



INFO20003 Database Systems

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Lecture 16
Hands-on Normalization

Week 8



Example #1

Report (reportNo, editor, deptNo, deptName, deptAddr, authorId, authName, authAddr)

reportNo → editor, deptNo

deptNo → deptName, deptAddr

authorId → authName, authAddr

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<u>reportNo</u>	editor	deptNo	deptName	deptAddr	<u>authorId</u>	authName	authAddr
4216	woolf	15	design	argus1	53	mantel	cs-tor
4216	woolf	15	design	argus1	44	bolton	mathrev
4216	woolf	15	design	argus1	71	koenig	mathrev
5789	koenig	27	analysis	argus2	26	fry	folkstone
5789	koenig	27	analysis	argus2	38	umar	prise
5789	koenig	27	analysis	argus2	71	koenig	mathrev

- Is the Report table in 2NF? If not, put the table in 2NF.
- Are there any insert, update or delete anomalies with these 2NF relations?



Class (courseNumber, roomNumber, instructorName, studentNumber, workshopNumber, grade, tutor)

workshopNumber → tutor

studentNumber, courseNumber → grade, workshopNumber

courseNumber → roomNumber, instructorName

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- Normalise the relation into 3NF

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OrderItem

<u>OrderID</u>	<u>ItemID</u>	CustomerID	CustomerPostcode	ItemQuantity	CanDispatchFrom
4018	161	191	3053	6	Truganina, Hallam
4022	228	196	3212	1	Somerton
4033	525	25	3124	3	Somerton, Hallam

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CustomerID → CustomerPostcode

OrderID → CustomerID

OrderID, ItemID → ItemQuantity, CanDispatchFrom

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- Normalize the relation to 3NF.



- Transactions

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