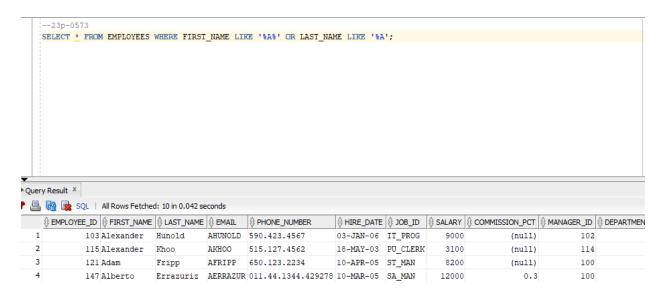
Name Haris

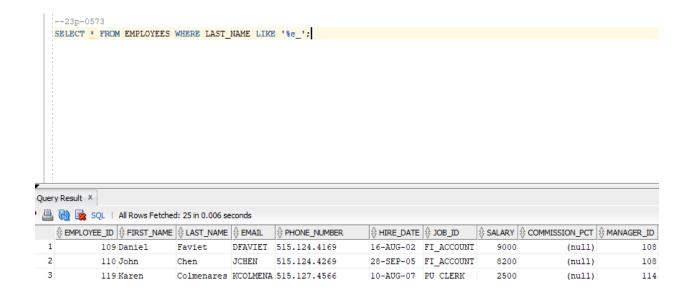
Roll # 23P-0573

(1)

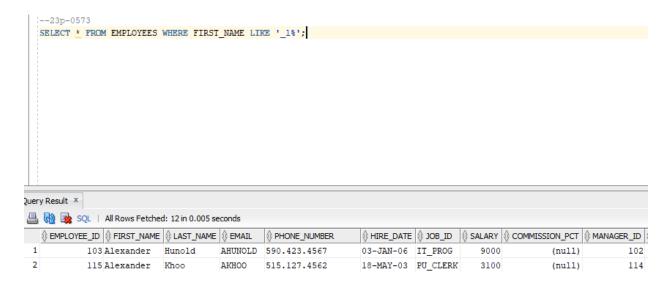
SELECT * FROM EMPLOYEES WHERE FIRST_NAME LIKE '% A%' OR LAST_NAME LIKE '% A';



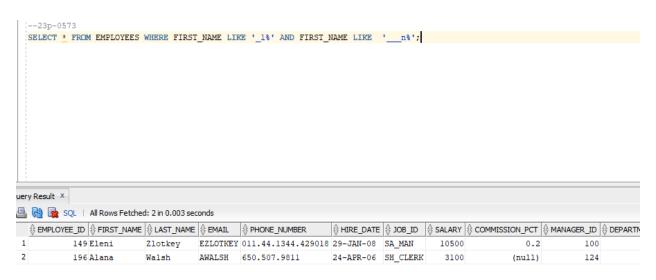
SELECT * FROM EMPLOYEES WHERE LAST_NAME LIKE '%e_';



SELECT * FROM EMPLOYEES WHERE FIRST_NAME LIKE '_l\%';

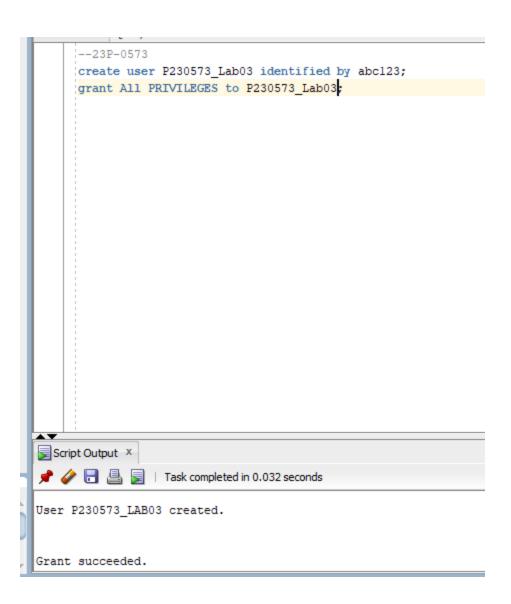


SELECT * FROM EMPLOYEES WHERE FIRST_NAME LIKE '_I%' AND FIRST_NAME LIKE '__n%';



