

程序代写代做 CS编程辅导



SQL and Data Definition Language Assignment Project Exam Help

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程序代写代做 CS编程辅导 What is SQL?

- SQL stands for Struc y Language
- SQL was initially dev BM (SEQUEL → SQL), as one of the first commercial languages of the felational data model.
 - 1986 SQL was standardised by ANSI and ISO (→ SQL-86).
 - 1989 SQL was revised (SQL-89). Assignment Project Exam Help
 - 1992 SQL was strengthened and much expanded (→ SQL-92).
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 - 1999 SQL was expanded and divided into a core specification plus optional special sed: pad 9289 476 SQL:1999).
 - 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).



程序代写代做 CS编程辅导 What is SQL?



SQL provides an intelegram ational database systems, including:

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Data Definition Language (DDL);

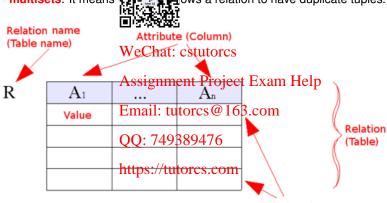
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- Data Manipulation Language (DML);
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- Data Control Language (DCL): 476
- Transaction Controls an automate (T.Com



程序代写代做 CS编程辅导 Relational Data Model and SQL

Unlike the relational that is based on sets, SQL is based on multisets. It means we say you want to have duplicate tuples.



Tuple (Row)



程序代写代做 CS编程辅导 Data Definition Language



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程序代写代做 CS编程辅导 Data Definition Language – Create Table

• The CREATE TABLE SINGUISHED TABLE SINGUISHED THE TABLE SINGUISH SINGUI

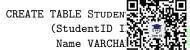
```
CREATE TABLE table name (attribute constraints], (attribute_name data_type [attribute constraints], ..., Assignment Project Exam Help attribute constraints], [table constraints]); Email: tutorcs@163.com
```

• For each attribute in **Qeation 9689** decity its name, its type and, *optionally*, a constraint specific to the attribute (i.e., attribute constraint).

```
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attribute_name_data_type [attribute_constraint]
```



程序代写代做 CS编程辅导 Create Table – Example



StudentID DoB Name Email

DoB Date, Email VARCHAR(100));

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CREATE TABLE COURSE

(No VARCHAR (20) și gnment Project Lami Help

Cname VARCHAR(50),

Unit SMALLI Finail: tutores@163.com

CREATE TABLE ENROL QQ: 749389476

(StudentID INT,

CourseNo Semester Status CourseNo VARCHAR (2001)

Semester VARCHAR(50).

Status VARCHAR(50)),



程序代写代做 CS编程辅导 Attribute Data Types

Numeric types:

- INT and SMALLIA Edwards of integer numbers of various sizes.
- FLOAT or REAL, and DUBLE PRECISION provide floating point numbers of various precision at
- NUMERIC(i,j) or DECIMAL(i,j) provide fixed point numbers with parameters precision i and scale j:
 - precision for the total number of digits. Exam Help
 - scale for the number of digits following the decimal point.
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String types:

- CHAR(n) allows character strings of fixed length, where n is the number
 of 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.



程序代写代做 CS编程辅导 Attribute Data Types

- Date and time types
 - DATE provides (1.1. (year, month, day).
 - TIME provides telephone (hour, minute, second).
 - TIMESTAMP includes the DATE and TIME fields, plus a minimum of six positions for seddings and archytionas with time zone qualifier.
 - INTERVAL specifies a relative value that can be used to increment or decrement a value site adaption stamp. Help
- Boolean type: has the values of TRUE or FADSE om
- The CREATE DOMAIN statement is used to create a domain that is essentially a specific data type. QQ: 749389476

```
CREATE DOMAIN domain/name AS data type [default expression][constraint,...,constraint];
```

Example: CREATE DOMAIN ssn_type AS CHAR(9);



程序代写代做 CS编程辅导 Attribute Data Types – Example



CREATE TABLE Course

(No VARCHAR (2) \$ signment Profesame xami Help

Cname VARCHAR(50),

Unit SMALLI Email: tutores@163.com

CREATE TABLE ENROL QQ: 7493 89406ntlD | CourseNo | Semester | Status (StudentID INT, CourseNo Varthur (260) Com | Semester VARCHAR(50), Status VARCHAR(50)):



程序代写代做 CS编程辅导 Attribute Constraints

 The following constract specified in SQL.

NOT NULL: specify that NULL is not allowed for an attribute.

DEFAULT: set a viete company attribute.

CHECK: limit the values taken from the domain of an attribute.

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UNIQUE: ensure that uniqueness of the values for an attribute or a set

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PRIMARY KEY: uniquely identify each tuple in a table.

FOREIGN KEY: enforce referential integrity between two tables.

