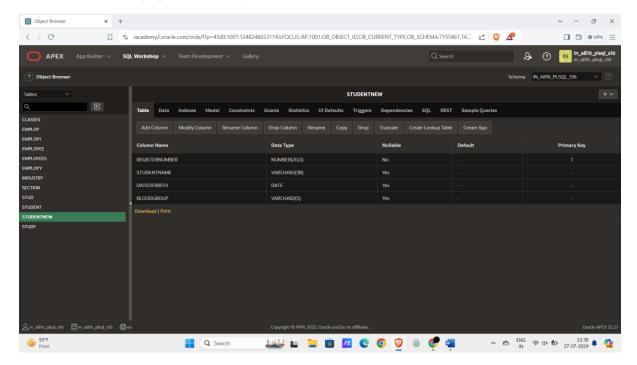


ALTER TABLE StudentNew

ADD bloodGroup varchar(5);

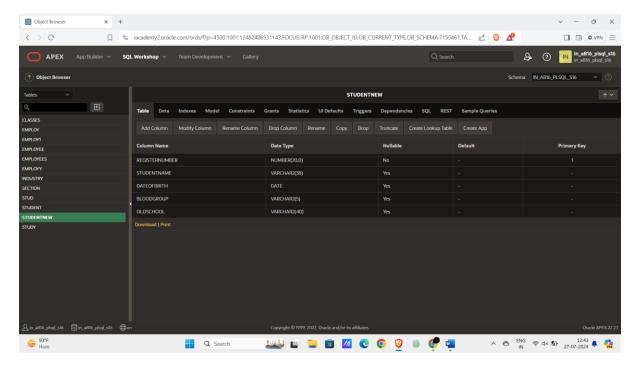


ADD PRIMARY KEY (registerNumber);

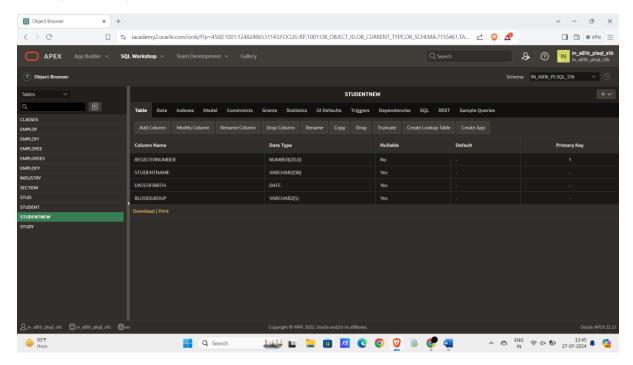


ALTER TABLE StudentNew

ADD oldSchool varchar(40);

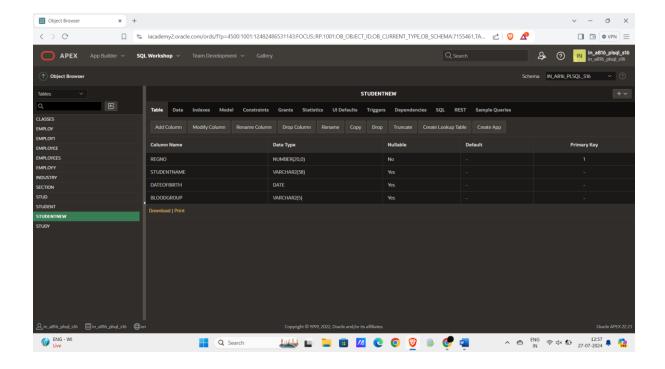


DROP (oldSchool);

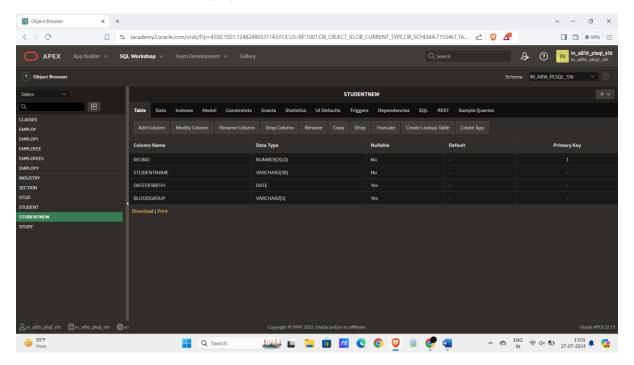


ALTER TABLE StudentNew

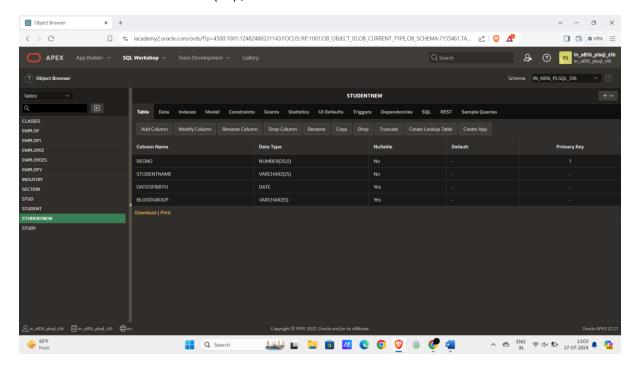
RENAME COLUMN registerNumber TO RegNo;



MODIFY StudentName varchar(38) NOT NULL;

