

### Assignment Project Exam Help

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#### What is SQL?

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SQL was initially developed at IBM (SEQUEL  $\rightarrow$  SQL), as one of the first co

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• 1992 - SQL was strengthened and much ex

### Application of the property of

- 2003 SQL was further expanded, e.g., XML support (→ SQL:2003).
- 2011 SQL was further expanded, e.g., improved support for temporal databases (→ SQL:2011).



#### What is SQL?

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SQL provides an interface to relational database systems, including:

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Data Manipulation Language (DML);

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Transaction Control Language (TCL).



#### **Relational Data Model and SQL**

As Solutional data podel that is based on sets. SQL is based in 1 podel that sQL is based in 1 podel that is based in 1 podel that is based in 1 podel that is based in 1 podel to 1 podel

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#### **Data Definition Language**

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#### **Data Definition Language – Create Table**

# Assignment Project Exam Help specifying its name, its attributes and, optionally, its constraints.

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attribute\_name data\_type [attribute constraints],
[table constraints]);

• For each attribute in a relation, we specify its name, it assistable property a constraint specific to the attribute (i.e., attribute c

attribute\_name data\_type [attribute\_constraint]



#### **Create Table – Example**

# Assignment Project Examplelp Name VARCHAR (50), DOB Date,

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Cname VARCHAR(50),

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StudentID

CourseNo

Semester

Status

(StudentID INT, CourseNo VARCHAR(20)

Semester VARCHAR(50),

Status VARCHAR(50)),



#### **Attribute Data Types**

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mbers

- scale for the number of digits following th
- String types We Character India to file Gu\_assist ber proof characters.
  - VARCHAR(n) allows character strings of varying length, where n is the maximum number of characters.
  - BIT(n) allows bit strings of fixed length, where n is the number of bits.
  - BIT VARYING(n) allows bit strings of varying length, where n is the maximum number of bits.



#### **Attribute Data Types**

#### Assignation types to Project Exam Help

- TIME provides time values (hour, minute, second).
- https://eduassistpro.glithub.
- Boolean type: has the values of TRUE or
- The Archen ent in actio ect u\_assist\_properties a specific data type.

```
CREATE DOMAIN domain_name AS data_type
    [default expression][constraint,...,constraint];
```

**Example:** CREATE DOMAIN ssn\_type AS CHAR(9);



#### **Attribute Data Types – Example**

# Assignment Project Exam Help Name VARCHAR (50), DOB Date,

#### cme https://eduassistpro.github.

Cname VARCHAR(50),

# Add We Chatedu assist process and the student of th

(StudentID INT,

CourseNo VARCHAR(20),

Semester VARCHAR(50),

Status VARCHAR(50));



#### Attribute Constraints

### Assignment Projects Exam Help

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UNIQUE: ensure that uniqueness of the valu

of attribute in a table.

PRANT OF UNIQUE OF ATTRIBUTE OF

FOREIGN KEY: enforce referential integrity between two tables.

INDEX: provides accelerated access to the rows of table.



#### Attribute Constraints – Not Null, Default and Check

# Assignment Project Exam Help Chame VARCHAR(20) NOT NULL,

### mhttps://eduassistpro.github.

CourseNo VARCHAR(20) NOT NULL
Semester VARCHAR(50) NOT NULL

Astron VARCHAR(50), hat edu\_assist\_pr

- If we don't want to have missing and unknown data, we can specify NOT NULL for attributes to forbid NULL values.
- Unit of any new tuple in Course is set to 6 if no explicit value is provided.
- CHECK() for StudentID excludes the student IDs such as 0 and -37.



#### **Attribute Constraints – Unique and Primary Key**

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### THE https://eduassistpro.github.

CourseNo VARCHAR(20) NOT NULL, Semester VARCHAR(50) NOT NULL

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- If a primary key contains only one attribute, PRIMARY KEY can be defined as an attribute constraint (e.g., in COURSE); otherwise it is defined as a table constraint (e.g., in ENROL).
- PRIMARY KEY specifies a key while UNIQUE specifies additional keys.



#### **Attribute Constraints – Foreign Key**

Assigificate Table Student Representation of the Control of the Co

### thttps://eduassistpro.github.

Cname VARCHAR(50),
Unit SMALLINT);

exist in STUDENT.

CREATE AND CREATE STRAIGHT STR

StudentID INT,

CourseNo VARCHAR(20),

Semester VARCHAR(50),

Status VARCHAR(50));



#### Attribute Constraints – Foreign Key

Assignment of the property of

### https://eduassistpro.github.

Cname VARCHAR(50), Unit SMALLINT):

### CREATE Add NROWe Chat edu\_assist\_pr

StudentID INT,

CourseNo VARCHAR(20),

Semester VARCHAR(50),

Status VARCHAR(50),

FOREIGN KEY(StudentID) REFERENCES STUDENT(StudentID),

FOREIGN KEY(CourseNo) REFERENCES Course(No));



#### Attribute Constraints – Foreign Key

Project Exam Help Semester VARCHAR(50),

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CREATE TABLE STUDENT

Student ID INT PRIMARY KEY,
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Email VARCHAR(100));

reference STUDENT and COURSE.

CREATE TABLE COURSE

(No VARCHAR(20) PRIMARY KEY, Cname VARCHAR(50), Unit SMALLINT);



#### Attribute Constraints - Index

# Assignment Project Fxam Help key.

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Address VARCHAR(80),

Addring Custom (Phone >0). edu\_assist\_pr

CREATE INDEX index1 ON CUSTOMER (Name, DOB);

CREATE UNIQUE INDEX index2 ON CUSTOMER (Phone);



#### **Data Definition Language – Alter and Drop Table**

### Assignment Project Exam Help The TABLE statement is used to modify an existing relation schema,

The ALTER TABLE statement is used to modify an existing relation schema, including:

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• adding or dropping table constraints.

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 The DROP TABLE statement is used to remove a from a database schema.



#### **Data Definition Language – Alter and Drop Table**

### Assignment Project Exam Help

ALTER TABLE CUSTOMER ALTER COLUMN Address SET NOT NULL;

- \* https://eduassistpro.github.
- Add a check() constraint:

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Add a Foreign Key constraint:

ALTER TABLE ENROL
ADD FOREIGN KEY(StudentID) REFERENCES Student(StudentID);



#### **Data Definition Language – Alter and Drop Table**

### Assignment Project Exam Help Add an attribute EMAIL into the table CUSTOMER:

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- Drop the table ENROL: DEATH COMPANIES OF THE PROPERTY OF THE PROPERT
- Drop the table CUSTOMER (if exists):

DROP TABLE IF EXISTS CUSTOMER: