

Assignments Project 2 Exam Help

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Data Manipulation Language (DML)

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UPDATE

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SELECT



Data Manipulation Language – Insert, Update, Delete

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```
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```

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

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



Insert - Examples

Assignments Prenjecto Example Help

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```
INSERT INTO STUDENT(Name, StudentI
```

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```
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 he Peltington twi Exame Help Student ID:

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- Whatwoold tapper if we to be explicated assist property in the control of the c
- DBMSs will not allow two tuples with the same primary key value in STUDENT.



Insert - Foreign Key Violation

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- If we only have the above three tuples in S

 following fluid in Welland Chat edu_assist_pr

 INSERT INTO ENROL (StudentID, Cours

 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

Assue want to change Tom Pmail and name stored in the relation TTDEN purpose Student Project Exam Help

- If https://eduassistpro.githsub.

 DELETE FROM STUDENT WHERE StudentID=456;
- We can delete all the tuples in the relation S

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 particular with tuples in the relation S
- Question: What is the difference between the a 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 in the period of th

- https://eduassistpro.github.
 - CASCADE will force the referencing tuples t new printer key value. hat edu_assist_printer will force the corresponding value. Let not 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

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CREATE TABLE ENROL

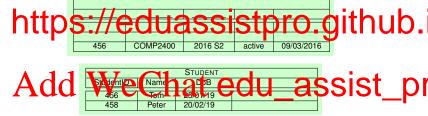
A Charles VARCHAR Co) hat edu_assist_pr

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

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

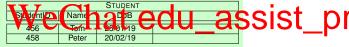


Referential Actions - Examples

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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