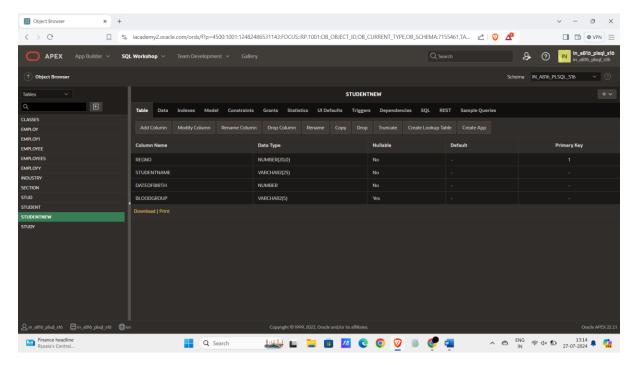


MODIFY StudentName varchar(25);



ALTER TABLE StudentNew

MODIFY dateOfBirth NUMERIC NOT NULL;



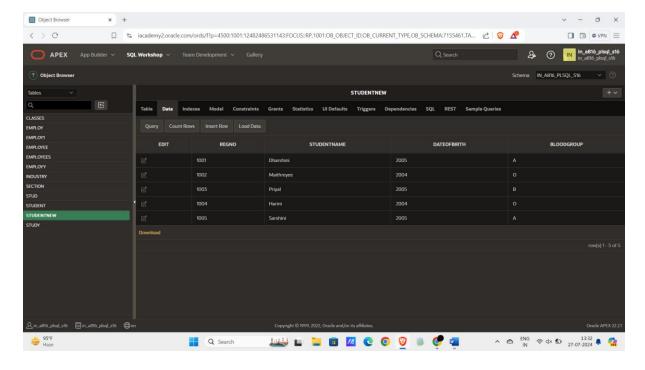
INSERT INTO StudentNew VALUES(1001, 'Dharshini', 2005, 'A');

INSERT INTO StudentNew VALUES(1002, 'Maithreyee', 2004, 'O');

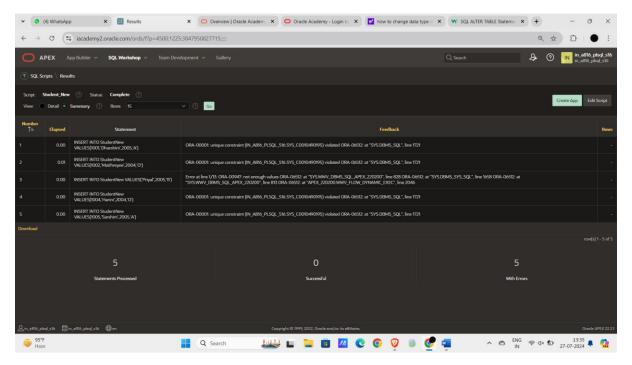
INSERT INTO StudentNew VALUES(1003, 'Priyal', 2005, 'B');

INSERT INTO StudentNew VALUES(1004, 'Harini', 2004, 'O');

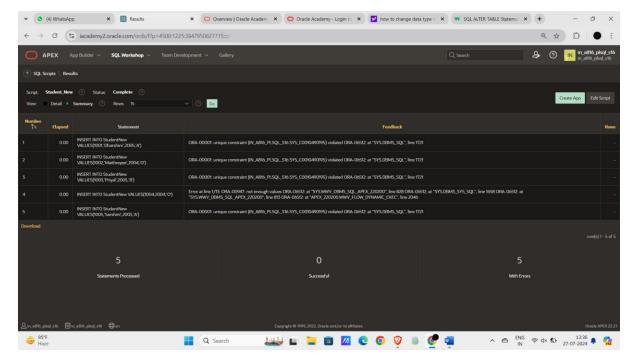
INSERT INTO StudentNew VALUES(1005, 'Sarshini', 2005, 'A');



Primary Constraint check:



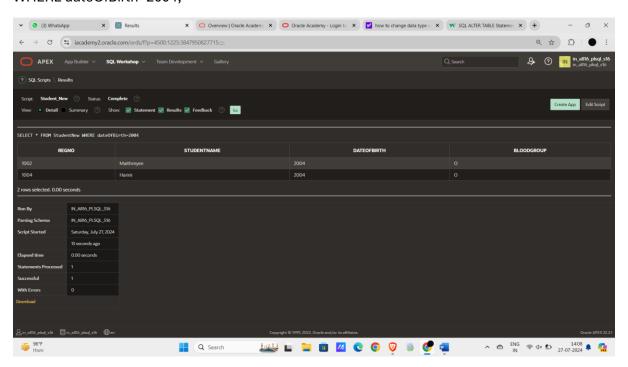
Not Nullable check:



SELECT *

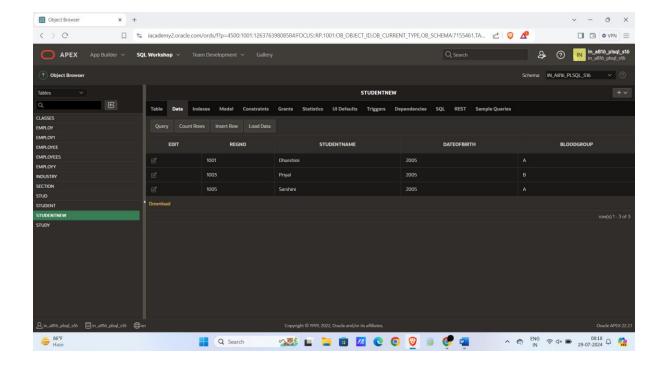
FROM StudentNew

WHERE dateOfBirth=2004;

