שאילתא 1 – GROUP BY

שאילתא מספר הפעמים הממוצע שכל האנשים הזמינו את המגרש.

.

select avg(num\_times) from(

SELECT Person\_ID, count(\*) as num\_times

FROM time\_orderd

group by person\_id) xx

Graphical user interface, text, application

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שאילתא 2- JOIN

שאילתא שמציגה מי הזמין מיגרש כדורסל באיזה שעה באיזה תאריך ובאיזה מיקום

SELECT p.ordering, t\_o.date, t\_o.start\_time, t\_o.end\_time, c.city, c.street

FROM time\_orderd t\_o

inner join city\_ground\_id cg on t\_o.city\_ground\_ID = cg.ID\_city

inner join playground pg on cg.ID\_Playground = pg.playground\_id

inner join city c on cg.ID\_city = c.city\_id

inner join patrons p on p.order\_id = t\_o.Person\_ID

where pg.type = 'basketball'

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ביצוע יעול לשאילתא

יצירת טבלה זמנית

SELECT p.ordering, t\_o.date, t\_o.start\_time, t\_o.end\_time, c.city, c.street

FROM time\_orderd t\_o

inner join city\_ground\_id cg on t\_o.city\_ground\_ID = cg.ID\_city

inner join playground pg on cg.ID\_Playground = pg.playground\_id

inner join city c on cg.ID\_city = c.city\_id

inner join patrons p on p.order\_id = t\_o.Person\_ID

where pg.type = 'basketball';

select @playid:=playground\_id from playground pg where pg.type = 'basketball';

SELECT p.ordering, t\_o.date, t\_o.start\_time, t\_o.end\_time, c.city, c.street

FROM time\_orderd t\_o

inner join city\_ground\_id cg on t\_o.city\_ground\_ID = cg.ID\_city

inner join city c on cg.ID\_city = c.city\_id

inner join patrons p on p.order\_id = t\_o.Person\_ID

where ID\_Playground=@playid;

CREATE TEMPORARY TABLE petronorders

SELECT p.ordering, t\_o.date, t\_o.start\_time, t\_o.end\_time, c.city, c.street,pg.type

FROM time\_orderd t\_o

inner join city\_ground\_id cg on t\_o.city\_ground\_ID = cg.ID\_city

inner join playground pg on cg.ID\_Playground = pg.playground\_id

inner join city c on cg.ID\_city = c.city\_id

inner join patrons p on p.order\_id = t\_o.Person\_ID;

select ordering, date, start\_time, end\_time, city, street from petronorders

where type = 'basketball';

DROP TEMPORARY TABLE petronorders;

Diagram

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שאילתא 3 INNER

שאילתא שמציגה איפה יש מגרש שבו יש אפשרות לשחק באחד ממשחקי הכדור

select c.city, c.street, e.sports\_equipment

from city c

inner join city\_ground\_id cg on c.city\_id = cg.ID\_city

inner join equipment e on cg.Equipment\_ID = e.idequipment\_id

where e.sports\_equipment like '%ball%'

Graphical user interface, text

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Diagram

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ייעול

select c.city, c.street

from city c

inner join city\_ground\_id cg on c.city\_id = cg.ID\_city

where cg.Equipment\_ID =

(select distinct sports\_equipment from equipment e

where e.sports\_equipment like '%ball%')

Diagram

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שאילתא 4 פשוטה

מציגה באיזה ערים יש מגרשי משחק

SELECT c.city , c.street FROM city c;

Graphical user interface, text

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שאילתא 5 GROUP BY

מציגה את כמות הפעמים שאותו בן אדם הזמין את המגרש איזה מגרש באיזה עיר ורחוב ומעל להזמנה אחת.

SELECT p.ordering, c.city, c.street,e.sports\_equipment, count(\*) as sum\_order

FROM time\_orderd ti

inner join patrons p on ti.Person\_ID = p.order\_id

inner join city c on c.city\_id = ti.city\_ground\_ID

inner join city\_ground\_id cg on cg.ID\_city = c.city\_id

inner join equipment e on e.idequipment\_id = cg.Equipment\_ID

group by person\_id

having count(\*) > 1

Text

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Diagram

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ייעול טבלה זמנית

CREATE TEMPORARY TABLE temporders

SELECT p.ordering, c.city, c.street,e.sports\_equipment,person\_id

FROM time\_orderd ti

inner join patrons p on ti.Person\_ID = p.order\_id

inner join city c on c.city\_id = ti.city\_ground\_ID

inner join city\_ground\_id cg on cg.ID\_city = c.city\_id

inner join equipment e on e.idequipment\_id = cg.Equipment\_ID;

select ordering,city,street,sports\_equipment, count(\*) as orderamount

from temporders

group by person\_id

having count(\*) > 1;

drop temporary table temporders;

Diagram

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שאילתא 6 – פשוטה

מציגה איזה סוגי מגרשים קיימים

SELECT sports\_equipment FROM equipment;

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שאילתא 7- שאילתא מקוננת

באיזה ערים לא קיים מגרש טניס

select distinct c.city

from city\_ground\_id cg

inner join city c on cg.ID\_city = c.city\_id

inner join playground p on p.playground\_id = cg.ID\_Playground

where p.type not in (select type from playground where type = 'tennis' )

Graphical user interface, text, application

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Diagram

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שאילתא לאחר אופטומיזציה

select c.city, c.street

from city\_ground\_id cg

inner join city c on cg.ID\_city = c.city\_id

where cg.ID\_Playground not in (select cg.ID\_Playground from city\_ground\_id cg where cg.ID\_Playground = 40 )

Diagram

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שאילתא 8 – JOIN

מציגה את סוג המגרשים לערים ברחובות.

select p.type,c.city,c.street

from playground p

inner join city\_ground\_id cg on p.playground\_id = cg.ID\_Playground

inner join city c on c.city\_id = cg.ID\_city

Text, table

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שאילתא 9 - שמציגה את כמות הזמן הממוצע הכללית שהזמינו מגרשים

SELECT sec\_to\_time(avg (time\_to\_sec(timediff(end\_time,start\_time)))) as avg\_time\_order

FROM time\_orderd;

Graphical user interface, text, application

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שאילתא סעיף 2

חיפוש של השם יעל ואם קיים מבצע הזמנה למשתמש.

START TRANSACTION;

SELECT @UOID:= order\_id FROM playgroud.patrons where ordering='yael';

insert into time\_orderd

VALUES ('2021-02-22','09:00:00','12:00:00',

(SELECT ID FROM playgroud.city\_ground\_id

inner join playgroud.city on city.city\_id=city\_ground\_id.ID\_city

inner join playgroud.playground on playground.playground\_id=city\_ground\_id.ID\_Playground

where city='Tel Aviv' and street='Jabotinsky' and type='basketball')

,@UOID);

COMMIT;

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לא מחזיר תוצאה כי אין משתמש כזה. בעצם בוצע ROLLBACK כי אין לשאילתא מה להחזיר.

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מחזיר את המזהה הייחודי של יובל.