Relational Mapping

Customer (<u>CID</u> , Cname, city, state, cemail, COID)

Cust - phno (<u>CID, phno</u>)

Order (<u>OID</u>, date, time, OTID)

Transaction (<u>TID</u>, CI, CT, Amt)

Product (<u>PID</u>, Pname, pcost, mc, PSID)

Seller (<u>SID</u>, Sname, scity, sstate)

Reviews (<u>RID</u>, rating , RPID)

O - Contains (<u>OID, PID</u> , Pqty)

C - gives (<u>RID, CID</u> , Crating)

Candidate Keys & Functional dependencies
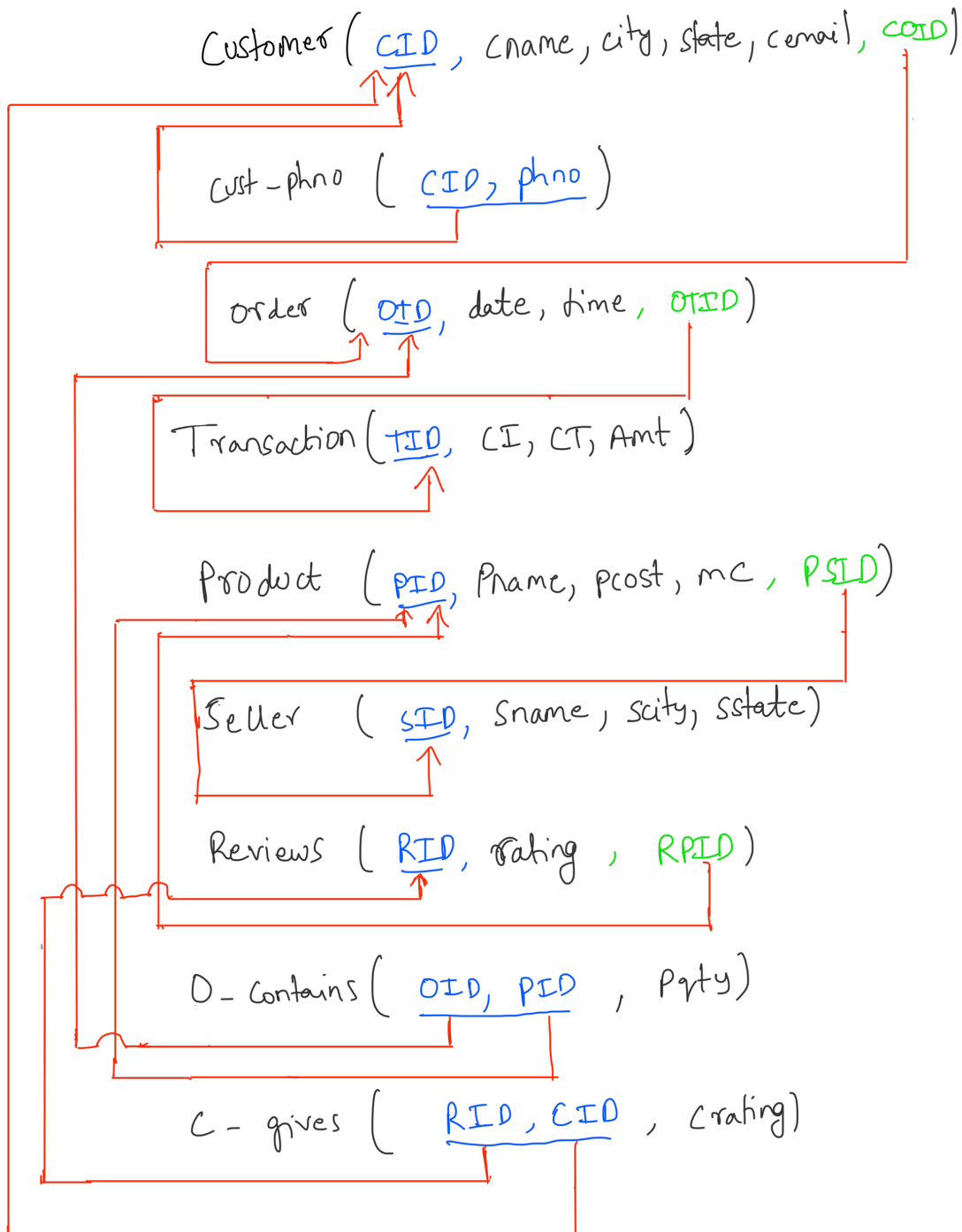
Customer

CK: CID,   COID

FD: CID $\longrightarrow$ { cname, cemail, state, city, COID }

   COID $\longrightarrow$ { cname, cemail, state, city, CID }

Cust-phno

CK :   { CID, ph-no }

FD :   trivial only (ck $\longrightarrow$ ck)

order

CK :   OID,   OTID

FD: OID $\longrightarrow$ { date, time, OTID }

   OTID $\longrightarrow$ { date, time, OID }

Transaction

CK :   TID

FD :   TID $-$ { CI, CT, Amt }

Product

CK :   PID

FD :   PID $\longrightarrow$ { Pname, Pcost, MC, PSID }

Seller

    CK: SID

    FD: $SID \rightarrow \{sname, scity, sstate\}$

Reviews

    CK: RID, RPID

    FD: $RID \rightarrow \{rating, RPID\}$

             $RPID \rightarrow \{rating, RID\}$

O – Contains

    CK: $\{OID, PID\}$

    FD: $\{OID, PID\} \rightarrow \{pqty\}$

C – gives

    CK: $\{RID, CID\}$

    FD: $\{RID, CID\} \rightarrow \{crating\}$