Relational Model

Entity: Farmer(f\_id, name, last\_name, address)

Primary Key: f\_id (NOT NULL)

Candidate Keys: {name, last\_name, address}, {f\_id}

Entity: FarmerAddressCity(f\_id, city, address)

Primary Key: {address, f\_id}

Foreign Key: f\_id -> Farmer ON DELETE CASCADE

Entity: FarmerAddressZipcode(f\_id, city, zip\_code)

Primary Key: {f\_id, zip\_code}

Foreign Key: f\_id -> Farmer ON DELETE CASCADE

Entity: FarmerPhoneNumber(f\_id, phone\_number)

Primary Key: phone\_number (NOT NULL)

Foreign Key: f\_id ON DELETE CASCADE

Entity: FarmerEmail(f\_id, email)

Primary Key: email (NOT NULL)

Foreign Key: f\_id ON DELETE CASCADE

Entity: Product(p\_id, p\_name, hardness\_level)

Primary Key: p\_id (NOT NULL)

Candidate Keys: {p\_id}, {p\_name, hardness\_level, alt\_level, min\_temp}

Entity: PlantDate\_HarvestDate(p\_id, plantation\_date, harvest\_date)

Primary Key: {p\_id, plantation\_date}

Foreign Key: p\_id -> Product ON DELETE CASCADE

Entity: AltLevel\_MinTemp(p\_id, alt\_level, min\_temp)

Primary Key: {p\_id, alt\_level}

Foreign Key: p\_id -> Product ON DELETE CASCADE

Entity: Registers(f\_id, price, quantity, iban, p\_id)

Primary Key: p\_id, f\_id

Foreign Keys: p\_id -> Product, f\_id -> Farmer

Candidate Keys: {price, quantity}, {quantity, iban}, {p\_id}

Entity: Market(m\_name, m\_id, phone\_number, budget)

Primary Key: m\_id (NOT NULL)

Candidate Keys: {m\_name, phone\_number},

{m\_name, budget}, {m\_id} {phone\_number}

Entity: MarketAddressCity(m\_id, city, address)

Primary Key: {m\_id, address}

Foreign Key: m\_id -> Farmer ON DELETE CASCADE

Entity: MarketAddressZipcode(m\_id, city, zip\_code)

Primary Key: {m\_id, zip\_code}

Foreign Key: m\_id -> Market ON DELETE CASCADE

Entity: Transaction(f\_id, p\_id, m\_id, t\_id ,amount\_sold, credit\_card)

Primary Key: t\_id (NOT NULL)

Foreign Keys: f\_id -> Farmer, m\_id -> Market, p\_id -> Product

Candidate Keys: {f\_id, p\_id}, {t\_id}

Entity: Produces(f\_id, p\_id, quantity)

Primary Key: {f\_id, p\_id}

Foreign Keys: f\_id -> Farmer, p\_id -> Product