Laila Chavez

AD 350

QACS Project

**Part l:**

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| --- | --- | --- | --- | --- |
| **PARENT** | **CHILD** | **TYPE** | **MAX** | **MIN** |
| PERSON | CUSTOMER | ID-Dependent, Subtype | 1:N | M-O |
| PERSON | EMPLOYEE | ID-Dependent, Subtype | 1:N | M-O |
| PERSON | SALE | Non-ID-Dependent, Strong | 1:N | M-O |
| SALE | SALE\_ITEM | ID-Dependent | N:M | M-M |
| ITEM | SALE\_ITEM | ID-Dependent | N:M | M-M |
| VENDOR | ITEM | Non-ID-Dependent, Weak | 1:N | M-O |
| ITEM | ORDER | Non-ID-Dependent, Weak | 1:N | M-O |

**Part ll:**

B. Weak entities: I saw weak entities by looking at an entity and seeing if it depends on another entity to exist. An example of this is PERSON AND SALE\_ITEM.

C. Supertype/Subtype: PERSON is Supertype and CUSTOMER and EMPLOYEE are Subtypes. SALE\_ITEM is Supertype and SALE and ITEM are Subtypes.

E.

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| --- | --- | --- | --- | --- |
| **PARENT** | **CHILD** | **REFERENTIAL INTEGRITY CONSTRAINT** | **UPDATE PARENT** | **DELETE PK** |
| PERSON | CUSTOMER | PersonID in CUSTOMER must exist in PersonID in PERSON | No | Yes |
| PERSON | EMPLOYEE | PersonID in EMPLOYEE must exist in PersonID in PERSON | No | Yes |
| CUSTOMER | SALE | PersonID in CUSTOMER must exist in PersonID in SALE | No | No |
| EMPLOYEE | SALE | PersonID in EMPLOYEE must exist in PersonID in SALE | No | No |
| SALE | SALE\_ITEM | SaleID in SALE\_ITEM must exist in SaleID in SALE | No | Yes |
| ITEM | SALE\_ITEM | ItemID in SALE\_ITEM must exist in ItemID in ITEM | No | Yes |
| ITEM | ORDER | ItemID in ORDER must exist in ItemID in ITEM | No | Yes |
| VENDOR | ORDER | VendorID in ORDER must exist in VendorID in VENDOR | No | Yes |