DBS LAB 03 23k-0842

```
SQL> connect sys as sysdba
Enter password:
Connected.
SQL> create user kinza identified by password2;
User created.

SQL> grant all privileges to kinza;
Grant succeeded.

SQL>
```

SQL> CONNECT kinza/password2
Connected.

1. CREATE TABLE students(
student_id NUMBER PRIMARY KEY,
student_name VARCHAR(50) NOT NULL,
email VARCHAR(50) NOT NULL
);

Welcome Page × hr.sql × kinza23k0842 × hr ×

Worksheet Query Builder

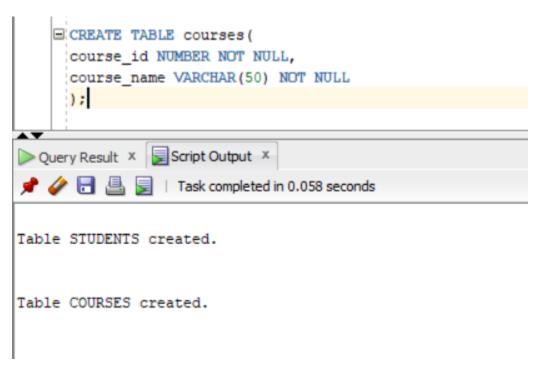
CREATE TABLE students(
 student_id NUMBER PRIMARY KEY,
 student_name VARCHAR(50) NOT NULL,
 email VARCHAR(50) NOT NULL
);

Query Result × Script Output ×

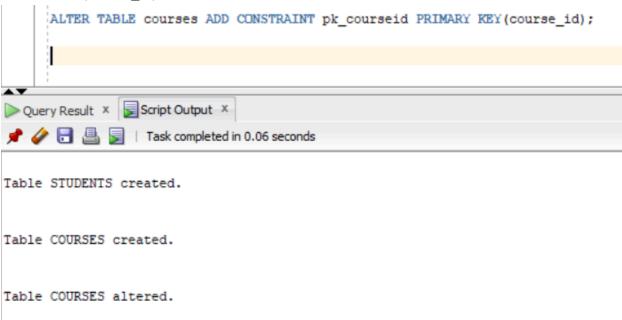
Query Result × Script Output ×

Table STUDENTS created.

2. CREATE TABLE courses(course_id NUMBER NOT NULL, course_name VARCHAR(50) NOT NULL);

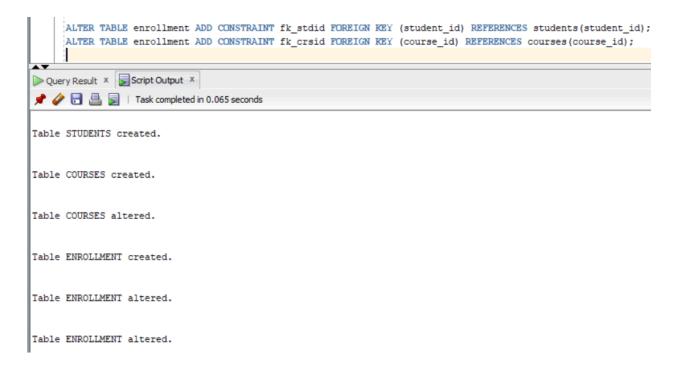


3. ALTER TABLE courses ADD CONSTRAINT pk_courseid PRIMARY KEY(course id);



4. CREATE TABLE enrollment(enrollment id NUMBER PRIMARY KEY, enrollment date DATE NOT NULL, student id NUMBER NOT NULL, course_id NUMBER NOT NULL); CREATE TABLE enrollment(enrollment_id NUMBER PRIMARY KEY, enrollment date DATE NOT NULL, student id NUMBER NOT NULL, course id NUMBER NOT NULL); **_**_ Query Result × Script Output × 📌 🥒 🔒 💂 | Task completed in 0.027 seconds Table STUDENTS created. Table COURSES created. Table COURSES altered. Table ENROLLMENT created.

