**Evan Christensen**

**Stephen Marcel**

**person**(per\_id, first\_name, last\_name, city, street\_name, street\_number, apt , state, country, zip\_code, email)

Per\_id → first\_name, last\_name, city, street\_name, street\_number, apt, state, country, zip\_code, email

State → country

City, street\_name, street\_number, state → zip\_code

Relation **person** is in 3NF

**phone**(per\_id, country\_code, area\_code, phone\_numb, phone\_type)

Per\_id, phone\_numb → phone\_type, area\_code, country\_code

Area\_code → country\_code

Relation **phone** is in 3NF

**course**(c\_code, title, tier, description, status, retail\_price, prereq, institution)

C\_code → title, description, status, retail\_price, prereq, institution

Relation **course** is in 3NF

**section**( sec\_no, c\_code, year, complete\_date, offered\_by, sec\_format, price)

Sec\_no, c\_code, year → complete\_date, offered\_by, sec\_format, price

Relation **section** is in 3NF

**knowledge\_skill**(ks\_code, skill\_title, description, tier, cc\_code)

Ks\_code → skill\_title, description, tier, cc\_code

Skill\_title → ks\_code

Description → ks\_code

Relation **knowledge\_skill** is in 3NF

**skill\_category**(cc\_code, func\_code, work\_func, parent\_cc\_code, parent\_cc\_func)

Cc\_code, func\_code → work\_func, parent\_cc\_code, parent\_cc\_func

Relation **skill\_category** is in 3NF

**company**(comp\_id, comp\_name, city, street\_name, street\_number, apt , st\_abv, country, zip\_code, industry\_group, website)

Comp\_id → comp\_name, city, street\_name, street\_number, apt, st\_abv, country, zip\_code, industry\_group, website

Comp\_name → comp\_id

St\_abv → country

City, street\_name, street\_number, st\_abv → zip\_code

Relation **company** is in 3NF

**GCIS**(industry\_code, industry\_title, industry\_desc, parent\_code, tier)

Industry\_code → industry\_title, industry\_desc, parent\_code, tier

Relation **GCIS** is in 3NF

**sub\_ind**(comp\_id, industry\_code)

Comp\_id → industry\_code

Relation **sub\_ind** is in 3NF

**job\_category**(job\_cate, title, description, pay\_range\_high, pay\_range\_low, parent\_cate)

Job\_cate → title, description, pay\_range\_high, pay\_range\_low, parent\_cate

Title → description

Description → title

Job\_cate, title, description → parent\_cate

Relation **job\_category** is in 3NF

**position**(pos\_code, pos\_name, emp\_mode, pay\_rate, pay\_type, job\_cate, comp\_id)

Pos\_code → pos\_name, emp\_mode, pay\_rate, pay\_type, job\_cate, comp\_id

Relation **position** is in 3NF

**certificate**(cer\_code, t\_code, title, expire\_date, issued\_by)

Cer\_code --> t\_code, title, expire\_date, issued\_by

Relation **certificate** is in 3NF

**works**(per\_id, pos\_code, hire\_date, leave\_date)

Per\_id, pos\_code → hire\_date, leave\_date

Relation **works** is in 3NF

**has\_skill**(per\_id, ks\_code)

Per\_id, ks\_code → per\_id, ks\_code

Relation **has\_skill** is in 3NF

**pos\_requires**(ks\_code, pos\_code, tier)

Ks\_code, pos\_code → ks\_code, pos\_code

Relation **pos\_requires** is in 3NF

**core\_skill**(cc\_code, job\_cate)

Cc\_code, job\_cate → cc\_code, job\_cate

Relation **core\_skill** is in 3NF

**issues**(c\_code, cert\_code)

C\_code, cert\_code → c\_code, cert\_code

Relation **issues** is in 3NF

**teaches**(c\_code, ks\_code)

C\_code, ks\_code → c\_code, ks\_code

Relation **teaches** is in 3NF

**takes**(per\_id, sec\_no, c\_code, year)

Per\_id, sec\_no → c\_code, year

Relation **takes** is in 3NF

**requires\_cert**(pos\_code, cert\_code)

Pos\_code, cert\_code → pos\_code, cert\_code

Relation **requires\_cert** is in 3NF

**skill\_type**(cc\_code, ks\_code)

Ks\_code → cc\_code

Relation **skill\_type** is in 3NF

**has\_cert**(per\_id, cert\_code)

Per\_id, cert\_code → per\_id, cert\_code

Relation **has\_cert** is in 3NF