(2)

create user P230573_Lab03 identified by abc123; grant All PRIVILEGES to P230559_Lab03;



(3) create table Employees(

Employee_id INT,

Full_Name VARCHAR(100),

Salary INT,

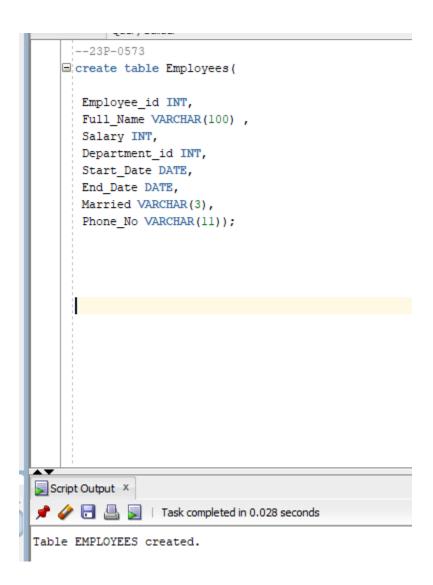
Department_id INT,

Start_Date DATE,

End_Date DATE,

Married VARCHAR(3),

Phone_No VARCHAR(11)



(4) create table Departments(

Department_id INT,

Department_name VARCHAR(20),

Department_code VARCHAR(10),

Date_Founded DATE

```
--23P-0573

--23P-0573

--create table Departments(
Department_id INT,
Department_name VARCHAR(20),
Department_code VARCHAR(10),
Date_Founded DATE

;

Script Output ×
```

Table DEPARTMENTS created.

📌 🧽 🔡 💂 📘 | Task completed in 0.024 seconds

(5) ALTER TABLE DEPARTMENTS ADD CONSTRAINT UNIQUE_DEP_NAME UNIQUE (DEPARTMENT_NAME);

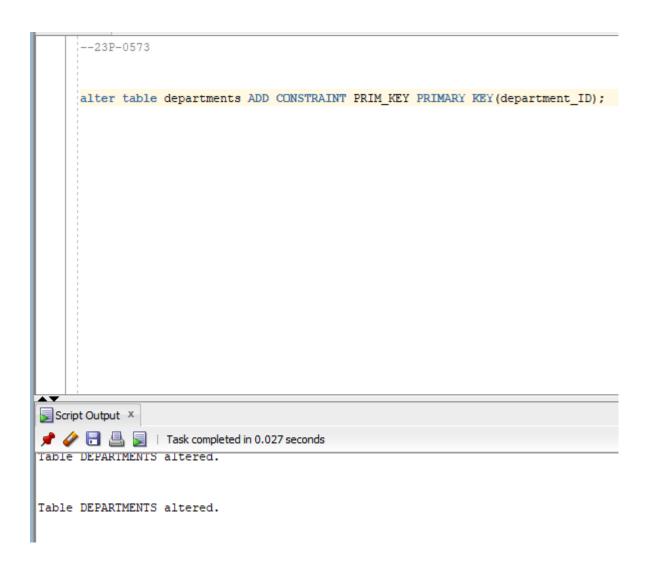
ALTER TABLE DEPARTMENTS ADD CONSTRAINT CHECK_DATE_FOUNDED CHECK (DATE_FOUNDED > TO_DATE('2000-01-01', 'YYYY-MM-DD'));



Table DEPARTMENTS altered.

Table DEPARTMENTS altered.

(6) alter table departments ADD CONSTRAINT PRIM_KEY PRIMARY KEY(department_ID);



(7) ALTER TABLE EMPLOYEES ADD CONSTRAINT FOREIGN_KEY FOREIGN KEY (DEPARTMENT_ID) REFERENCES DEPARTMENTS(DEPARTMENT_ID);



Table EMPLOYEES altered.

