Database HW2

A10515003 二資工三 鄧鵬宇

5.12 a.

INSERT INTO SEAT\_RESERVATION (FNO,LNO,DAT,SNO,CNA,CPH)

MODIFY LEG\_INSTANCE (FLGHT\_NUMBER = FNO,LEG\_NUMBER = LNO, DATE = DAT)

NUMBER\_OF\_AVAILABLE\_SEATS = NUMBER\_OF\_AVAILABLE\_SEATS +1

b.

需要檢查LEG\_INSTANCE中的Number\_of\_available\_seats,可用坐席的數量，是否能符合訂票坐席數量，還有就是SEAT\_RESERVATION中的座席號Seat\_Number是否可用。

c.

訂票更新操作，INSERT INTO SEAT\_RESERVATION是key, entity integrity, and referential integrity constraints，檢查LEG\_INSTANCE中的剩餘坐席操作不是這些約束。

d.

FLIGHT\_LEG Flight\_number > FLIGHT

LEG\_INSTANCE Arrival\_airport\_code > FLIGHT\_LEG

FARE Flight\_number > FLIGHT

CAN\_LAND Airplane\_type\_name > AIRPLANE\_TYPE

CAN\_LAND Airport\_code > AIRPORT

LEG\_INSTANCE Airplane\_id > AIRPLANE

SEAT\_RESERVATION Flight\_number Leg\_number > LEG\_INSTANCE

5.17

OPTION的Serial\_no引用了CAR的Serial\_no。

SALE的Serial\_no引用了CAR中的Serial\_no。

SALE的Salesperson\_id引用了SALESPERSON的Salesperson\_id。

CAR

Serial\_no, Model, Manufacturer, Price

1 A BMW 9999

2 S KIA 8888

OPTION

Serial\_no, Option\_name, Price

8 motor 300

9 wheel 100

SALE

Salesperson\_id, Serial\_no, Date, Sale\_price

991 1 040882 9999

992 9 040985 200

SALESPERSON

Salesperson\_id, Name. Phone

991 LUKE 0901

992 KIM 0909

INSERT INTO SALE VALUES(‘992’,’aka’,040480’,’2345’)

INSERT INTO SALESPERSON VALUES(‘NULL’,’alala’,’1234’)

8.15