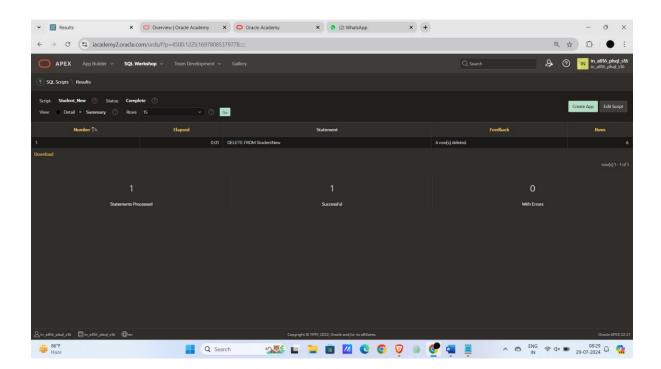


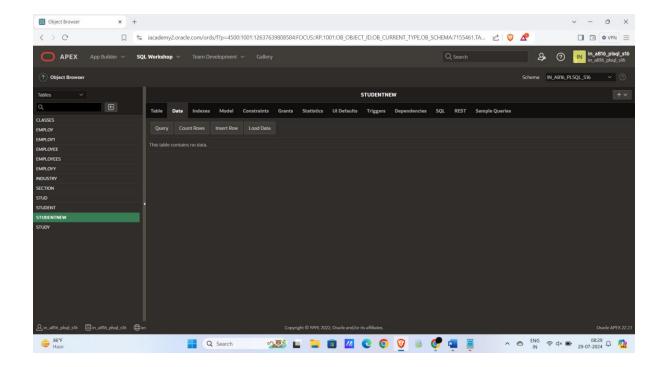
DELETE FROM StudentNew

WHERE dateOfBirth= 2004;

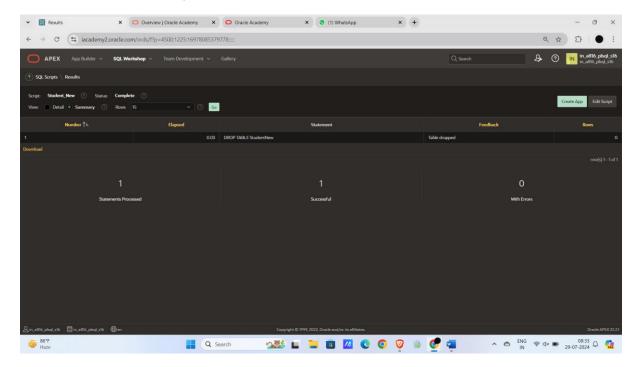


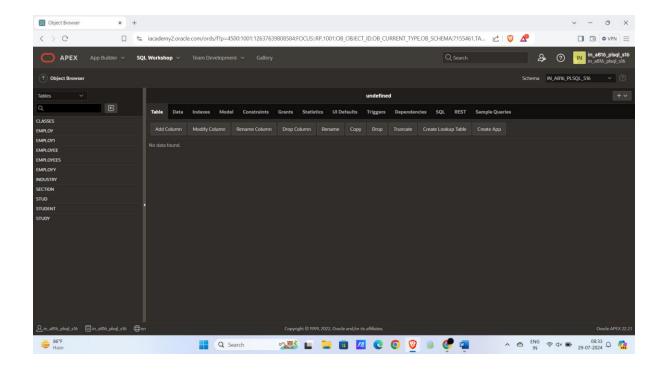
DELETE FROM StudentNew;





DROP TABLE StudentNew;

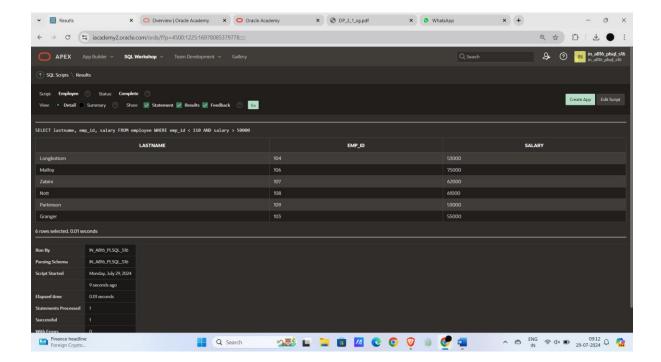




SELECT lastname, emp_id, salary

FROM employee

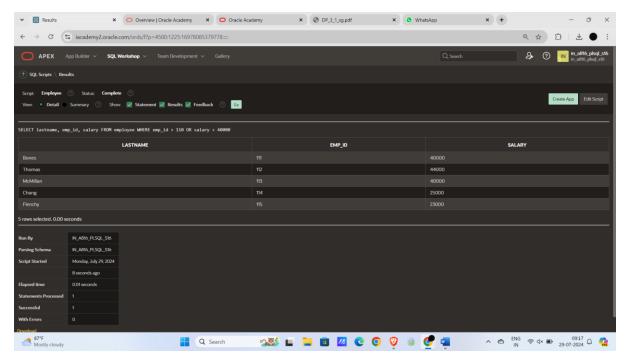
WHERE emp_id < 110 AND salary > 50000;



