

Techie QUIZ for C and Python

ABSTRACT

This project is about “Techie Quiz”, which can be accessed by students by providing their login id and password. New users can sign up giving their name, mail Id, student Id and college name. Each student has an option of attempting either a python quiz or C quiz or even both. Students can also attempt the quiz more than once. Score will be evaluated and displayed. Quiz consists of multiple choice and programming questions. This helps students to improve their programming skills and spontaneity. Since smart phones are used by almost all the students, it is even easy for them to take quiz even without pc.

REQUIREMENT ANALYSIS

List of tables:

- Students
- Login
- Quiz
- Score
- Students_quiz
- Students_score
- Students_login

List of attributes with their domain types:

Students:

STUDENTID : VARCHAR2(10)
SNAME : VARCHAR2(10)
MAILID : VARCHAR2(20)
COLLEGE : VARCHAR2(10)

Login:

LOGINID: VARCHAR2(10)
USER_PASSWORD: VARCHAR2(15)
TYPE : VARCHAR2(5)

Quiz:

QUIZID :VARCHAR2(20)
QUIZLANG : VARCHAR2(10)
QNAME :VARCHAR2(10)

Score:

SCRID : VARCHAR2(10)
MARKS :NUMBER(2)

Students_quiz:

STUDENTID : VARCHAR2(10)
QUIZID :VARCHAR2(10)
NOOFATTEMPTS : NUMBER(2)

Students_score:

STUDENTID :VARCHAR2(10)
SCRID:VARCHAR2(10)

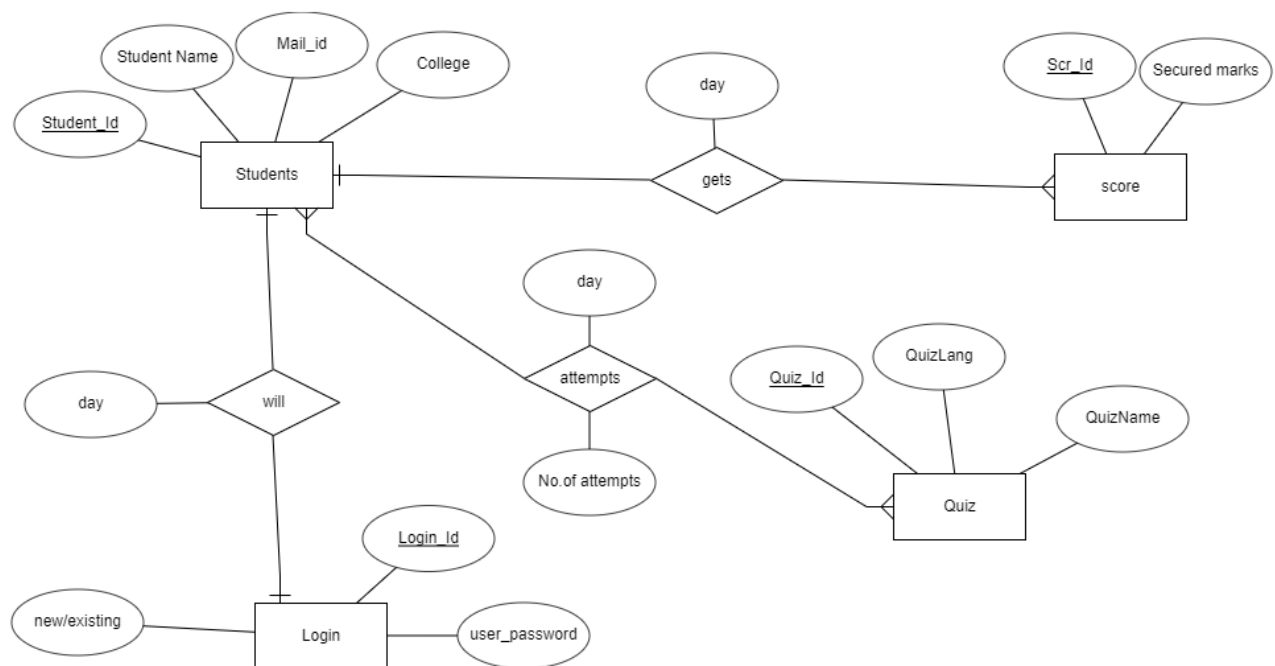
Students_login:

STUDENTID:VARCHAR2(10)
LOGINID:VARCHAR2(10)

DBMS Assignment

Title: Techie Quiz for C and Python

ER Diagram



Mapping Cardinalities and Participation Constraints:

A student can write more than one quiz, at the same time one quiz can be written by many students. Therefore the relation “attempts” between students and quiz is many to many.

Each student will have only one login. And a particular login is associated with only one student. Therefore the relation “will” is one to one.

Different students can get same score .Therefore the relation “gets” is many to one.

DDL Commands

```
create table students(studentid varchar2(10) primary key,sname
varchar2(10),mailid varchar2(20),college varchar2(10));
```

Table created.

```
SQL> desc students;
```

Name	Null?	Type
STUDENTID	NOT NULL	VARCHAR2(10)
SNAME		VARCHAR2(10)

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MAILID

VARCHAR2(20)

COLLEGE

VARCHAR2(10)

```
create table login(loginid varchar2(10) primary key,user_password
varchar2(15),type varchar2(5));
```

Table created.

SQL> desc login;

Name	Null?	Type
LOGINID	NOT NULL	VARCHAR2(10)
USER_PASSWORD		VARCHAR2(15)
TYPE		VARCHAR2(5)

```
create table quiz(quizid varchar2(20) primary key,quiz_lang
varchar2(10),qname varchar2(10));
```

Table created.

SQL> desc quiz;

Name	Null?	Type
QUIZID	NOT NULL	VARCHAR2(20)
QUIZLANG		VARCHAR2(10)
QNAME		VARCHAR2(10)

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```
create table score(scrId varchar2(10) primary key,marks number(2));
```

Table created.

```
SQL> desc score;
```

Name	Null?	Type
SCRID	NOT NULL	VARCHAR2(10)
MARKS		NUMBER(2)

```
create table attempts(studentid varchar2(10),quizid
varchar2(10),noofattempts number(2), foreign key(studentid)
references students,foreign key(quizid) references quiz);
```

Table created.

```
SQL> desc attempts;
```

Name	Null?	Type
STUDENTID		VARCHAR2(10)
QUIZID		VARCHAR2(10)
NOOFATTEMPTS		NUMBER(2)

```
create table gets(studentid varchar2(10),scrId varchar2(10), foreign
key(studentid) references students,foreign key(scrId) references
score);
```

Table created.

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SQL> desc gets;

Name	Null?	Type
STUDENTID		VARCHAR2(10)
SCRID		VARCHAR2(10)

create table will(studentid varchar2(10),loginid varchar2(10), foreign
key(studentid) references students,foreign key(loginid) references
login);

Table created.

SQL> desc will;

Name	Null?	Type
STUDENTID		VARCHAR2(10)
LOGINID		VARCHAR2(10)

SQL> alter table students_login add(day date);

Table altered.

SQL> desc students_login;

Name	Null?	Type

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STUDENTID	VARCHAR2(10)
LOGINID	VARCHAR2(10)
DAY	DATE

```
SQL> alter table students_quiz add(day date);
```

Table altered.

```
SQL> alter table students_score add(day date);
```

Table altered.

DML commands:

```
insert into students  
values('&studentid','&sname','&mailid','&college') ;  
Enter value for studentid: 737-121
```

```
Enter value for sname: Jay  
Enter value for mailid: Jay@gmail.com  
Enter value for college: vasavi  
old 1: insert into students  
values('&studentid','&sname','&mailid','&college')  
new 1: insert into students values('737-  
121','Jay','Jay@gmail.com','vasavi')
```

1 row created.

```
SQL> /  
Enter value for studentid: 737-122
```

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Enter value for sname: hari

Enter value for mailid: hari@gmail.com

Enter value for college: vasavi

old 1: insert into students

values('&studentid','&sname','&mailid','&college')

new 1: insert into students values('737-122','hari','hari@gmail.com','vasavi')

1 row created.

SQL> /

Enter value for studentid: 737-123

Enter value for sname: sharath

Enter value for mailid: sharath@gmail.com

Enter value for college: vasavi

old 1: insert into students

values('&studentid','&sname','&mailid','&college')

new 1: insert into students values('737-123','sharath','sharath@gmail.com','vasavi')

1 row created.

SQL> /

Enter value for studentid: 737-125

Enter value for sname: arjun

Enter value for mailid: arjun@gmail.com

Enter value for college: vasavi

old 1: insert into students

values('&studentid','&sname','&mailid','&college')

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```
new 1: insert into students values('737-125','arjun','arjun@gmail.com','vasavi')
```

1 row created.

```
SQL> /
```

```
Enter value for studentid: 737-124
```

```
Enter value for sname: aadhi
```

```
Enter value for mailid: aadhi@gmail.com
```

```
Enter value for college: vasavi
```

```
old 1: insert into students
values('&studentid','&sname','&mailid','&college')
new 1: insert into students values('737-124','aadhi','aadhi@gmail.com','vasavi')
```

1 row created.

```
SQL> select * from students;
```

STUDENTID	SNAME	MAILID	COLLEGE
-----------	-------	--------	---------

737-121	Jay	Jay@gmail.com	vasavi
737-122	hari	hari@gmail.com	vasavi
737-123	sharath	sharath@gmail.com	vasavi
737-125	arjun	arjun@gmail.com	vasavi
737-124	aadhi	aadhi@gmail.com	vasavi

```
SQL> insert into login values('&loginid','&user_password','&type');
```

```
Enter value for loginid: dbms@121
```

```
Enter value for user_password: dbms121
```

```
Enter value for type: new
```

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```
old 1: insert into login values('&loginid','&user_password','&type')
```

```
new 1: insert into login values('dbms@121','dbms121','new')
```

1 row created.

```
SQL> /
```

```
Enter value for loginid: dbms@122
```

```
Enter value for user_password: dbms122
```

```
Enter value for type: old
```

```
old 1: insert into login values('&loginid','&user_password','&type')
```

```
new 1: insert into login values('dbms@122','dbms122','old')
```

1 row created.

```
SQL> /
```

```
Enter value for loginid: dbms@123
```

```
Enter value for user_password: dbms123
```

```
Enter value for type: new
```

```
old 1: insert into login values('&loginid','&user_password','&type')
```

```
new 1: insert into login values('dbms@123','dbms123','new')
```

1 row created.

```
SQL> /
```

```
Enter value for loginid: dbms@124
```

```
Enter value for user_password: dbms124
```

```
Enter value for type: new
```

```
old 1: insert into login values('&loginid','&user_password','&type')
```

```
new 1: insert into login values('dbms@124','dbms124','new')
```

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1 row created.

SQL> /

Enter value for loginid: dbms@125

Enter value for user_password: dbms125

Enter value for type: old

old 1: insert into login values('&loginid','&user_password','&type')

new 1: insert into login values('dbms@125','dbms125','old')

1 row created.

SQL> select * from login;

LOGINID	USER_PASSWORD	TYPE
dbms@121	dbms121	new
dbms@122	dbms122	old
dbms@123	dbms123	new
dbms@124	dbms124	new
dbms@125	dbms125	old

SQL> insert into score values('&scrid','&marks');

Enter value for scrid: scr1

Enter value for marks: 8

old 1: insert into score values('&scrid','&marks')

new 1: insert into score values('scr1',8)

1 row created.

SQL> /

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Enter value for scrid: scr2

Enter value for marks: 10

old 1: insert into score values('&scrid',&marks)

new 1: insert into score values('scr2',10)

1 row created.

SQL> /

Enter value for scrid: scr3

Enter value for marks: 9

old 1: insert into score values('&scrid',&marks)

new 1: insert into score values('scr3',9)

1 row created.

SQL> /

Enter value for scrid: scr4

Enter value for marks: 8

old 1: insert into score values('&scrid',&marks)

new 1: insert into score values('scr4',8)

1 row created.

SQL> /

Enter value for scrid: scr5

Enter value for marks: 8

old 1: insert into score values('&scrid',&marks)

new 1: insert into score values('scr5',8)

1 row created.

DBMS Assignment

Title: Techie Quiz for C and Python

SQL> select * from score;

SCRID	MARKS
-------	-------

scr1	8
------	---

scr2	10
------	----

scr3	9
------	---

scr4	8
------	---

scr5	8
------	---

SQL> insert into quiz values('&quizid','&qname','&quizlang');

Enter value for quizid: it01

Enter value for qname: quiz1

Enter value for quizlang: python

old 1: insert into quiz values('&quizid','&qname','&quizlang')

new 1: insert into quiz values('it01','quiz1','python')

1 row created.

SQL> /

Enter value for quizid: it02

Enter value for qname: quiz2

Enter value for quizlang: c

old 1: insert into quiz values('&quizid','&qname','&quizlang')

new 1: insert into quiz values('it02','quiz2','c')

1 row created.

SQL> /

Enter value for quizid: cse01

Enter value for qname: quiz3

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Enter value for quizlang: python

old 1: insert into quiz values('&quizid','&qname','&quizlang')

new 1: insert into quiz values('cse01','quiz3','python')

1 row created.

SQL> /

Enter value for quizid: it03

Enter value for qname: quiz4

Enter value for quizlang: c

old 1: insert into quiz values('&quizid','&qname','&quizlang')

new 1: insert into quiz values('it03','quiz4','c')

1 row created.

SQL> /

Enter value for quizid: it04

Enter value for qname: quiz5

Enter value for quizlang: python

old 1: insert into quiz values('&quizid','&qname','&quizlang')

new 1: insert into quiz values('it04','quiz5','python')

1 row created.

SQL> select * from quiz;

QUIZID	QUIZLANG	QNAME
--------	----------	-------

it01	quiz1	python
------	-------	--------

it02	quiz2	c
------	-------	---

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cse01	quiz3	python
it03	quiz4	c
it04	quiz5	python

- SQL> insert into will values('&studentId','&loginid');

Enter value for studentid: 737-121

Enter value for loginid: dbms@121

old 1: insert into will values('&studentId','&loginid')

new 1: insert into will values('737-121','dbms@121')

1 row created.

SQL> /

Enter value for studentid: 737-122

Enter value for loginid: dbms@122

old 1: insert into will values('&studentId','&loginid')

new 1: insert into will values('737-122','dbms@122')

1 row created.

SQL> /

Enter value for studentid: 737-123

Enter value for loginid: dbms@123

old 1: insert into will values('&studentId','&loginid')

new 1: insert into will values('737-123','dbms@123')

1 row created.

SQL> /

Enter value for studentid: 737-124

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Enter value for loginid: dbms@124

old 1: insert into will values('&studentId','&loginid')

new 1: insert into will values('737-124','dbms@124')

1 row created.

SQL> /

Enter value for studentid: 737-125

Enter value for loginid: dbms@125

old 1: insert into will values('&studentId','&loginid')

new 1: insert into will values('737-125','dbms@125')

1 row created.

SQL> select * from will;

STUDENTID LOGINID

737-121 dbms@121

737-122 dbms@122

737-123 dbms@123

737-124 dbms@124

737-125 [dbms@125](#)

SQL> insert into attempts

values('&studentid','&quizid','&noofattempts');

Enter value for studentid: 737-121

Enter value for quizid: it01

Enter value for noofattempts: 2

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```
old 1: insert into attempts
values('&studentid','&quizid','&noofattempts')
new 1: insert into attempts values('737-121','it01',2)
```

1 row created.

