T1:

START TRANSACTION;

SELECT person\_id FROM person WHERE email = '<email>';

INSERT INTO person (first\_name, last\_name, phone\_no, email, street\_id, city, landmark, states, pincode, dob, password\_)

VALUES ('<first\_name>', '<last\_name>', '<phone\_no>', '<email>', '<street\_id>', '<city>', '<landmark>', '<state>', '<pincode>', '<dob>', '<password>');

INSERT INTO customer (person\_id, NumberOfOrdersPlaced) VALUES (LAST\_INSERT\_ID(), 0);

COMMIT;

T2:

START TRANSACTION;

SELECT person\_id FROM person WHERE email = '<email>';

INSERT INTO person (first\_name, last\_name, phone\_no, email, street\_id, city, landmark, states, pincode, dob, password\_)

VALUES ('<first\_name>', '<last\_name>', '<phone\_no>', '<email>', '<street\_id>', '<city>', '<landmark>', '<state>', '<pincode>', '<dob>', '<password>');

INSERT INTO customer (person\_id, NumberOfOrdersPlaced) VALUES (LAST\_INSERT\_ID(), 0);

COMMIT;

**CONFLICT SERIALIZABLE**

|  |  |
| --- | --- |
| T1 | T2 |
| Start transaction |  |
|  | Start transaction |
| Read (Person) |  |
| Write(person) |  |
|  | Read (Person) |
|  | Write(person) |
| Write(customer) |  |
| commit |  |
|  | Write(customer) |
|  | commit |

**NON-CONFLICT SERIALIZABLE**

|  |  |
| --- | --- |
| T1 | T2 |
| Start transaction |  |
|  | Start transaction |
| Read (Person) |  |
|  | Read (Person) |
|  | Write(person) |
| Write(person) |  |
| Write(customer) |  |
| commit |  |
|  | Write(customer) |
|  | commit |

As there is a cycle in it

T1:

START TRANSACTION;

INSERT INTO Product (ProductName, ProductType, ProductPrice, Stock, RefundableStatus, ProductDescription)

VALUES ('<product\_name>', '<product\_type>', <product\_price>, <stock>, <refundable\_status>,'<product\_description>');

COMMIT;

T2:

START TRANSACTION;

INSERT INTO Product (ProductName, ProductType, ProductPrice, Stock, RefundableStatus, ProductDescription)

VALUES ('<product\_name>', '<product\_type>', <product\_price>, <stock>, <refundable\_status>,'<product\_description>');

COMMIT;

**NON-CONFLICT SERIALIZABLE**

|  |  |
| --- | --- |
| T1 | T2 |
| Start transaction |  |
|  | Start transaction |
|  | Read (Product) |
| Write(product) |  |
|  | Read (Product) |
| commit |  |
|  | commit |

As there is a cycle in it

**CONFLICT SERIALIZABLE**

|  |  |
| --- | --- |
| T1 | T2 |
| Start transaction |  |
|  | Start transaction |
| Write(product) |  |
| commit |  |
|  | Read (Product) |
|  | Read (Product) |
|  | commit |

**CONFLICT SERIALIZABLE**

|  |  |
| --- | --- |
| T1 | T2 |
| Start transaction |  |
|  | Start transaction |
| Read (Person) |  |
| Write(person) |  |
|  | Read (Person) |
|  | Write(person) |
| Write(customer) |  |
| commit |  |
|  | Write(customer) |
|  | commit |