

EXAMPLE #7

FIND ALL STUDENT IDS WHERE STUDENT LIVES OFF
CAMPUS

(ASSUME THAT OFF-CAMPUS STUDENTS
HAVE DORMITORYNAME SET TO NULL)

FIND ALL STUDENT IDS WHERE STUDENT LIVES OFF CAMPUS

THIS IS A TABLE NAMED 'CAMPUS_HOUSING'

StudentID	DormitoryName	AptNumber
1	Gandhi House	110
2	Akbar Hall	231
3	Gandhi House	345
4	NULL	NULL

COLUMNS ARE NAMED 'STUDENTID', 'DORMITORYNAME', 'APTNUMBER'

THIS IS A TABLE NAMED 'STUDENTS'

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	janani@loonycorn.com
2	Swetha	Kolalapudi	F	swetha@loonycorn.com
3	Navdeep	Singh	M	navdeep@loonycorn.com
4	Vitthal	Srinivasan	M	vitthal@loonycorn.com

COLUMNS ARE NAMED 'STUDENTID', 'FIRSTNAME', 'LASTNAME', 'GENDER' AND 'EMAIL'

FIND ALL STUDENT IDS WHERE STUDENT
LIVES OFF CAMPUS

WHICH
ROWS?

WHERE STUDENT
LIVES OFF CAMPUS

WHICH
COLUMNS?

STUDENTID

WHICH
TABLES?

CAMPUS_HOUSING

ASSUME THAT OFF-CAMPUS STUDENTS
HAVE DORMITORYNAME SET TO NULL

**FIND ALL STUDENT IDS WHERE STUDENT
LIVES OFF CAMPUS**

SELECT

**WHICH
COLUMNS?**

STUDENTID

FROM

**WHICH
TABLES?**

CAMPUS_HOUSING

WHERE

**WHICH
ROWS?**

**WHERE STUDENT
LIVES OFF CAMPUS**

**I.E. DORMITORY
NAME IS NULL**

**FIND ALL STUDENT IDS WHERE STUDENT
LIVES OFF CAMPUS**

SELECT STUDENTID

FROM CAMPUS_HOUSING

WHERE DORMITORYNAME IS NULL;

DORMITORYNAME IS NULL

**REMEMBER THAT IS NULL AND IS
NOT NULL ARE THE CORRECT WAYS TO
TEST FOR NULL VALUES**

**DORMITORYNAME = NULL WOULD
BE - WRONG! WRONG! WRONG!**

FIND ALL STUDENT IDS WHERE STUDENT LIVES OFF CAMPUS

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**FIND ALL STUDENT IDS WHERE STUDENT LIVES OFF
CAMPUS**

StudentID
4

EXAMPLE #8

FIND ALL EMAIL IDS WHERE STUDENT LIVES OFF
CAMPUS

(ASSUME THAT OFF-CAMPUS STUDENTS
HAVE DORMITORYNAME SET TO NULL)

FIND ALL EMAIL IDS WHERE STUDENT LIVES OFF CAMPUS

THIS IS A TABLE NAMED 'CAMPUS_HOUSING'

StudentID	DormitoryName	AptNumber
1	Gandhi House	110
2	Akbar Hall	231
3	Gandhi House	345
4	NULL	NULL

COLUMNS ARE NAMED 'STUDENTID', 'DORMITORYNAME', 'APTNUMBER'

THIS IS A TABLE NAMED 'STUDENTS'

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	janani@loonycorn.com
2	Swetha	Kolalapudi	F	swetha@loonycorn.com
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COLUMNS ARE NAMED 'STUDENTID', 'FIRSTNAME', 'LASTNAME', 'GENDER' AND 'EMAIL'

**FIND ALL EMAIL IDS WHERE STUDENT
LIVES OFF CAMPUS**

**WHICH
ROWS?**

**WHERE STUDENT
LIVES OFF CAMPUS**

**WHICH
COLUMNS?
EMAIL ID**

**WHICH
TABLES?
STUDENTS,
CAMPUS_
HOUSING**

**FIND ALL EMAIL IDS WHERE STUDENT
LIVES OFF CAMPUS**

SELECT

**WHICH
COLUMNS?**

EMAIL ID

**THIS IS OUR FIRST
MULTI-TABLE QUERY
- NOT TO WORRY!**

FROM

**WHICH
TABLES?**

**STUDENTS,
CAMPUS_HOUSING**

WHERE

**WHICH
ROWS?**

**WHERE STUDENT
LIVES OFF CAMPUS**

FIND ALL EMAIL IDS WHERE STUDENT LIVES OFF CAMPUS

SELECT	WHICH COLUMNS?	EMAIL ID	THIS IS OUR FIRST MULTI-TABLE QUERY - NOT TO WORRY!
FROM	WHICH TABLES?	STUDENTS, CAMPUS_HOUSING	
WHERE	WHICH ROWS?	WHERE STUDENT LIVES OFF CAMPUS	

AND WE ALSO HAVE TO MATCH THE STUDENTID COLUMN IN THE 2 TABLES!

AND WE ALSO HAVE TO MATCH THE STUDENTID COLUMN IN THE 2 TABLES!