- 5. ALTER TABLE enrollment ADD CONSTRAINT fk_stdid FOREIGN KEY (student_id) REFERENCES students(student_id);
- 6. ALTER TABLE enrollment ADD CONSTRAINT fk_crsid FOREIGN KEY (course_id) REFERENCES courses(course_id);



- 7. INSERT INTO students VALUES (1, 'Ali Khan', 'ali@example.com');
- 8. INSERT INTO students VALUES (2, 'Sara Ahmed', 'sara@example.com');
- 9. INSERT INTO students VALUES (3, 'Usman Tariq', 'usman@example.com');
- 10.INSERT INTO students VALUES (4, 'Hina Malik', 'hina@example.com');

```
11. INSERT ALL
      INTO courses VALUES (101, 'Database Systems')
      INTO courses VALUES (102, 'Computer Networks')
      INTO courses VALUES (103, 'Software Engineering')
      INTO courses VALUES (104, 'Operating Systems')
      SELECT * FROM dual;
Worksheet
            Query Builder
    ■ INSERT ALL
        INTO courses VALUES (101, 'Database Systems')
        INTO courses VALUES (102, 'Computer Networks')
        INTO courses VALUES (103, 'Software Engineering')
        INTO courses VALUES (104, 'Operating Systems')
      SELECT * FROM dual;
  12.INSERT ALL
      INTO enrollment VALUES (1001, DATE '2024-09-01', 1, 101)
      INTO enrollment VALUES (1002, DATE '2024-09-02', 2, 102)
      INTO enrollment VALUES (1003, DATE '2024-09-03', 3, 103)
      INTO enrollment VALUES (1004, DATE '2024-09-04', 4, 104)
      SELECT * FROM dual;
     ■ INSERT ALL
```

```
INSERT ALL
INTO enrollment VALUES (1001, DATE '2024-09-01', 1, 101)
INTO enrollment VALUES (1002, DATE '2024-09-02', 2, 102)
INTO enrollment VALUES (1003, DATE '2024-09-03', 3, 103)
INTO enrollment VALUES (1004, DATE '2024-09-04', 4, 104)
SELECT * FROM dual;

Script Output *

Task completed in 0.032 seconds

4 rows inserted.
```

13.UPDATE students SET student_name = 'Ali Raza' WHERE student_id = 1;

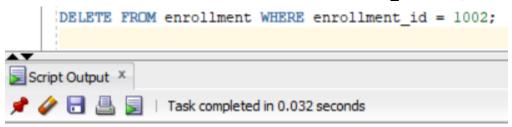
UPDATE students SET student_name = 'Ali Raza' WHERE student_id = 1;

Script Output ×

Task completed in 0.044 seconds

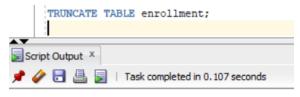
- 4 rows inserted.
- 1 row updated.

14.DELETE FROM enrollment WHERE enrollment id = 1002;



- 4 rows inserted.
- 1 row updated.
- 1 row deleted.

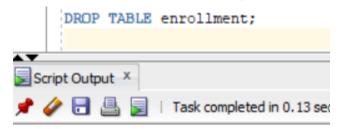
15.TRUNCATE TABLE enrollment;



- 4 rows inserted.
- 1 row updated.
- 1 row deleted.

Table ENROLLMENT truncated.

16.DROP TABLE enrollment;



- 4 rows inserted.
- 1 row updated.
- 1 row deleted.

Table ENROLLMENT truncated.

Table ENROLLMENT dropped.

- 17. ALTER TABLE students ADD phone VARCHAR2(15);
- 18. ALTER TABLE courses MODIFY course name VARCHAR2(150);
- 19. ALTER TABLE students DROP COLUMN phone;
- 20. ALTER TABLE students RENAME COLUMN student_name TO full_name;

```
ALTER TABLE students ADD phone VARCHAR2(15);

ALTER TABLE courses MODIFY course_name VARCHAR2(150);

ALTER TABLE students DROP COLUMN phone;

ALTER TABLE students RENAME COLUMN student_name TO full_name;

Script Output X

Task completed in 0.05 seconds
```

l row deleted.

Table ENROLLMENT truncated.

Table ENROLLMENT dropped.

Table STUDENTS altered.

Table COURSES altered.

Table STUDENTS altered.

Table STUDENTS altered.