SQL> /

```
Enter value for studentid: 737-122
Enter value for quizid: it02
Enter value for noofattempts: 1
old 1: insert into attempts
values('&studentid','&quizid','&noofattempts')
new 1: insert into attempts values('737-122','it02',1)
```

1 row created.

SQL> /

```
Enter value for studentid: 737-123
Enter value for quizid: it02

Enter value for noofattempts: 2
old 1: insert into attempts
values('&studentid','&quizid','&noofattempts')
new 1: insert into attempts values('737-123','it02',2)
```

1 row created.

SQL> /

```
Enter value for studentid: 737-124
Enter value for quizid: cse01
Enter value for noofattempts: 3
```

DBMS Assignment

Title: Techie Quiz for C and Python

```
old 1: insert into attempts
values('&studentid','&quizid','&noofattempts')
new 1: insert into attempts values('737-124','cse01',3)
```

1 row created.

SQL> /

Enter value for studentid: 737-125

Enter value for quizid: it04

Enter value for noofattempts: 1

```
old 1: insert into attempts
values('&studentid','&quizid','&noofattempts')
new 1: insert into attempts values('737-125','it04',1)
```

1 row created.

SQL> select * from attempts;

STUDENTID	QUIZID	NOOFATTEMPTS
737-121	it01	2
737-122	it02	1
737-123	it02	2
737-124	cse01	3
737-125	it04	1

SQL> insert into gets values('&studentid','&scrid');

Enter value for studentid: 737-121

Enter value for scrid: scr1

```
old 1: insert into gets values('&studentid','&scrid')
new 1: insert into gets values('737-121','scr1')
```

1 row created.

SQL> /

Enter value for studentid: 737-122

Enter value for scr3: scr3

old 1: insert into gets values('&studentid','&scr3')

new 1: insert into gets values('737-122','scr3')

1 row created.

SQL> /

Enter value for studentid: 737-123

Enter value for scr2: scr2

old 1: insert into gets values('&studentid','&scr2')

new 1: insert into gets values('737-123','scr2')

1 row created.

SQL> /

Enter value for studentid: 737-124

Enter value for scr4: scr4

old 1: insert into gets values('&studentid','&scr4')

new 1: insert into gets values('737-124','scr4')

1 row created.

SQL> /

Enter value for studentid: 737-125

Enter value for scr5: scr5

DBMS Assignment

Title: Techie Quiz for C and Python

old 1: insert into gets values('&studentid','&scrid')

new 1: insert into gets values('737-125','scr5')

1 row created.

SQL> select * from gets;

STUDENTID SCRID

737-121	scr1
737-122	scr3
737-123	scr2
737-124	scr4
737-125	scr5

SQL> update students_login set day='13-FEB-2020';

5 rows updated.

SQL> update students_quiz set day='13-FEB-2020';

5 rows updated.

SQL> update students_score set day='13-FEB-2020';

5 rows updated.

SQL> select * from students_login;

DBMS Assignment

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STUDENTID LOGINID DAY

```
-----
```

737-121	dbms@121	13-FEB-20
737-122	dbms@122	13-FEB-20
737-123	dbms@123	13-FEB-20
737-124	dbms@124	13-FEB-20
737-125	dbms@125	13-FEB-20

SQL> select * from students_quiz;

STUDENTID QUIZID NOOFATTEMPTS DAY

```
-----
```

737-121	it01	2	13-FEB-20
737-122	it02	1	13-FEB-20
737-123	it02	2	13-FEB-20
737-124	cse01	3	13-FEB-20
737-125	it04	1	13-FEB-20

SQL> select * from students_score;

STUDENTID SCRID DAY

```
-----
```

737-121	scr1	13-FEB-20
737-122	scr3	13-FEB-20
737-123	scr2	13-FEB-20
737-124	scr4	13-FEB-20
737-125	scr5	13-FEB-20

SQL> rename will to students_login;

DBMS Assignment

Title: Techie Quiz for C and Python

Table renamed.

SQL> rename gets to students_score;

Table renamed.

SQL> rename attempts to students_quiz;

Table renamed.