

Question3

Q1(a)

```
INSERT INTO Banks(BankName, City, Noaccounts, Security)
VALUES('Loanshark Bank', 'Evanston', 100, 'very good' );
```

```
Project1-YZC=> INSERT INTO Banks(BankName, City, Noaccounts, Security)
Project1-YZC-> VALUES('Loanshark Bank', 'Evanston', 100, 'very good' );
ERROR: duplicate key value violates unique constraint "bankpk"
DETAIL: Key (bankname, city)=(Loanshark Bank, Evanston) already exists.
```

Q1(b)

```
INSERT INTO Banks(BankName, City, Noaccounts, Security)
VALUES('EasyLoan Bank', 'Evanston', -5, 'excellent' );
```

```
Project1-YZC=> INSERT INTO Banks(BankName, City, Noaccounts, Security)
Project1-YZC-> VALUES('EasyLoan Bank', 'Evanston', -5, 'excellent' );
ERROR: new row for relation "banks" violates check constraint "limitation"
DETAIL: Failing row contains (EasyLoan Bank, Evanston, -5, excellent).
```

Q1(c)

```
INSERT INTO Banks(BankName, City, Noaccounts, Security)
VALUES('EasyLoan Bank', 'Evanston', 100, 'poor' );
```

```
Project1-YZC=> INSERT INTO Banks(BankName, City, Noaccounts, Security)
Project1-YZC-> VALUES('EasyLoan Bank', 'Evanston', 100, 'poor' );
ERROR: new row for relation "banks" violates check constraint "safetylevel"
DETAIL: Failing row contains (EasyLoan Bank, Evanston, 100, poor).
```

Q2

```
INSERT INTO Skills(SkillId, Description)
VALUES(20, 'Guarding' );
```

```
Project1-YZC=> INSERT INTO Skills(SkillId, Description)
Project1-YZC-> VALUES(20, 'Guarding' );
ERROR: duplicate key value violates unique constraint "skills_description_key"
DETAIL: Key (description)=(Guarding) already exists.
```

Q3

```
INSERT INTO Robberies(BankName, City, Date, Amount)
VALUES('NXP Bank', 'Chicago', '2019-01-08', 1000 );
```

```
Project1-YZC=> INSERT INTO Robberies(BankName, City, Date, Amount)
Project1-YZC-> VALUES('NXP Bank', 'Chicago', '2019-01-08', 1000 );
ERROR: duplicate key value violates unique constraint "robberiespk"
DETAIL: Key (bankname, city, date)=(NXP Bank, Chicago, 2019-01-08) already exists.
```

Q4

```
DELETE FROM Banks
WHERE BankName = 'PickPocket Bank' AND City = 'Evanston' AND NoAccounts = 2000
AND Security = 'very good';
```

```
Project1-YZC=> DELETE FROM Banks
Project1-YZC-> WHERE BankName = 'PickPocket Bank' AND City = 'Evanston' AND NoAccounts = 2000 AND Security = 'very good';
ERROR: update or delete on table "banks" violates foreign key constraint "robberiesfk" on table "robberies"
DETAIL: Key (bankname, city)=(PickPocket Bank, Evanston) is still referenced from table "robberies".
```

DELETE FROM Banks

WHERE BankName = 'Outside Bank' AND City = 'Chicago' AND NoAccounts = 5000 AND Security = 'good';

```
Project1-YZC=> DELETE FROM Banks
Project1-YZC-> WHERE BankName = 'Outside Bank' AND City = 'Chicago' AND NoAccounts = 5000 AND Security = 'good';
DELETE 0
```

Q5

INSERT INTO Robbers(RobberId,Nickname,Age,NoYears)

VALUES(1, 'Shotgun',70,0);

```
Project1-YZC=> INSERT INTO Robbers(RobberId,Nickname,Age,NoYears)
Project1-YZC-> VALUES(1, 'Shotgun',70,0 );
ERROR: duplicate key value violates unique constraint "robbers_pkey"
DETAIL: Key (robberid)=(1) already exists.
```

INSERT INTO Robbers(RobberId,Nickname,Age,NoYears)

VALUES(333, 'Jail Mouse',25,35);

```
Project1-YZC=> INSERT INTO Robbers(RobberId,Nickname,Age,NoYears)
Project1-YZC-> VALUES(333, 'Jail Mouse',25,35 );
ERROR: new row for relation "robbers" violates check constraint "prisonlimit"
DETAIL: Failing row contains (333, Jail Mouse, 25, 35).
```

Q6

INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)

VALUES(333,1,1, 'B-');

```
Project1-YZC=> INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)
Project1-YZC-> VALUES(333,1,1, 'B-' );
ERROR: insert or update on table "hasskills" violates foreign key constraint "hasskillfk"
DETAIL: Key (robberid)=(333) is not present in table "robbers".
```

INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)

VALUES(3,20,3, 'B+');

```
Project1-YZC=> INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)
Project1-YZC-> VALUES(3,20,3, 'B+' );
ERROR: insert or update on table "hasskills" violates foreign key constraint "hasskillfks"
DETAIL: Key (skillid)=(20) is not present in table "skills".
```

INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)

VALUES(1,7,1, 'A+');

```
Project1-YZC=> INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)
Project1-YZC-> VALUES(1,7,1, 'A+' );
ERROR: duplicate key value violates unique constraint "hasskillpk"
DETAIL: Key (robberid, skillid)=(1, 7) already exists.
```



```
INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)
VALUES(1,2,0, 'A' );
```

```
Project1-YZC=> INSERT INTO hasSkills(RobberId,SkillId,Preference,Grade)
Project1-YZC-> VALUES(1,2,0, 'A' );
ERROR: new row for relation "hasskills" violates check constraint "preferencelimit"
DETAIL: Failing row contains (1, 2, 0, A ).
```

Q7

```
DELETE FROM Skills
WHERE SkillId = 1 AND Description = 'Driving';
```

```
Project1-YZC=> DELETE FROM Skills
Project1-YZC-> WHERE SkillId = 1 AND Description = 'Driving';
DELETE 0
```

Q8

```
DELETE FROM Robbers
WHERE RobberId = 1 AND Nickname = 'Al Capone' AND Age = 31 AND NoYears = 2 ;
```

```
Project1-YZC=> DELETE FROM Robbers
Project1-YZC-> WHERE RobberId = 1 AND Nickname = 'Al Capone' AND Age = 31 AND NoYears = 2 ;
ERROR: update or delete on table "robbers" violates foreign key constraint "hasskillfkr" on
table "hasskills"
DETAIL: Key (robberid)=(1) is still referenced from table "hasskills".
Project1-YZC=>
```