SELECT lastname, emp_id, salary

FROM employee

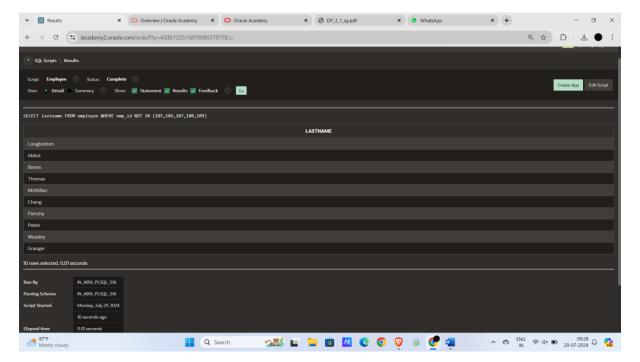
WHERE emp_id > 110 OR salary < 40000;



SELECT lastname

FROM employee

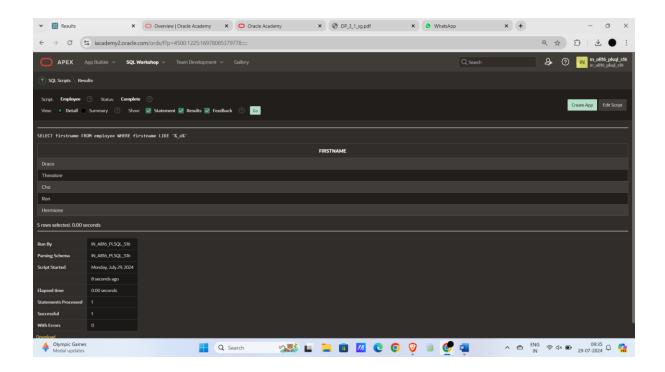
WHERE emp_id NOT IN (105,106,107,108,109);



SELECT firstname

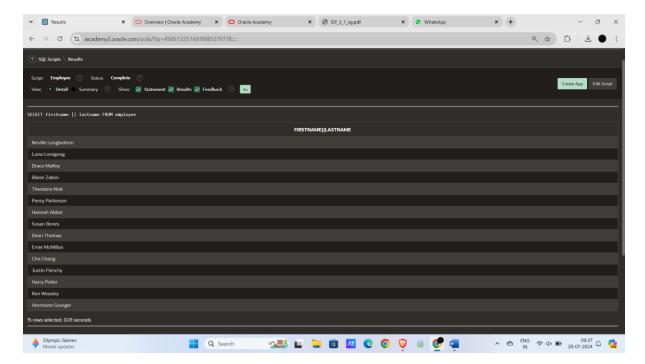
FROM employee

WHERE firstname LIKE '%_o%';



SELECT firstname || lastname

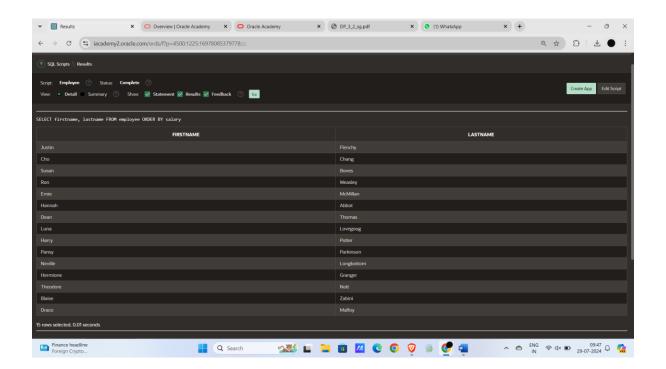
FROM employee;



SELECT firstname, lastname

FROM employee

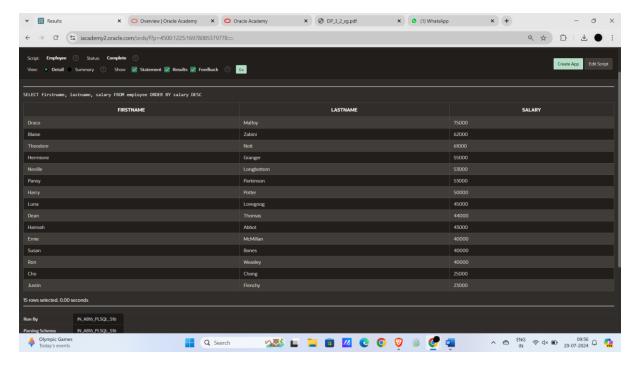
ORDER BY salary;



SELECT firstname, lastname, salary

FROM employee

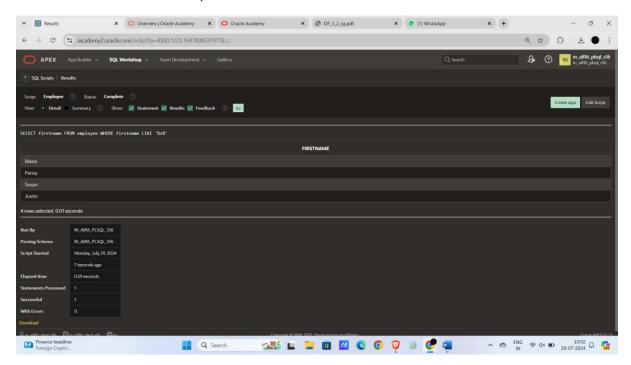
ORDER BY salary DESC;



