

- Assessment item 3

Normalisation

Value: 13%

Due date: 04-Sep-2017

Return date: 26-Sep-2017

Submission method options

Alternative submission method

Task

Prod_code	Prod_Name	Purchase_date	Qty_sold	Prod_price	Inv_No	Inv_Date	Vendor_ID	Vendor_Name
ES12345	Esky Soft Cooler	12/7/2016	60	19.50	B-5565	17/7/2016	112	Innisfail
MAK2347	Angle Grinder	15/9/2016	10	85	B-5570	18/9/2016	106	RC Tools
KAR62705	High Pressure Cleaner	13/10/2016	50	190	B-5572	18/9/2016	103	Ardonly
AEC25874	Circular Saw	15/9/2016	15	119	B-5570	18/9/2016	106	RC Tools
ES2396	Water filter	20/8/2016	45	26.50	B-5585	25/8/2016	112	Innisfail

Using above table

1. Draw a dependency diagram to show the functional dependencies in the relation
2. Decompose the relation into a set of 3NF relations
3. Draw a relational schema for your 3NF relations and show the referential integrity constraints
4. Create an ERD that represents your 3NF relations

NOTE

For guidance on how to normalise database relations from a dependency diagram, watch this very short YouTube video: <https://www.youtube.com/watch?v=vkUyuLLgmwQ>

Manually drawing the dependency diagram, or the set of 3NF relations or the relational schema or the ERD is NOT acceptable.

Rationale

This assessment aligns with the following subject outcomes:

- be able to critically analyse a database design and apply normalisation theory and techniques;