CS363 – Assignment 4 (10 Points)

Due Friday, February 20, at the beginning of class

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Name your assignment as UserName\_A4 using your UWP username and drop it to folder

S:\Courses\CSSE\yangq\CS3630\DropBox\Assignment4 by the due time.

**Use DBDL to describe the table schema.**

1. (3 points) Map entity E1 to table schema.

E1

att1

att2: composite (att21, att22, att23)

att3: multi-value (limit unknown)

composite (att31, att32, att33)

Note: Different instances of E1 could share the same tuple of (att31, att32, att33).

Primary Key: att1

E1 (att1, att21, att22, att23) E2 (att1, att31, att32, att33, NewID)

PK: att1 PK: NewID

AK: None AK: None

FK: None FK: att1 references E1

1. (3 points) Map entity E2 and E3 with relationship R1 to table schema.

E2 E3

A1 B1: composite (B11, B12, B13)

A2 B2

Primary Key: A1 Primary Key: B1

E2 (0..\*) ----- R1 ----- (1..\*) E3

Attribute: D1, D2

E2 (A1, A2, NewID) E3 (B11, B12, B13, B2, NewID) R1 (NewID, D1, D2)

PK: A1 PK: B1 PK: NewID

AK: None AK: None AK: None

FK: NewID references R1 FK: NewID references R1 FK: None

1. (4 points) Map entity E4 and E5 with relationship R2 to table schema.

E4 E5

A3: composite (A31, A32) B3

A4 B4: multi-value

Primary Key: A4 B5

Primary Key: B3

E4 (0..\*) ----- R2 ----- (0..1) E5

E4 (A31, A32, A4, B3) E5 (B3, B5, A4) E6 (B3, B4, NewID)

PK: A4 PK: B3 PK: NewID

AK: None AK: None AK: None

FK: B3 references E5 FK: A4 references E4 FK: B3 references E5