

### Assignments Project 2 Exam Help

https://dultolation conguage (Insert, Update, Delete)

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### **Data Manipulation Language (DML)**

# Assignment Project Exam Help

https://tutorcs.com

UPDATE

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SELECT



### Data Manipulation Language – Insert, Update, Delete

## Assing properties detection Help

```
[(attribute_name,...,attribute_name)]
VALUES (yaļue,...,value),...,(value,...,value);
```

 The ITD TE statement suisacto hadify attribute values of one or more selected tuples.

```
UPDATE table_name

SED attribute_tame cvalue, tatribute_name = value

[WHERE selection_condition]
```

The DELETE statement is used to remove tuples from a relation.

```
DELETE FROM table_name
    [WHERE selection_condition];
```



#### Insert - Examples

## Assignments Precijos to Example Ip

```
INSERT INTO STUDENT (458, LTT) (125/01/1988) O'tonogmail.com'), (458, LTT) (125/01/1988) O'tonogmail.com');

INSERT INTO STUDENT (Name, StudentID, DoB, Email)

WALUES (170m', 456, '25/01/1988', 'tom@gmail.com'),

INSERT INTO STUDENT

VALUES (456, 'Tom', '25/01/1988', 'tom@gmail.com');

INSERT INTO STUDENT

VALUES (458, 'Peter', '20/02/1991', 'peter@hotmail.com');
```



### **Insert - Primary Key Violation**

## Assignment de l'inject wi Exame y Help

	StudentID	Name	DoB	Email	
htt	DS456//1	LEC	25/01/1988 20/02/4991	tont@gmail.com	

What would capped if we try to recycle Jam's StudentID?

```
INSERT INTO STUDENT(StudentID, Name, DoB, Email)
    VALUES (456, 'Smith', '27/08/1989', 'smith@gmail.com');
```

 DBMSs will not allow two tuples with the same primary key value in STUDENT.



### **Insert - Foreign Key Violation**

### Assignmental personal and and the foreign key Help

StudentIE		Name	DoB	Email	
1 44	456 / /	Tom	25/01/1988	tom@gmail.com	
ntt	<b>C</b> 458//	Peter	10/02/1991	ee@hptmail.com	
	459	Fran	11/09/1987	frankk@gmail.com	

If we only have the above three tuples in STUDENT, can we add the following tuple into ENROL?

On the state of the state

INSERT INTO ENROL(StudentID, CourseNo, Semester, Status)
 VALUES (460, 'COMP2400', '2016 S2', 'active');

 Again, DBMSs will not allow a tuple in ENROL which has a student ID not appearing in any tuples of STUDENT due to the foreign key [StudentID] STUDENT[StudentID] on ENROL.



### **Update and Delete - Examples**

## Assilement Project Exam Help

UPDATE STUDENT

SET Name='Tom Lee', Email='tom.lee@yahoo.com'

WHERE Student ID=456;

• If vewant to blete toms from ation from the relation STUDENT, we use

DELETE FROM STUDENT WHERE StudentID=456;

We can delete all the tuples in the relation STUDENT by using

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Question: What is the difference between the above statement and the following one?

DROP Table STUDENT;

 Answer: The table Student (empty) exists after the first statement, but would disappear if applying the second one.



### **Update and Delete - Referential Actions**

# Assignment of What happening as For XI annual Late preferenced tuples (via foreign key constraints).

- SQL offers the following possibilities:
  - https://default/wilthrow.cr.erroricone tries to delete a row (or update the primary key value) referenced.
  - CASCADE will force the referencing tuples to be deleted (or updated with
  - SET WILL will force the corresponding values in the referencing tuples to be set to a null value (i.e., unknown).
  - SET DEFAULT will force the corresponding values in the referencing tuples to be set to a specified default value.



### Referential Actions – Foreign Key

```
CREATE TABLE STUDENT
      Project Exam Help
      DoB Date,
      Email VARCHAR(100));
CREATE TABLE COURSE
           Shar of the transfer S. COM
      Cname VARCHAR(50).
      Unit SMALLINT):
CREATE TABLE ENROL
          entile INT. CStutores
      Semester VARCHAR(50),
      Status VARCHAR(50),
      FOREIGN KEY(StudentID) REFERENCES STUDENT(StudentID)
       ON DELETE NO ACTION,
      FOREIGN KEY(CourseNo) REFERENCES Course(No)):
```



#### **Referential Actions - Examples**

# Assignment the following for a grant on Eight Consider the following for a grant of the grant of the following for a grant of the gran





 The deletion of a student who has enrolled at least one course will throw out an error concerning the foreign key.



### **Referential Actions - Examples**

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 Deleting a student in STUDENT will also delete all of his enrolled courses in ENROL. We would have ENROL below after deleting the student 456.

StudentID	<u>CourseNo</u>	<u>Semester</u>	Status	EnrolDate
458	COMP1130	2016 S1	active	25/02/2016