

EXAMPLE #10

FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400

FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400

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@loonyc orn.com
2	Swetha	Kolalapudi	F	swetha@loony corn.com
3	Navdeep	Singh	M	navdeep@loon ycorn.com
4	Vitthal	Srinivasan	M	vitthal@loonyc orn.com

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

**FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400**

**WHICH
ROWS?**

**WHERE
APARTMENT
NUMBERS ARE
GREATER THAN 200
AND LESS THAN 400**

**WHICH
COLUMNS?
STUDENT ID**

**WHICH
TABLES?
CAMPUS_
HOUSING**

**FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400**

SELECT

**WHICH
COLUMNS?**

STUDENT ID

FROM

**WHICH
TABLES?**

CAMPUS_HOUSING

WHERE

**WHICH
ROWS?**

**WHERE APARTMENT
NUMBERS ARE GREATER THAN
200 AND LESS THAN 400**

**FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400**

SELECT STUDENTID

FROM CAMPUS_HOUSING

**WHERE APTNUMBER > 200 AND
APTNUMBER < 400;**

**FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400**

```
SELECT          STUDENTID  
  
FROM    CAMPUS_HOUSING  
  
WHERE    APTNUMBER BETWEEN  
          201 AND 399;
```

**APTNUMBER BETWEEN
201 AND 399**

BETWEEN IS HANDY WAY OF
SPECIFYING A RANGE

**IT INCLUDES BOTH THE
NUMBERS SPECIFIED IN THE
RANGE**

FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400

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FIND ALL STUDENTS WHOSE APARTMENT NUMBERS
ARE GREATER THAN 200 AND LESS THAN 400

StudentID
2
3

EXAMPLE #11

FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

THIS IS A TABLE NAMED 'CAMPUS_HOUSING'

StudentID	DormitoryName	AptNumber
1	Gandhi House	110
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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@loonyc orn.com
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3	Navdeep	Singh	M	navdeep@loon ycorn.com
4	Vitthal	Srinivasan	M	vitthal@loonyc orn.com

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

**FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'**

**WHICH
ROWS?**

**WHERE FIRST
NAMES ARE
EITHER 'JANANI'
OR 'SWETHA'**

**WHICH
COLUMNS?**

**APARTMENT
NUMBER**

**WHICH
TABLES?
STUDENTS,
CAMPUS_
HOUSING**

FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

SELECT

WHICH
COLUMNS?

APARTMENT
NUMBER

FROM

WHICH
TABLES?

STUDENTS,
CAMPUS_HOUSING

WHERE

WHICH
ROWS?

WHERE FIRST NAMES
ARE EITHER 'JANANI'
OR 'SWETHA'

FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

SELECT

WHICH
COLUMNS?

APARTMENT
NUMBER

FROM

WHICH
TABLES?

STUDENTS,
CAMPUS_HOUSING

WHERE

WHICH
ROWS?

WHERE FIRST NAMES
ARE EITHER 'JANANI' OR
'SWETHA'

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
1	Gandhi House	110
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3	Gandhi House	345
4	NULL	NULL

STUDENTS.STUDENTID =
CAMPUS_HOUSING.STUDENTID

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1	Janani	Ravi	F	janani@loonycorn.com
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FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

SELECT

WHICH
COLUMNS?

APARTMENT
NUMBER

FROM

WHICH
TABLES?

STUDENTS,
CAMPUS_HOUSING

WHERE

WHICH
ROWS?