SELECT firstname

FROM employee

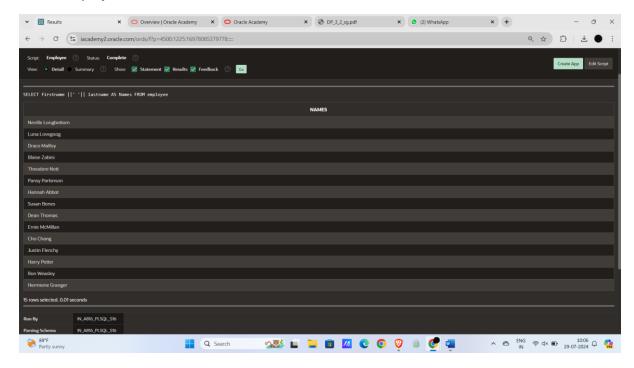
WHERE firstname LIKE '%s%';



SELECT firstname ||' '|| lastname

AS Names

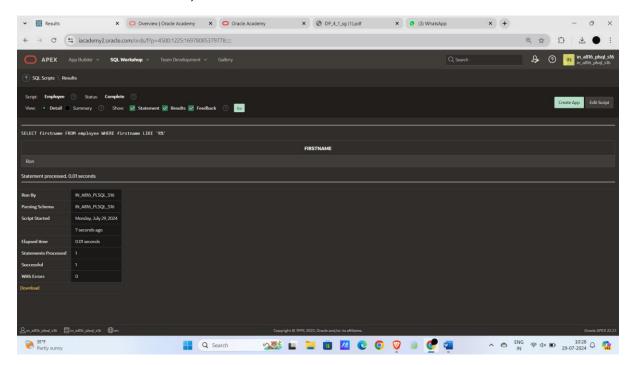
FROM employee;

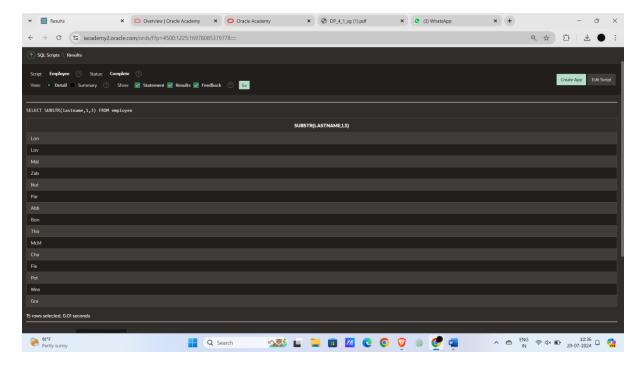


SELECT firstname

FROM employee

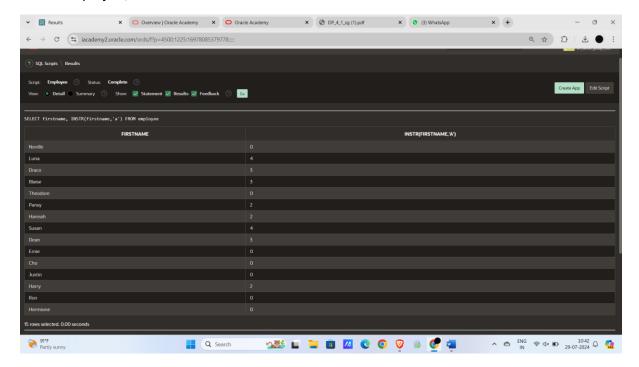
WHERE firstname LIKE 'R%';





SELECT firstname, INSTR(firstname, 'a')

FROM employee;



CREATE TABLE Person(personID integer PRIMARY KEY,

personName varchar(40),

email varchar(50),

phoneNumber numeric);

CREATE TABLE Orders(orderID integer PRIMARY KEY,

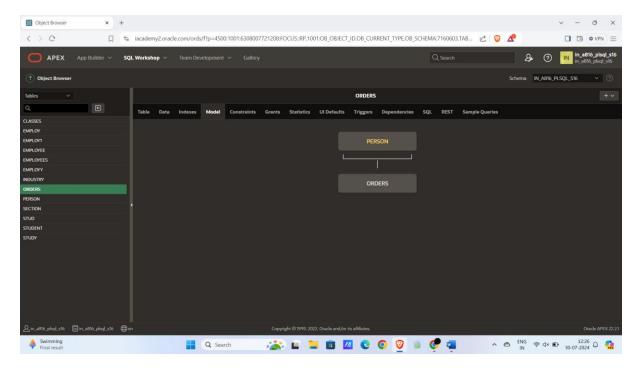
personID integer NOT NULL,

orderAmount integer);

FOREIGN KEY:

ALTER TABLE Orders

ADD FOREIGN KEY(personID) REFERENCES Person(personID);

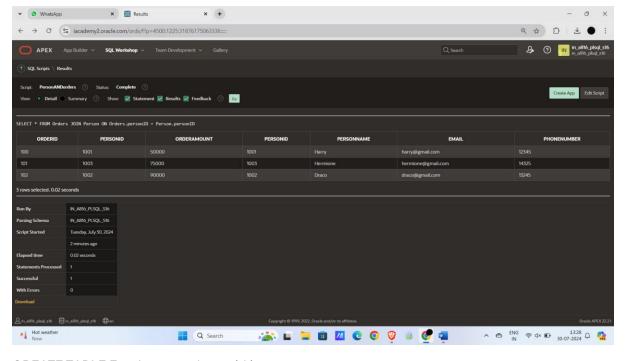


SELECT *

FROM Orders

JOIN Person

ON Orders.personID = Person.personID;



CREATE TABLE Employee123(emp_id integer,

firstName varchar(35),

lastName varchar(35),

dept_id integer);

INSERT INTO Employee123 VALUES(1001, 'Harry', 'Styles', 90);

INSERT INTO Employee123 VALUES(1002, 'Taylor', 'Swift', 90);

