

122a-midterm2 Cheat Sheet

by lolitskevin via cheatography.com/61137/cs/15834/

selecting without having

SELECT d.did, d.budget,

avg(e.salary) FROM Emp e, Dept d,

Works w WHERE e.eid=w.did and

w.did=d.did and w.pcttime>=40 GROUP

BY d.did,d.budget;

selecting with joins

SELECT u.user_id, u.first_name,
u.last_name

FROM user u natural join class c
natural join takes t natural join
student s

WHERE c.dept = 'CS' and s.major =
'ART'

GROUP BY u.user_id

HAVING COUNT(u.user_id) >= 4;

selecting with fancy joins

SELECT u.user_id, u.email,
s.user_id as sid
FROM user u left join student s on
u.user_id = s.user_id WHERE
s.user_id is null;

union

SELECT first_name, last_name
FROM customer
UNION
SELECT first_name, last_name
FROM staff
ORDER BY 1, 2;

create/drop view

DROP VIEW CSStudentView;

CREATE VIEW CSStudentView(user_id,
first_name, last_name, class_no,
dept, cno, grade, title, level)

AS

SELECT s.user_id, u.first_name,
u.last_name, c.class_no, c.dept,
c.cno, t.grade, co.title, co.level

FROM student s natural join user u
natural join class c natural join
takes t natural join course co
WHERE s.user_id = u.user_id
GROUP BY user_id;

create/drop trigger

END; //
DELIMITER ;

DROP TRIGGER update_popularity;

DELIMITER //

CREATE TRIGGER update_popularity

AFTER INSERT ON Likes FOR EACH ROW

BEGIN

UPDATE Post

SET popularity = popularity + 1

WHERE Post.post_id = NEW.post_id;

trigger with if

delimiter //
CREATE TRIGGER NoLowerAge BEFORE
UPDATE ON Emp FOR EACH ROW
BEGIN
IF NEW.age < OLD.age
THEN SET NEW.age = OLD.age;
END IF;
END;//
delimiter;</pre>

relational algebra

 π bid ((σ age = 35 Λ rating >= 5 (Sailor)) Reserves) \cap π bid ((σ rating < 5 (Sailor)) Reserves))

insert / delete

INSERT INTO products (productCode,
name, quantity, price) VALUES
('PEC', 'Pencil 2B', 10000, 0.48),
('PEC', 'Pencil 2H', 8000, 0.49);
DELETE FROM products WHERE price >
0.4;

available operators

AND, OR, NOT, XOR, IN, NOT IN, BETWEEN, NOT BETWEEN, IS NULL, IS NOT NULL, AS (ALIAS), ORDER BY .. ASC DESC, LIMIT aggregate functions: COUNT, MAX, MIN, AVG, SUM, STD, GROUP_CONCAT



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