

HOW MANY TABLES TO USE
TO STORE INFORMATION?

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EVERY STUDENT HAS JUST ONE
EMAIL ADDRESS, THERE IS NO
REASON FOR EMAIL ADDRESS TO
LIE IN A SEPARATE TABLE FROM
THE REST OF THE STUDENT
INFORMATION

ONE-TO-ONE COMPULSORY INFORMATION STUDENT AND EMAIL ADDRESS

WHEN THE RELATIONSHIP
BETWEEN THE PIECES OF
INFORMATION ARE ONE-TO-ONE
AND THE INFORMATION IS NOT
OPTIONAL WE CAN PUT IT
TOGETHER IN THE SAME TABLE

StudentID	Name	Email

HOW MANY TABLES TO USE TO STORE INFORMATION?

STUDENTS MAY OR MAY NOT HAVE SIBLINGS, IF THE MAIN STUDENTS TABLE INCLUDED SIBLING INFORMATION THEN THERE WOULD BE MANY EMPTY CELLS

StudentID	Name	Email
1	John	<u>john@gmail.com</u>
2	Ellen	<u>ellen@gmail.com</u>

THE PRIMARY KEY FROM THE STUDENTS TABLE, IS USED TO IDENTIFY THE STUDENTS IN THE SIBLINGS TABLE!

ONE-TO-ONE OPTIONAL INFORMATION STUDENT AND SIBLING INFORMATION

THE STUDENTS TABLE WOULD HOLD ONLY THE MANDATORY INFORMATION

SIBLING INFORMATION SHOULD BE A SEPARATE TABLE

StudentID	Sibling Name
1	Jack
1	Jane
2	Sue

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ONE-TO-MANY OR MANY-TO-ONE RELATIONSHIP EMPLOYEES AND THEIR MANAGERS

COMPLETE INFORMATION ABOUT
THE MANAGER CANNOT BE
STORED EACH TIME WITH EACH OF
HER REPORTS

WE NEED AT LEAST 2 TABLES TO
REPRESENT THIS INFORMATION ONE FOR
ALL EMPLOYEES AND ONE FOR THE
RELATIONSHIP BETWEEN THE EMPLOYEE
AND THE MANAGER

EmployeeID	Name	Email
123	John	john@gmail.com
234	Ellen	ellen@gmail.com
555	Jack	jack@gmail.com

EmployeeID	ManagerEmployeeID
123	234
555	234

HOW MANY TABLES TO USE TO STORE INFORMATION?

MANY-TO-MANY RELATIONSHIP STORES, PRODUCTS AND REVENUE DATA

REVENUE DATA IS SPECIFIED FOR EVERY PRODUCT SOLD IN EVERY STORE - REVENUE LINKS STORES AND PRODUCTS IN A MANY TO MANY RELATIONSHIP

THIS NEEDS 3 TABLES TO REPRESENT THE INFORMATION, ONE FOR STORES, ONE FOR PRODUCTS AND ONE LINKING STORE AND THE PRODUCTS SOLD THERE

StoreID	StoreLocation
1	Bellandur
2	Koramangala

ProductID	ProductName
1	Nutella
2	Peanut Butter
3	Bananas

StoreId	ProductID	Date	Revenue
1	1	January 18, 2016	5689
2	2	January 18, 2016	2345.67
2	3	January 17, 2016	1234.34