INSERT INTO Employee123 VALUES(1003, 'Olivia', 'Rodrigo', 80);

INSERT INTO Employee123 VALUES(1004, 'Sabrina', 'Carpenter', 80);

INSERT INTO Employee123 VALUES(1005, 'Shawn', 'Mendes', 60);

INSERT INTO Employee123 VALUES(1006, 'Camilla', 'Cabello', 70);

INSERT INTO Employee123 VALUES(1007, 'Megan', 'Trainor', 50);

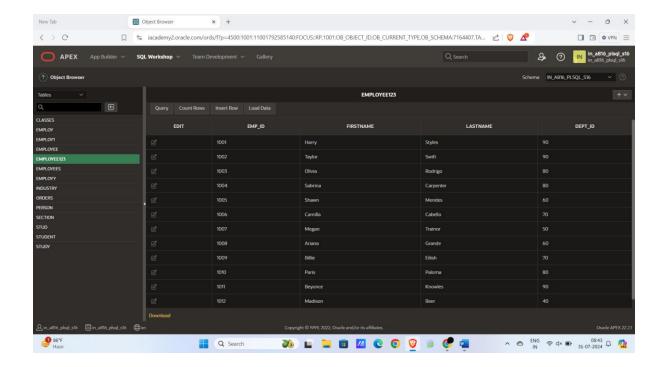
INSERT INTO Employee123 VALUES(1008, 'Ariana', 'Grande', 60);

INSERT INTO Employee123 VALUES(1009, 'Billie', 'Eilish', 70);

INSERT INTO Employee123 VALUES(1010, 'Paris', 'Paloma', 80);

INSERT INTO Employee123 VALUES(1011, 'Beyonce', 'Knowles', 90);

INSERT INTO Employee123 VALUES(1012, 'Madison', 'Beer', 40);



SELECT lastName,

CASE dept_id

WHEN 90 THEN 'Management'

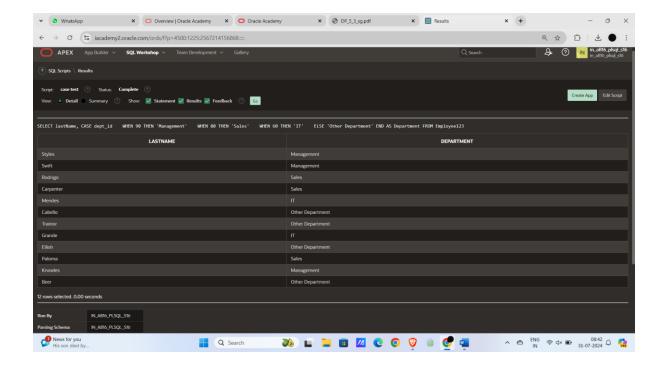
WHEN 80 THEN 'Sales'

WHEN 60 THEN 'IT'

ELSE 'Other Department'

END AS Department

FROM Employee123;



SELECT lastName,

DECODE(dept_id,

90, 'Management',

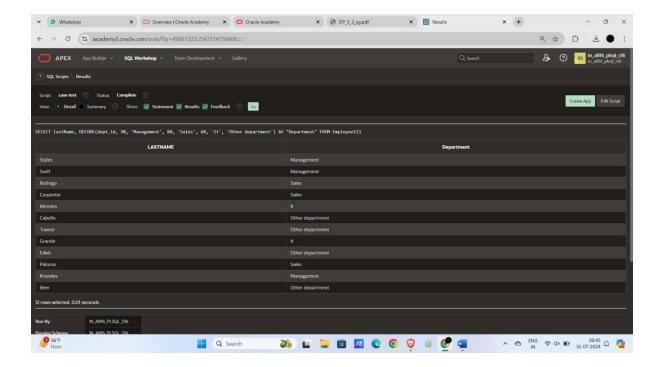
80, 'Sales',

60, 'It',

'Other department')

AS "Department"

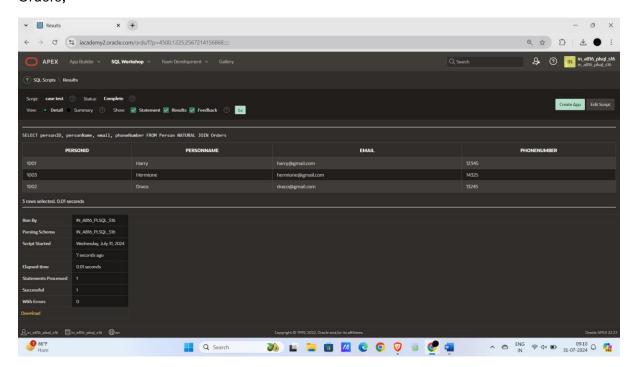
FROM Employee123;



SELECT personID, personName, email, phoneNumber

FROM Person NATURAL JOIN

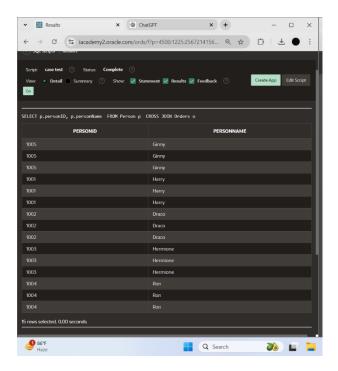
Orders;



