**CSD2204 - Database Design and SQL**

**Day 2 Task**

**Entities used in ER diagram**

1. Mobile user
2. Mobile
3. Manufacturer
4. Certification Authority
5. Company store outlets

**Relationships between entities**

* Mobile user **using** Mobile
* Mobile **Manufactured By** Manufacturer
* Mobile **Certified By** Certification Authority
* Manufacturer **selling mobiles in** store outlets

**Attributes with Entities**

1. **Attributes for Mobile user**

* User id **(Unique primary key )**
* Name **(composite)**
  + First name
  + Last name
* Phone number (**multivalued**)
* Email id
* Address (**Composite & multivalued**)
  + Postal code
  + City
  + Street name

1. **Attributes for Mobile**

* IMEI
* Model Number
* Operating system
* Memory
  + RAM
  + Storage
* Year of Manufacturing

1. **Attributes for Manufacturer**

* Company name
* License number **(primary key)**
* Address **(Composite attributes)**
  + Street\_number
  + City
  + country
* Manufacturing department **(multivalued)**

1. **Certification Authority**

* Authority name
* Authority\_lic\_number **(Primary key)**
* Authorized\_person\_name
* Department **(Multivalued )**
* Address **(Composite)**
  + street address
  + city
  + country

1. **Attributes for company store outlets**

* Store Name
* Location **(Multivalued)**
* Outlet license number **(primary key)**
* Number of employees