(8) INSERT INTO EMPLOYEES

(EMPLOYEE_ID,DEPARTMENT_ID,FULL_NAME,SALARY,START_DATE,END_DATE, MARRIED,PHONE_NO) VALUES (5,105,'saleeem',78000,TO_DATE('2000-3-1','YYYY-MM-DD'), null,'yes','654654');



1 row inserted.

(9)

ALTER TABLE DEPARTMENTS ADD SPECIALITY VARCHAR(30) DEFAULT 'None';

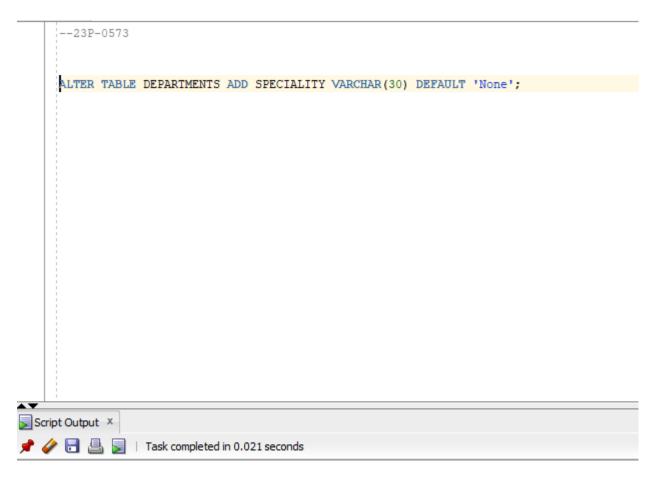


Table DEPARTMENTS altered.

```
(10)

CREATE table jobs(

job_ID int,

jbo_title varchar(40),

min_salary int,

max_salary int
);
```

```
INSERT INTO DEPARTMENTS (DEPARTMENT_ID, DEPARTMENT_NAME, DEPARTMENT_CODE, DATE_FOUNDED)

VALUES (105, 'Technical Support', 930, TO_DATE('2001-01-20', 'YYYY-MM-DD'));

INSERT INTO EMPLOYEES (EMPLOYEE_ID, DEPARTMENT_ID, FULL_NAME, SALARY, START_DATE, END_DATE, MARRIED, PHONE_NO) VALUES (5,105, 'saleeem', 78000, TO_DATE('2000-3-1', 'YYYY-MM-DD'), null, 'yes', '654654');

Script Output ×

Script Output ×

Task completed in 0.024 seconds
```

1 row inserted.

(10)

);

CREATE table jobs(

job_ID int,

jbo_title varchar(40),

min_salary int,

max_salary int

```
CREATE table jobs(
    job_ID int,
    jbo_title varchar(40),
    min_salary int,
    max_salary int
);

Script Output x

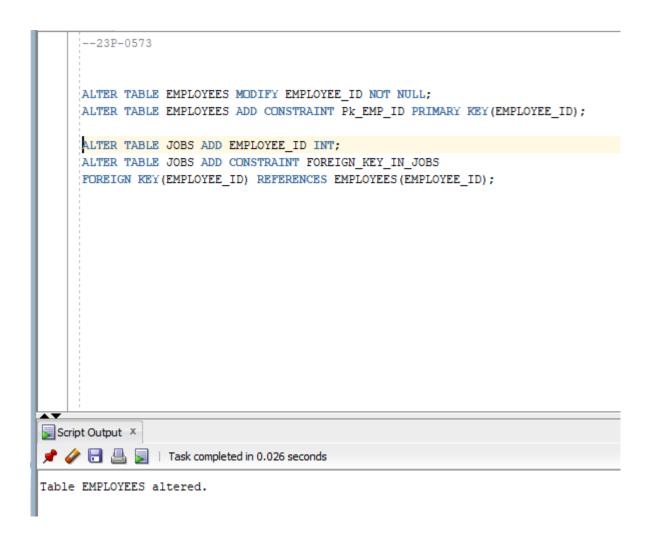
    left    left
```

(11) ALTER TABLE JOBS MODIFY JOB_ID INT NOT NULL, ADD CONSTRAINT JOB_ID_PRI PRIMARY KEY (JOB_ID);