SELECT personID, personName

FROM Person NATURAL JOIN

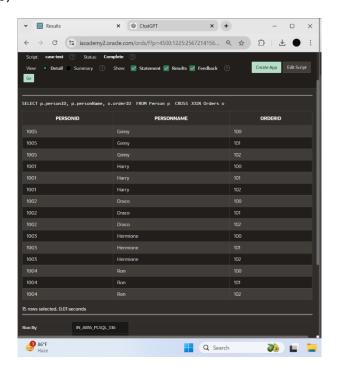
Orders;



SELECT p.personID, p.personName, o.orderID

FROM Person p

CROSS JOIN Orders o;

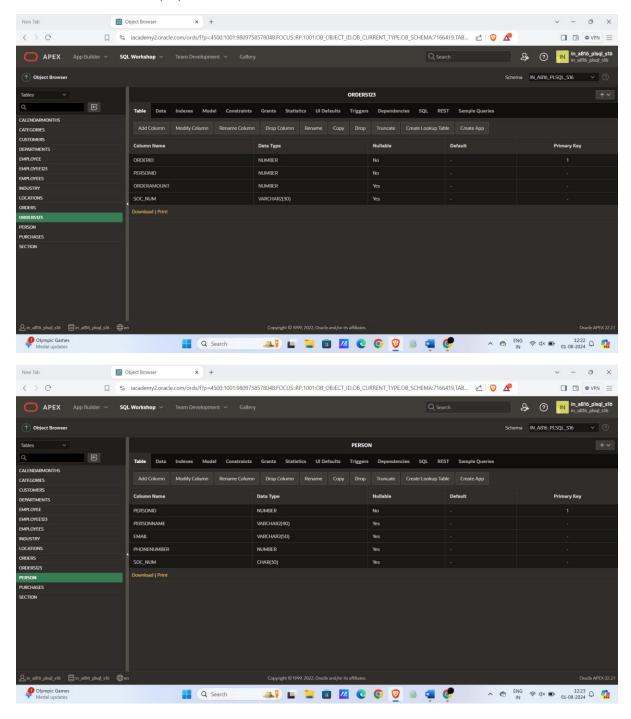


ALTER TABLE Person

ADD Soc_num char(30);

ALTER TABLE Orders123

ADD Soc_num varchar(30);



SELECT Orders123.OrderID, Person.PersonID, Person.PersonName, Person.PhoneNumber, Person.Soc_num

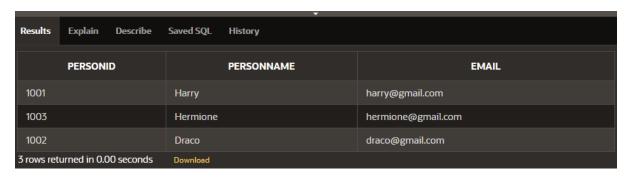
FROM Orders123 JOIN Person ON Orders123.Soc_num = Person.Soc_num;

SELECT personID, personName, email

FROM Person

JOIN Orders123

USING (personID);



CREATE TABLE Person(personName varchar(25),

deptID varchar(20));

CREATE TABLE Department(deptID numeric,

orderNo numeric);

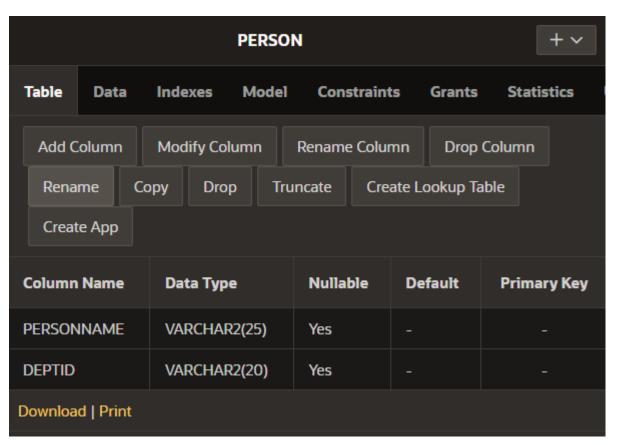
INSERT INTO person VALUES('Liam','101');

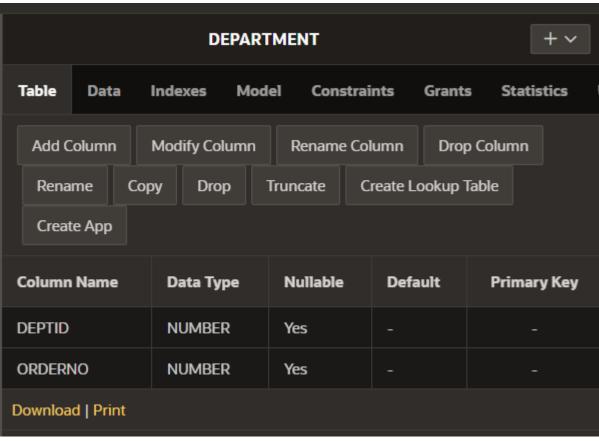
INSERT INTO person VALUES('Chris','102');

INSERT INTO person VALUES('Nick','103');

INSERT INTO Department VALUES(101,12345);

INSERT INTO Department VALUES(102,67891);





SELECT personName, deptID

FROM Person JOIN Department USING (deptID);

