# Data Centric RAD

## Lab 2 MySQL Review II

### Part 1

* Get superheroes\_wk2.sql from Moodle.
* Import it into MySQL as follows using same procedure as in Lab 1.

use superheroes;

Insert the following information into the superhero\_table:

name = Penguin

City = Gotham City

Real First Name = Danny

Real Surname = DeVitto

dob = January 14th 1955

powers = 44.57

INSERT INTO superhero\_table (name,city,Real\_First\_Name,Real\_Surname,dob,powers) values('Joker','Gotham City','Danny','DeVitto','1995-01-14','powers');

* Insert the following information into the superhero\_table:

name = Joker

city = New York

powers = 77.10

INSERT INTO superhero\_table (name,city,powers) values('Joker','New York','powers');

* Update the superhero\_table so that everywhere a first name or surname is NULL, it is now UNKNOWN instead.

HINT: When checking for NULL, you can’t say = NULL, you should say is NULL.

update superhero\_table

set real\_first\_name='UNKNOWN',real\_surname='UNKNOWN'

where real\_surname is null and real\_first\_name is null;

* Display the number of superheroes, whose birthdays are known, as ‘Number of known Birthdays’.

select dob as 'Number of known Birthdays'

from superhero\_table

where dob is not null

* Change the birthday of Spiderman from Metropolis to January 28th 1980.

update superhero\_table

set dob="1980-01-29"

where name LIKE 'Spiderman' and city Like'Metropolis';

* Increase the powers by 1 for each ‘Bat’ related superhero in Gotham City.4

update superhero\_table

set powers = powers + 1

where name like 'Bat%' and city Like '%Gotham City%';

* Delete all superheroes whose *dob* is NULL.

HINT: When checking for NULL, you can’t say = NULL, you should say is NULL.

delete from superhero\_table

where dob is null;

delete from superhero\_table

where real\_first\_name like ‘Bruce’ and city like ‘Metropolis’ and Month(dob) = 01;

delete from superhero\_table

where real\_first\_name like 'Bruce'

and city like 'Metropolis'

and Month(dob) = 01;

* Delete all superheroes whose real first name is *Bruce*, and who live in *Metropolis* and who were born in *January*.

delete from superhero\_table

where real\_first\_name like 'Bruce'

and city like 'Metropolis'

and Month(dob) = 01;

* Increase the powers of all superheroes who were born in *November* by 1.

update superhero\_table

set powers = powers + 1

where Month(dob) = 11;

* Display the name, real first name, real surname and dob (as *Oldest DOB*) of the *oldest* superhero.///leave out
* Display the total powers (as *Total Metropolis Powers*) of all superheroes in *Metropolis*.

Select sum(powers) as 'Total Metropolis Powers'

from superhero\_table

Where city like 'Metropolis';

* Display the city and the total powers (as *Total Powers*) of all superheroes in the city, for each city.

Select city, sum(powers) as 'Total Powers'

from superhero\_table

Group by city;

* Display the superhero name, and the number of cities a superhero of that name lives in.

Select name, count(city)

From superhero\_table

Group by name;

* Display the year and the number of superheroes born in that year.

Select Year(dob), count(\*)

From superhero\_table

Group by Year(dob);

* Display the city and the total powers of all superheroes in that city, only for cities whose total superhero powers is greater than 100.

Select city, sum(powers)

from superhero\_table

Group by city

having sum(powers) > 100;

* Show the minimum, maximum and average powers of the superheroes.

Select city,min(powers),max(powers),avg(powers)

from superhero\_table

Group by city;

* Show the city and the average powers of all superheroes in that city; for all cities.

Select city, avg(powers)

from superhero\_table

Group by city