WHERE FIRST NAMES
ARE EITHER 'JANANI' OR
'SWETHA'

AND

STUDENTS.STUDENTID =
CAMPUS_HOUSING.STUDENTID

**FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'**

```
SELECT      APTNUMBER  
  
FROM        STUDENTS ,  
            CAMPUS_HOUSING  
  
WHERE       (FIRSTNAME = 'JANANI' OR  
            FIRSTNAME = 'SWETHA' )  
  
            AND STUDENTS.STUDENTID =  
            CAMPUS_HOUSING.STUDENTID ;
```


FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

SELECT APTNUMBER

FROM STUDENTS S,

CAMPUS_HOUSING C

WHERE (FIRSTNAME = 'JANANI' OR
FIRSTNAME = 'SWETHA')

AND S.STUDENTID = C.STUDENTID ;

FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

SELECT APTNUMBER

FROM STUDENTS S,

CAMPUS_HOUSING C

WHERE FIRSTNAME IN (' JANANI' , ' SWETHA')

AND S.STUDENTID = C.STUDENTID ;

FIRSTNAME IN
(' JANANI ' , ' SWETHA ')

IN (VALUE1, VALUE2, VALUE3)

**IS A HANDY SHORTHAND WAY OF FILTERING ON A
SPECIFIC LIST OF VALUES**

FIND APARTMENT NUMBERS FOR STUDENTS WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

StudentID	DormitoryName	AptNumber
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FIND APARTMENT NUMBERS FOR STUDENTS
WHOSE FIRST NAMES ARE 'JANANI' OR 'SWETHA'

AptNumber
110
231

EXAMPLE #12

**FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'**

FIND APARTMENT NUMBERS FOR STUDENTS WHOSE FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'

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'

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1	Janani	Ravi	F	janani@loonycorn.com
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COLUMNS ARE NAMED 'STUDENTID', 'FIRSTNAME', 'LASTNAME', 'GENDER' AND 'EMAIL'

**FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'**

**WHICH
ROWS?**

**WHERE FIRST
NAMES ARE
NEITHER 'JANANI'
NOR 'SWETHA'**

**WHICH
COLUMNS?**

**APARTMENT
NUMBER**

**WHICH
TABLES?
STUDENTS,
CAMPUS_
HOUSING**

**FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'**

SELECT

**WHICH
COLUMNS?**

**APARTMENT
NUMBER**

FROM

**WHICH
TABLES?**

**STUDENTS,
CAMPUS_HOUSING**

WHERE

**WHICH
ROWS?**

**WHERE FIRST NAMES
ARE NEITHER 'JANANI'
NOR 'SWETHA'**

**FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'**

SELECT

**WHICH
COLUMNS?**

**APARTMENT
NUMBER**

FROM

**WHICH
TABLES?**

**STUDENTS,
CAMPUS_HOUSING**

WHERE

**WHICH
ROWS?**

**WHERE FIRST NAMES
ARE NEITHER 'JANANI'
NOR 'SWETHA'**

**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!

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STUDENTS.STUDENTID =
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**FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'**

```
SELECT          APTNUMBER  
  
FROM    STUDENTS,  CAMPUS_HOUSING  
  
WHERE    (FIRSTNAME <> 'JANANI'  AND  
          FIRSTNAME <> 'SWETHA' )  
  
          AND (STUDENTS.STUDENTID =  
                CAMPUS_HOUSING.STUDENTID);
```

**FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'**

```
SELECT          APTNUMBER

FROM    STUDENTS S,  CAMPUS_HOUSING C

WHERE    (FIRSTNAME <> 'JANANI'  AND
           FIRSTNAME <> 'SWETHA' )

           AND (S.STUDENTID = C.STUDENTID);
```

**FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'**

```
SELECT          APTNUMBER  
  
FROM    STUDENTS S,  CAMPUS_HOUSING C  
  
WHERE          FIRSTNAME NOT IN  
              ( ' JANANI' , ' SWETHA' )  
  
              AND (S.STUDENTID = C.STUDENTID);
```

FIRSTNAME NOT IN
(' JANANI ' , ' SWETHA ')

NOT IN (VALUE1, VALUE2, VALUE3)

IS A HANDY SHORTHAND WAY OF **EXCLUDING A SPECIFIC
LIST** OF VALUES

FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'

StudentID	DormitoryName	AptNumber
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FIND APARTMENT NUMBERS FOR STUDENTS WHOSE
FIRST NAMES ARE NOT 'JANANI' OR 'SWETHA'

AptNumber
345
NULL