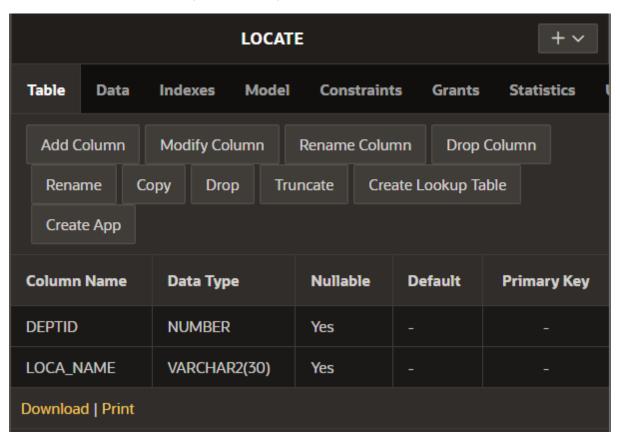
SELECT personName, deptID FROM Person JOIN Department USING (deptID)		
PERSONNAME	DEPTID	
Liam	101	
Chris	102	
2 rows selected. 0.01 seconds		

CREATE TABLE Locate(deptID numeric,

Loca_name varchar(30));

INSERT INTO Locate VALUES(101, 'Newyork');

INSERT INTO Locate VALUES(102, 'London');



SELECT personName, deptID AS "Department", Locate.Loca_name

FROM Person JOIN Department USING (deptID)

JOIN Locate USING (deptID);

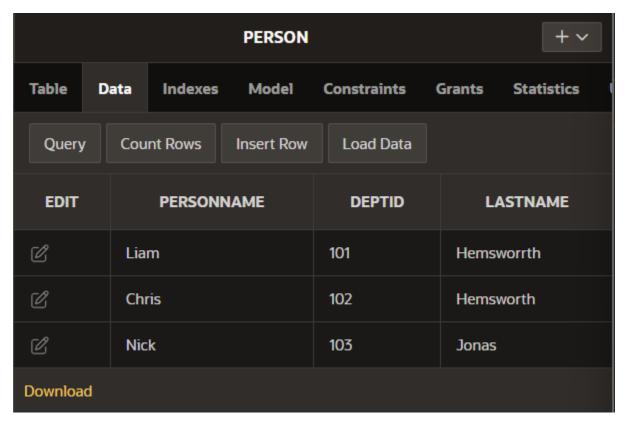


ALTER TABLE Person

ADD LastName varchar(30);

ALTER TABLE Department

ADD deptName varchar(30);



UPDATE Person SET LastName = 'Hemsworth' WHERE personName='Chris';

UPDATE Person SET LastName = 'Hemsworrth' WHERE personName='Liam';

UPDATE Person SET LastName = 'Jonas' WHERE personName='Nick';

UPDATE Department SET deptName = 'sales' WHERE deptID= 101;

UPDATE Department SET deptName = 'management' WHERE deptId= 102;

SELECT p.LastName, d.deptID,

d.deptName

FROM Person p LEFT OUTER JOIN

department d

ON (p.deptID =

d.deptID);

SELECT p.LastName, d.deptID, d.deptName FROM Person p LEFT OUTER JOIN department d ON (p.deptID = d.deptID)				
LASTNAME	DEPTID	DEPTNAME		
Hemsworrth	101	sales		
Cage	101	sales		
Hemsworth	102	management		
Radcliffe	102	management		
Hemsworrth	101	sales		
Cage	101	sales		
Hemsworth	102	management		
Radcliffe	102	management		
Jonas	103	HR		
Pattinson	103	HR		
Hemsworth	102	management		
Radcliffe	102	management		
Riddle				
Grint				
14 rows selected. 0.01 seconds				

SELECT p.LastName, d.deptID,

d.deptName

FROM Person p RIGHT OUTER JOIN

department d

ON (p.deptID =

d.deptID);

SELECT p.LastName, d.deptID, d.deptName FROM Person p RIGHT OUTER JOIN department d ON (p.deptID = d.deptID)				
LASTNAME	DEPTID	DEPTNAME		
Hemsworrth	101	sales		
Hemsworrth	101	sales		
Hemsworth	102	management		
Hemsworth	102	management		
Hemsworth	102	management		
Jonas	103	HR		
Cage	101	sales		
Cage	101	sales		
Pattinson	103	HR		
Radcliffe	102	management		
Radcliffe	102	management		
Radcliffe	102	management		
2 rows selected. 0.01 seconds				

SELECT p.LastName, d.deptID,

d.deptName

FROM Person p FULL OUTER JOIN

department d

ON (p.deptID =

d.deptID);

SELECT p.LastName, d.deptID, d.deptName FROM Person p FULL OUTER JOIN department d ON (p.deptID = d.deptID)

LASTNAME	DEPTID	DEPTNAME
Hemsworrth	101	sales
Hemsworrth	101	sales
Hemsworth	102	management
Hemsworth	102	management
Hemsworth	102	management
Jonas	103	HR
Cage	101	sales
Cage	101	sales
Pattinson	103	HR
Radcliffe	102	management
Radcliffe	102	management
Radcliffe	102	management
Grint		
Riddle		

14 rows selected. 0.01 seconds

SELECT p.LastName || 'works in ' || d.deptName

AS "Works "

FROM Person p JOIN Department d

ON (p.deptID = d.deptID);

SELECT p.LastName ' works in ' d.deptName AS "Works " FROM Person p JOIN Department d ON (p.deptID = d.deptID)
Works
Hemsworrth works in sales
Hemsworrth works in sales
Hemsworth works in management
Hemsworth works in management
Hemsworth works in management
Jonas works in HR
Cage works in sales
Cage works in sales
Pattinson works in HR
Radcliffe works in management
Radcliffe works in management
Radcliffe works in management
12 rows selected. 0.00 seconds