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Course, Year, and Section: BSIT 3-1N

# **Activity 1: Writing SQL Syntax**

#### #1

#### Instructions:

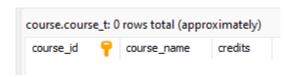
Write the appropriate SQL syntax for the following tasks. Use the examples provided in the lesson as a guide.

- 1. Create a table named course t with the following columns:
  - course\_id (INTEGER, primary key, not null)
  - course\_name (VARCHAR(50), not null)
  - credits (INTEGER, not null

## Query:

```
1 USE course;
2
3 CREATE TABLE course_t (
4 course_id INT PRIMARY KEY NOT NULL,
5 course_name VARCHAR(50) NOT NULL,
6 credits INT NOT NULL
7 );
```

# **Output:**

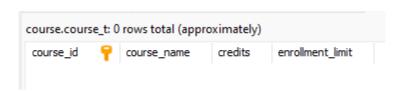


2. Add a column enrollment limit (INTEGER) to the course t table.

# Query:

```
1 USE course;
2
3 ALTER TABLE course_t
4 ADD COLUMN enrollment_limit INT;
5
```

# **Output:**

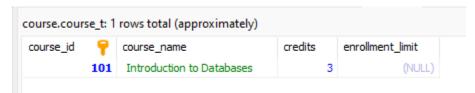


- 3. Insert the following data into the course\_t table:
  - course id: 101
  - course\_name: "Introduction to Databases"
  - credits: 3

#### Query:

```
1  USE course;
2
3  INSERT INTO course_t (course_id, course_name, credits)
4  VALUES (101, 'Introduction to Databases', 3);
5
```

#### **Output:**

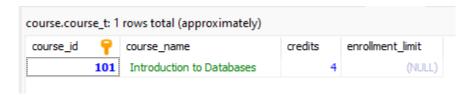


4. Update the credits column for the course with course\_id 101 to 4.

## Query:

```
1 USE course;
2
3 UPDATE course_t
4 SET credits = 4
5 WHERE course_id = 101;
6
```

## **Output:**



5. Revoke permission for a user to query the course\_t table.

#### Query:

```
Host: 127.0.0.1 Database: course Query*

REVOKE SELECT ON course.course_t FROM 'van'@'localhost';

2
3
```

# **Output:**

```
Result #1 (1r × 1c) Grants for van@localhost

GRANT USAGE ON *.* TO `van`@`localhost`
```

#### Instructions:

Write the appropriate SQL syntax for the following tasks.

- 1. Create a table student\_t with the following columns:
  - stud\_id (INTEGER, Primary Key, NOT NULL)
  - stud\_name (VARCHAR(50), NOT NULL)
  - stud sec (VARCHAR(30))
  - stud\_prog (VARCHAR(20))
  - stud\_yr (VARCHAR(5))

## Query:

```
1 USE student;
2
3 CREATE TABLE student_t (
4 stud_id INT PRIMARY KEY NOT NULL,
5 stud_name VARCHAR(50) NOT NULL,
6 stud_sec VARCHAR(30),
7 stud_prog VARCHAR(20),
8 stud_yr VARCHAR(5)
9 );
10
```

## **Output:**

2. Add a column email (VARCHAR(100)) to the student\_t table.

# Query:

```
1 USE student;
2
3 ALTER TABLE student_t
4 ADD COLUMN email VARCHAR(100);
5
```

#### **Output:**

- 3. Insert the following record into the student t table:
  - stud\_id: 101, stud\_name: "Alice", stud\_sec: "A", stud\_prog: "CS", stud\_yr: "1"

## Query:

```
1  USE student;
2
3  INSERT INTO student_t (stud_id, stud_name, stud_sec, stud_prog, stud_yr)
4  VALUES
5  (101, 'Alice', 'A', 'CS', '1');
6
```

## **Output:**

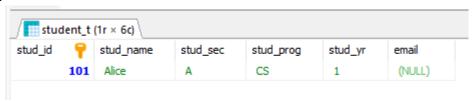


4. Write a query to retrieve all records from the student\_t table where stud\_sec is "A".

## Query:

```
1  USE student;
2
3  SELECT *
4  FROM student_t
5  WHERE stud_sec = 'A';
6
```

# **Output:**

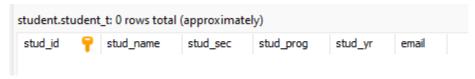


5. Delete all records from the student t table but retain the table structure.

## Query:

```
1 USE student;
2
3 DELETE FROM student_t;
```

# **Output:**

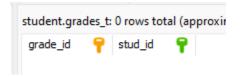


- 6. Create a table grades\_t with the following constraints:
  - grade\_id as the Primary Key
  - stud\_id as a Foreign Key referencing student\_t

# Query:

```
1 USE student;
2
3 CREATE TABLE grades_t (
4 grade_id INT PRIMARY KEY,
5 stud_id INT,
6 FOREIGN KEY (stud_id) REFERENCES student_t(stud_id)
7 );
8
```

# **Output:**

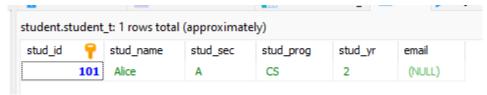


7. Update the stud\_yr of the student with stud\_id 101 to "2".

## Query:

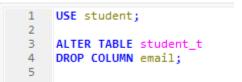
```
1  USE student;
2
3  UPDATE student_t
4  SET stud_yr = '2'
5  WHERE stud_id = 101;
6
```

# **Output:**



8. Write the syntax to remove the email column from the student\_t table.

# Query:



## **Output:**



9. Grant permission to a user to query the student\_t table.

## Query:

```
Host: 127.0.0.1 Database: course Query* GRANT DELETE ON student.student_t TO 'van'@'localhost';
```

## **Output:**

```
| Result #1 (2r × 1c) |
| Grants for van@localhost |
| GRANT USAGE ON *.* TO `van`@`localhost` |
| GRANT SELECT, DELETE ON `student`.`student_t` TO `van`@`localhost`
```

10. Revoke permission for a user to delete records from the student\_t table.

#### Query:

```
Host: 127.0.0.1 Database: course Query* REVOKE DELETE ON student_student_t FROM 'van'@'localhost';
```

# **Output:**

```
Result #1 (2r × 1c)

Grants for van@localhost

GRANT USAGE ON *.*TO `van`@`localhost`

GRANT SELECT ON `student`.`student_t` TO `van`@`localhost`
```