ALTER TABLE JOBS MODIFY JOB_ID INT NOT NULL, ADD CONSTRAINT JOB_ID_PRI PRIMARY KEY (JOB_ID);																		
ALTER TABLE JOBS MODIFY JOB_ID INT NOT NULL, ADD CONSTRAINT JOB_ID_PRI PRIMARY KEY (JOB_ID);	-	23P	-0573															
	A	LTER	TABLE	JOBS	MODIFY	JOB_ID	INT	NOT	NULL,	ADD	CONSTRAINT	JOB	ID_PRI	PRIMARY	KEY	(JOB_	ID);	

(12) ALTER TABLE EMPLOYEES MODIFY EMPLOYEE_ID NOT NULL; ALTER TABLE EMPLOYEES ADD CONSTRAINT Pk_EMP_ID PRIMARY KEY(EMPLOYEE_ID);

ALTER TABLE JOBS ADD EMPLOYEE_ID INT; ALTER TABLE JOBS ADD CONSTRAINT FOREIGN_KEY_IN_JOBS FOREIGN KEY(EMPLOYEE_ID) REFERENCES EMPLOYEES(EMPLOYEE_ID);

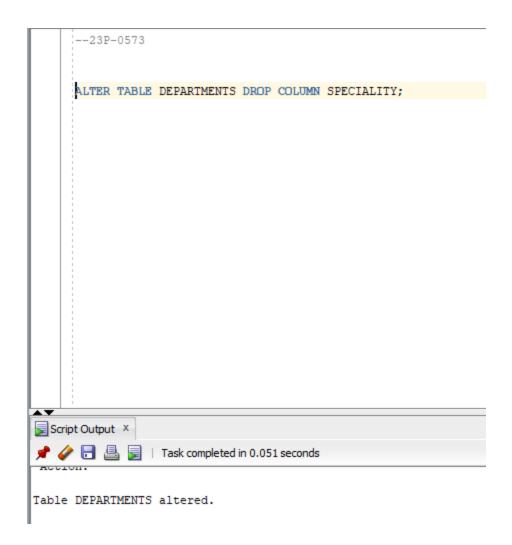


(13) INSERT INTO JOBS (JOB_ID, JOB_TITLE, MIN_SALARY, MAX_SALARY, EMPLOYEE_ID) VALUES (3, 'MANAGER', 500, 500000, 2);



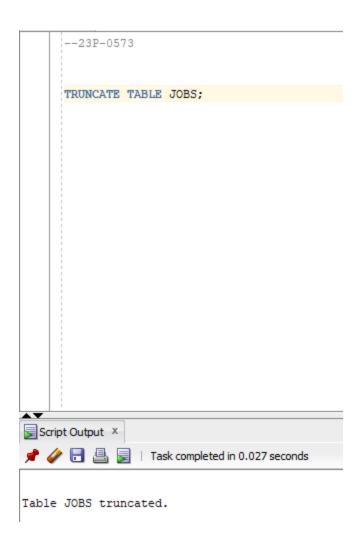
(14)

ALTER TABLE DEPARTMENTS DROP COLUMN SPECIALITY;

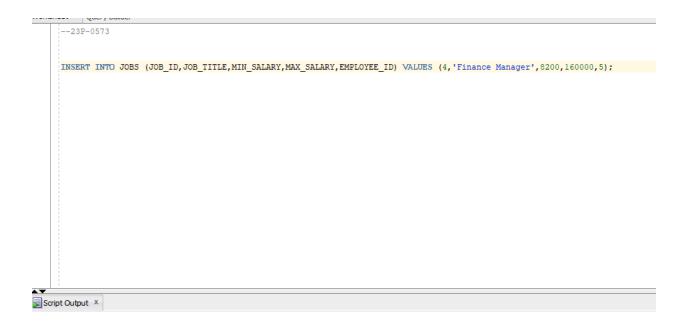


(15)

TRUNCATE TABLE JOBS;



(16) INTO JOBS (JOB_ID, JOB_TITLE, MIN_SALARY, MAX_SALARY, EMPLOYEE_ID) VALUES (4, 'Finance Manager', 8200, 160000, 5);



(17) update EMPLOYEES set full_name = upper(FULL_NAME);

