

1

PRODUCTS-IN-ORDERS(Pname, OPID, OPrice, OQuantity, Delivery-date, Status, SName, OID)

Keys: {PName}

Primary key: {PName}

FDs: PName \rightarrow OPID, PName \rightarrow OPrice, PName \rightarrow OQuantity, PName \rightarrow Delivery-date, PName \rightarrow Status, PName \rightarrow SName, PName \rightarrow OID

The relation is in 3NF

2

PRODUCTS(PName, Maker, Category) // Joshua

Keys: {PName}

Primary key: {PName}

FDs: PName \rightarrow Maker, PName \rightarrow Category

The relation is in 3NF

3

FEEDBACK(PName, UID, Date-time, Rating, Comment) // Joshua

Keys: {PName, UID, Date-time}

Primary key: {PName, UID, Date-time}

FDs: {PName, UID, Date-time} \rightarrow Rating, {PName, UID, Date-time} \rightarrow Comment

The relation is in 3NF

4

USERS(UID, UName)

Keys: {UID}

Primary key: {UID}

FDs: UID \rightarrow UName

The relation is in 3NF

#5

ORDERS(OID, Date-time, Shipping-address, UID)

Keys: {OID}, {UID, Date-time}

Primary Key: {OID}

FDs: OID \rightarrow Date-time, OID \rightarrow Shipping-address, OID \rightarrow UID, {UID, Date-time} \rightarrow OID, {UID, Date-time} \rightarrow Shipping-address

The relation is in BCNF and 3NF.

#6

(Subclass By ER Approach)

COMPLAINTS-ON-ORDERS(CID, OID)

Keys: {CID}

Primary Key: {CID}

FDs: CID \rightarrow OID

The relation is in BCNF and 3NF.

7

EMPLOYEES(EID, Name, Salary)

Keys: {EID}

Primary key: {EID}

FDs: EID \rightarrow Name, EID \rightarrow Salary

The relation is in 3NF

8

COMPLAINTS(CID, UID, Filed-date-time, Text, Status, EID,
Handled-date-time) //SC

Keys: {CID}

Primary key: {CID}

FDs: CID \rightarrow Filed-date-time, CID \rightarrow UID, CID \rightarrow Text, CID \rightarrow Status, CID
 \rightarrow EID, CID \rightarrow Handled-date-time

The relation is in 3NF

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SHOPS(SName)

Keys: {SName}

Primary Key: {SName}

FDs: None

The relation is in 3NF

10

PRICE-RECORD(PName, Start-date, End-date, Price)

Keys: {PName, Start-date}

Primary Key: {PName, Start-date}

FDs: {PName, Start-date} \rightarrow End-date, {PName, Start-date} \rightarrow Price

The relation is in 3NF

11

PRODUCTS-IN-SHOPS(PName, Maker, Category, SPID, SPrice, SQuantity,
SName)

Keys: {PName}

Primary key: {PName}

FDs: PName \rightarrow SPID, PName \rightarrow SPrice, PName \rightarrow SQuantity, PName \rightarrow Maker,
PName \rightarrow Category, PName \rightarrow SName

The relation is in 3NF

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COMPLAINTS-ON-SHOPS(CID, SName)

Keys: {CID}

Primary Key: {CID}

FDs: CID \rightarrow SName

The relation is in 3NF.

Name	Individual Contribution to Submission 2 (Lab 3)	Percentage of Contribution	Signature
Tang Yi Qwan	Convert ER to relational schema	16.7	Tang.
Khor Sze Chong	Convert ER to relational schema	16.7	f00
Joshua Chan Tuan Yin	Convert ER to relational schema	16.7	Zm
Huang Wei	Convert ER to relational schema	16.7	du.
Chen Pei Lin	Convert ER to relational schema	16.7	Cu
Zhou Yiqi	Convert ER to relational schema	16.7	Zhou Yiqi