StudentID	DormitoryName	AptNumber
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STUDENTS.STUDENTID =
CAMPUS_HOUSING.STUDENTID

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FIND ALL EMAIL IDS WHERE STUDENT LIVES OFF CAMPUS

SELECT WHICH COLUMNS? EMAIL ID

FROM WHICH TABLES? STUDENTS, CAMPUS_HOUSING

WHERE WHICH ROWS? WHERE STUDENT LIVES OFF CAMPUS

AND STUDENTS.STUDENTID =
CAMPUS_HOUSING.STUDENTID

THIS IS OUR FIRST MULTI-TABLE QUERY - NOT TO WORRY!

**FIND ALL EMAIL IDS WHERE STUDENT
LIVES OFF CAMPUS**

SELECT EMAIL

FROM STUDENTS , CAMPUS_HOUSING

WHERE DORMITORYNAME IS NULL

**AND STUDENTS.STUDENTID =
CAMPUS_HOUSING.STUDENTID ;**

**FIND ALL EMAIL IDS WHERE STUDENT
LIVES OFF CAMPUS**

SELECT EMAIL

FROM STUDENTS S, CAMPUS_HOUSING C

WHERE DORMITORYNAME IS NULL

**AND S.STUDENTID =
C.STUDENTID ;**

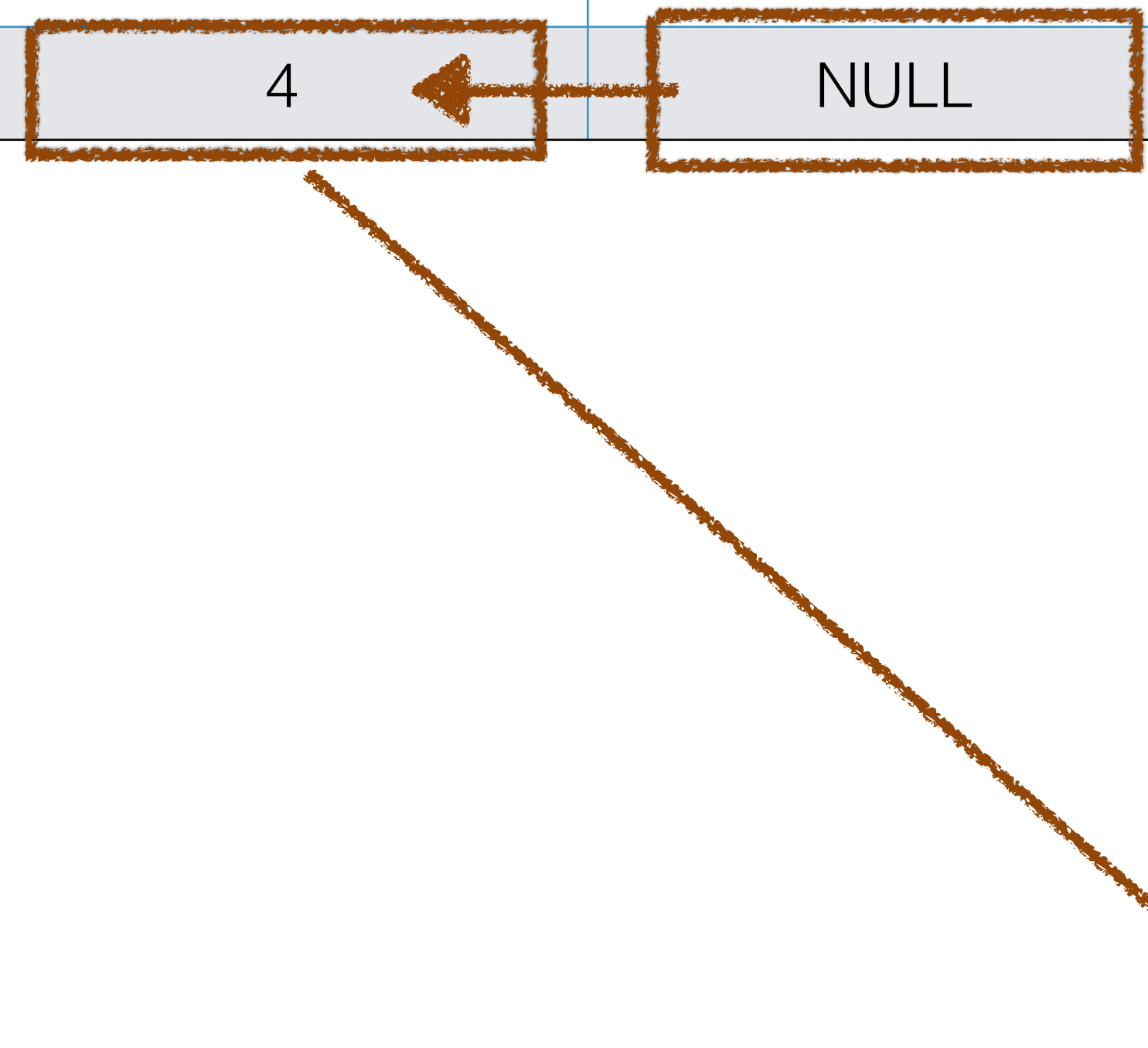
DORMITORYNAME IS NULL

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Email
<u>vitthal@loonycorn.com</u>