-- update the fullname to the capital

ALTER TABLE EMPLOYEES ADD CONSTRAINT CHECK_FULL_NAME CHECK (FULL_NAME = UPPER(FULL_NAME));

```
update EMPLOYEES set full_name = upper(FULL_NAME);
-- update the fullname to the capital

ALTER TABLE EMPLOYEES ADD CONSTRAINT CHECK_FULL_NAME CHECK
(FULL_NAME = UPPER(FULL_NAME));

Script Output ×

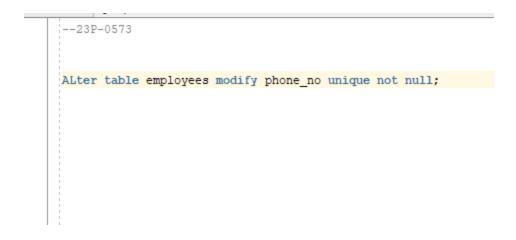
Script Output ×

Task completed in 0.025 seconds

4 rows updated.
```

(18)

ALter table employees modify phone_no unique not null;



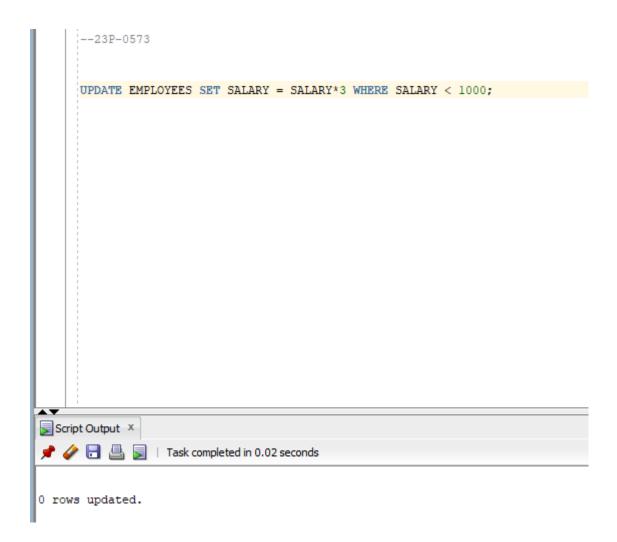
(19) insert into employees

(EMPLOYEE_ID,full_name,salary,department_id,start_date,end_date,married,phone_NO)v alues(6,'HARIS',90000,105,TO_DATE('2020-11-18', 'YYYY-MM-DD'),NULL,'NO',3000000);



(20)

UPDATE EMPLOYEES SET SALARY = SALARY*3 WHERE SALARY < 1000;



(21) ALTER TABLE EMPLOYEES RENAME COLUMN PHONE_NO TO PHONE_NUMBER; ALTER TABLE JOBS DROP CONSTRAINT FOREIGN_KEY_IN_JOBS; RENAME JOBS TO job_details;

ALTER TABLE JOB_DETAILS ADD CONSTRAINT FOREIGN_KEY_IN_JOBS_ID FOREIGN KEY (EMPLOYEE_ID) REFERENCES EMPLOYEES (EMPLOYEE_ID);

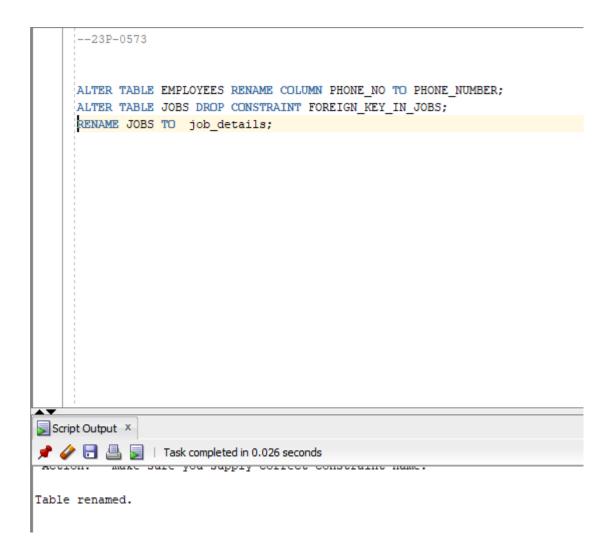
ALTER TABLE EMPLOYEES RENAME COLUMN PHONE_NO TO PHONE_NUMBER;
ALTER TABLE JOBS DROP CONSTRAINT FOREIGN_KEY_IN_JOBS;
RENAME JOBS TO job_details;