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程序代写代做 CS编程辅导 Attribute Constraints – Not Null, Default and Check

CREATE TABLE COURSE

(No VARCHAR() Y KEY,
Chame VARCH NOT NULL,
Unit SMALLINT NOT NULL Default 6);

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CREATE TABLE ENROL

(StudentID INTSNOOMNEENCERCHECHTING) P
CourseNo VARCHAR(20) NOT NULL,
Semester VARCHAR(50),
Status VARCHAR(50),
OO: 749389476

- 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.



程序代写代做 CS编程辅导 Attribute Constraints – Unique and Primary Key

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CREATE TABLE ENROL

(StudentID INTSUPENHIERIC ESTEMENT TO POPULATION OF NULL, Semester VARCHAR(50), PRIMARY KEY (StudentIB & GaraseNo, Semester), ...);

- If a primary key contain point with path is the 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.



程序代写代做 CS编程辅导 Attribute Constraints – Foreign Key

CREATE TABLE STUDEN

StudentID

KEY,

Name VARCHA DoB Date,

Email VARCHAR(100

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CREATE TABLE COURSE

(No VARCHAR (20): PRIMARY KEY appearing in ENROL must Cname VARCHAR(50).

Unit SMALLINE miail: tutorcs@163.Every CourseNo

CREATE TABLE ENROL OO: 749389476 StudentID

VARGHAR/(20) orcs.com CourseNo

Semester VARCHAR(50),

Status VARCHAR(50));

Every StudentID

exist in STUDENT.

appearing in ENROL must

exist in COURSE.



程序代写代做 CS编程辅导 Attribute Constraints – Foreign Key

CREATE TABLE STUDEN TO THE CONTROL OF T

Email VARCHAR(100));

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CREATE TABLE COURSE StudentID in ENROL

(No VARCHAR (20); PRIMARY Project Peterangelp
Chame VARCHAR (50), StudentID in Student.

Unit SMALLINE Prizail: tutorcs@163.comseNo in ENROL

CREATE TABLE ENROL QQ: 749389476 references No in COURSE.

CourseNo VARCHAR/2010rcs.com
Semester VARCHAR(50),

Status VARCHAR(50),

FOREIGN KEY(StudentID) REFERENCES STUDENT(StudentID),

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



程序代写代做 CS编程辅导 Attribute Constraints – Foreign Key

CREATE TABLE ENROL

StudentID

CourseNo

Semester VA

Status VARCHAR(50),

FOREIGN KEY Wedent ED STUFFFE CES STUDENT (StudentID), FOREIGN KEY(CourseNo) REFERENCES COURSE(No));

Assignment Project Exameldefine Enrol before STUDENT and

CREATE TABLE STUDENT

(StudentID PATA PLANTAGE 163.COURSE? Name VARCHAR(50).

DoB Date, OO: 749389476 Email VARCHAR(100)):

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CREATE TABLE COURSE

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

Answer: No. ENROL has the foreign keys that reference STUDENT and

COURSE.



程序代写代做 CS编程辅导 Attribute Constraints – Index

Indexes are used for the last based on columns other than the primary key.

```
CREATE TABLE CUSTOMER
(Custome PIB THAT NOT NULL,
DOB DATE SHIPMENT Project Exam Help
Address VARCHAR(80),
Phone THAT CREATE (Solution of the property of the
```



程序代写代做 CS编程辅导 Data Definition Language – Alter and Drop Table

- The ALTER TABLE state state
 - changing the name of a table:
 - adding or dropping an attribute;
 - changing the definition on an attribute t Exam Help
 - adding or dropping table constraints. Email: tutorcs@163.com

The DROP TABLE statement is used to remove an existing relation schema from a database schemas://tutorcs.com



程序代写代做 CS编程辅导 Data Definition Language – Alter and Drop Table

• Add a NOT NULL con Address SET NOT NULL;

Add a UNIQUE constraint Chat: cstutores

ALTER TABLE CUSTOMER ADD UNIQUE (Phone);
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Add a check() constraint:

ALTER TABLE CUSTOMER ail: tutorcs@163.com
ADD CONSTRAINT positive id CHECK (CustomerID > 0);

Add a Foreign Key constraint:

ALTER TABLE ENROL https://tutorcs.com
ADD FOREIGN KEY(StudentID) REFERENCES Student(StudentID);



程序代写代做 CS编程辅导 Data Definition Language – Alter and Drop Table

● Add an attribute EMA able CUSTOMER:

ALTER TABLE CUSTOMER ADD Email VARCHAR(100);

Drop the attribute EMAIL in the table CUSTOMER:

ALTER TABLE CUSTOMESI PROPROCULTING MALE EXAM Help

Drop the table ENROF mail: tutorcs@163.com
 DROP TABLE ENROL;

Drop the table Customer (if exists):

DROP TABLE IF EXISTRES: OF THERES. COM