Script Output ×

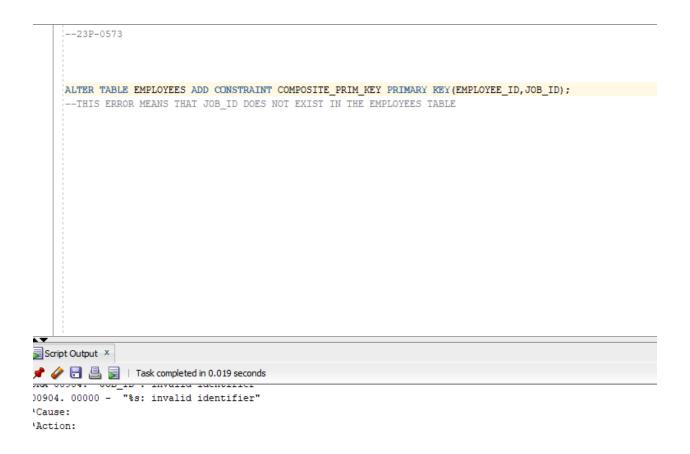
Script Output ×

Table Table Table Table To Job Seconds

Rector: make Juic you supply collect constraint name.



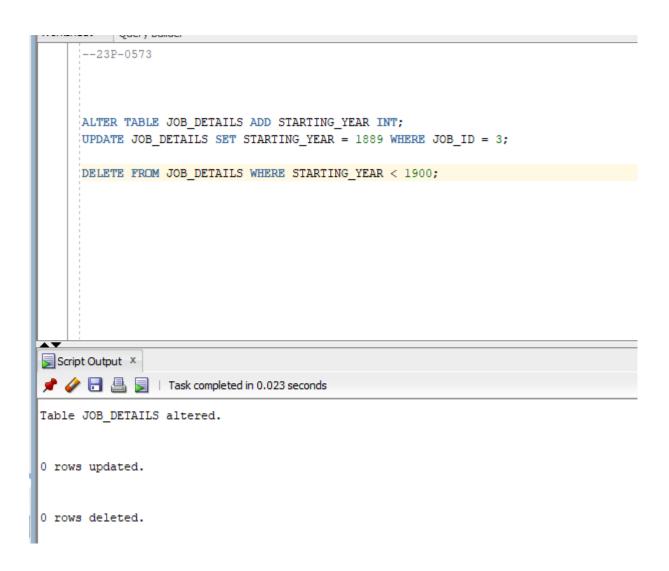
- (22) ALTER TABLE EMPLOYEES ADD CONSTRAINT COMPOSITE_PRIM_KEY PRIMARY KEY(EMPLOYEE_ID,JOB_ID);
- --THIS ERROR MEANS THAT JOB_ID DOES NOT EXIST IN THE EMPLOYEES TABLE



(23)

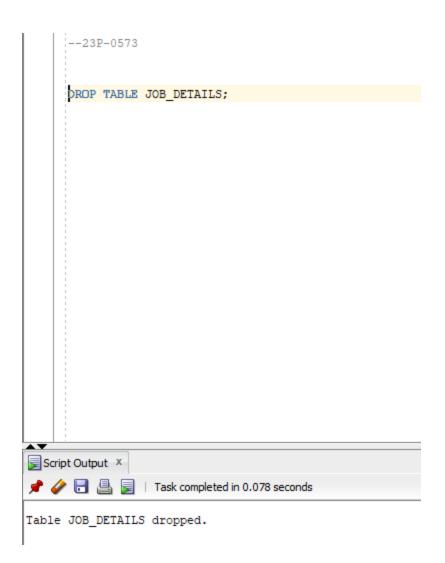
ALTER TABLE JOB_DETAILS ADD STARTING_YEAR INT; UPDATE JOB_DETAILS SET STARTING_YEAR = 1889 WHERE JOB_ID = 3;

DELETE FROM JOB_DETAILS WHERE STARTING_YEAR < 1900;



(24)

DROP TABLE JOB_DETAILS;



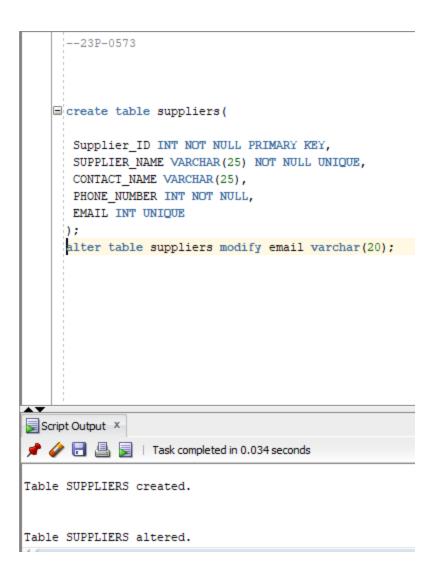
(25)

CREATE INDEX indx_employee_id ON EMPLOYEES(EMPLOYEE_ID); CREATE INDEX indx_department_id ON EMPLOYEES(DEPARTMENT_ID);



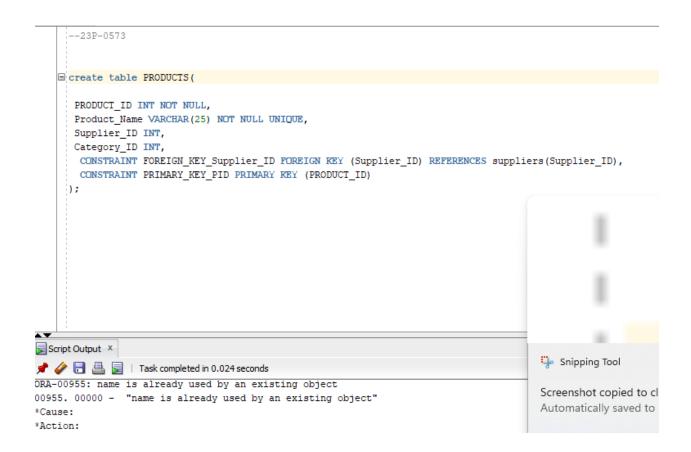
CONTACT_NAME VARCHAR(25), PHONE_NUMBER INT NOT NULL, EMAIL INT UNIQUE);

alter table suppliers modify email varchar(20);



(27) create table PRODUCTS(

PRODUCT_ID INT NOT NULL, Product_Name VARCHAR(25) NOT NULL UNIQUE, Supplier_ID INT, Category_ID INT, CONSTRAINT FOREIGN_KEY_Supplier_ID FOREIGN KEY (Supplier_ID) REFERENCES suppliers(Supplier_ID), CONSTRAINT PRIMARY_KEY_PID PRIMARY KEY (PRODUCT_ID));



(28) INSERT INTO SUPPLIERS
(SUPPLIER_ID,SUPPLIER_NAME,CONTACT_NAME,PHONE_NUMBER,EMAIL) VALUES
(5,'COMPANY1','mubeen',32014451,'fakegmail');

INSERT INTO PRODUCTS (PRODUCT_ID, PRODUCT_NAME, SUPPLIER_ID, CATEGORY_ID) VALUES (5, 'ELECTRONICS', 3, 4);

INSERT INTO SUPPLIERS (SUPPLIER_ID, SUPPLIER_NAME, CONTACT_NAME, PHONE_NUMBER, EMAIL) VALUES (5, 'COMPANY1', 'mubeen', 32014451, 'fakegmail');

INSERT INTO PRODUCTS (PRODUCT_ID, PRODUCT_NAME, SUPPLIER_ID, CATEGORY_ID) VALUES (5, 'ELECTRONICS', 3, 4);

Script Output x

Script Output x

Task completed in 0.03 seconds
*Action:

1 row inserted.