

create table TEAMS (TEAM\_ID integer, NAME varchar(20) , primary key (TEAM\_ID))

create table PLAYER (PLAYER\_ID integer, LAST varchar(2), FIRST varchar(20), TEAM\_ID integer, NUMBER integer, primary key(PLAYER\_ID), foreign key (TEAM\_ID) references TEAMS(TEAM\_ID))

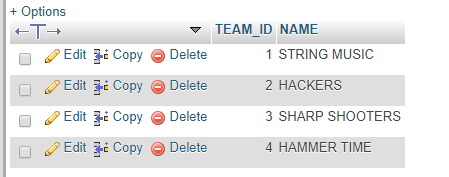
create table PLAYER\_DATA(PLAYER\_ID integer, HEIGHT integer, WEIGHT integer, primary key(PLAYER\_ID), foreign key(PLAYER\_ID) references PLAYERS(PLAYER\_ID) on delete cascade)

create table GAMES(GAME\_ID integer, GAME\_DT date , HOME\_TEAM\_ID integer, GUEST\_TEAM\_ID integer, primary key (GAME\_ID), foreign key (HOME\_TEAM\_ID) references TEAMS(TEAM\_ID), foreign key (GUEST\_TEAM\_ID) references TEAMS(TEAM\_ID))

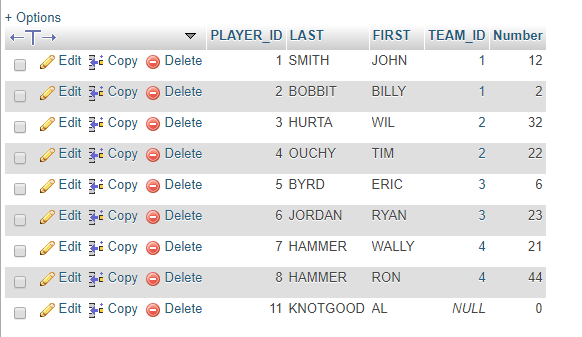
create table SCORES(GAME\_ID integer, TEAM\_ID integer, SCORE integer, WIN\_LOSE varchar(4), primary key(GAME\_ID,TEAM\_ID), foreign key (TEAM\_ID) references TEAMS(TEAM\_ID) , foreign key (TEAM\_ID) references GAMES(GUEST\_TEAM\_ID) ,foreign key (TEAM\_ID) references GAMES(GUEST\_TEAM\_ID) , foreign key (HOME\_TEAM\_ID) references GAMES(TEAM\_ID))

1)

SELECT \* FROM TEAMS

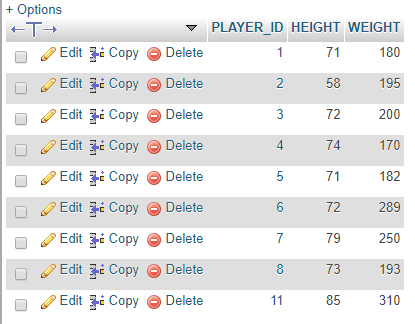


SELECT \* FROM PLAYERS



2) and 1) ?

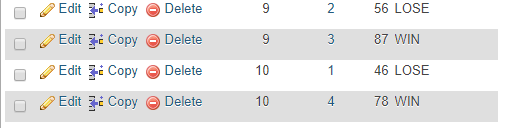
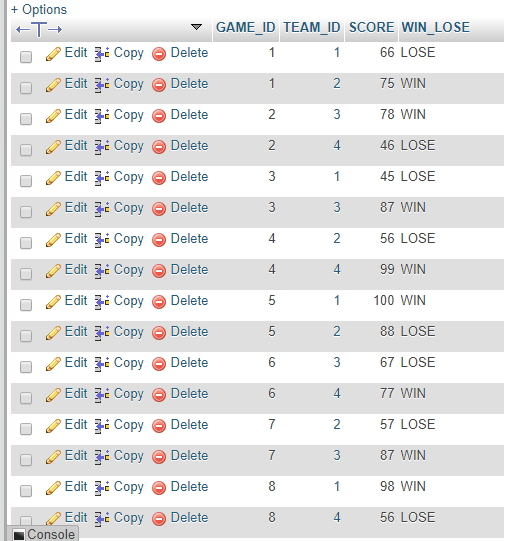
SELECT \* FROM PLAYER\_DATA;



SELECT \* FROM GAMES;



SELECT\* FROM SCORES;



3)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(HEIGHT) AS avgHEIGHT FROM PLAYER\_DATA



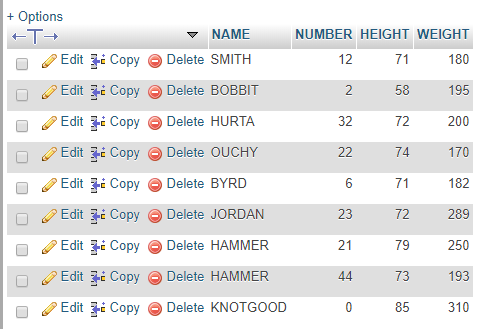
4)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(WEIGHT) AS avgWEIGHT FROM PLAYER\_DATA



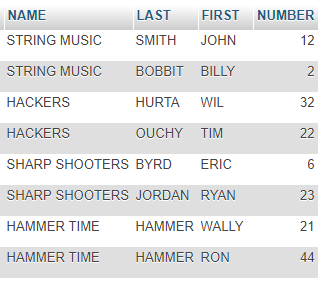
5)

CREATE VIEW PLAYER\_LIST AS SELECT P.LAST AS NAME, P.NUMBER , PD.HEIGHT,PD.WEIGHT FROM PLAYER\_DATA PD, PLAYERS P WHERE PD.PLAYER\_ID = P.PLAYER\_ID



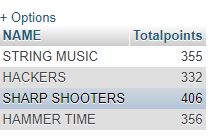
6)

CREATE VIEW ROOSTER AS SELECT T.NAME, P.LAST P.FIRST, P.NUMBER FROM PLAYERS P, TEAMS T WHERE P.TEAM\_ID = T.TEAM\_ID

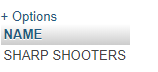


7)

create VIEW TOTAL\_PIONTS as SELECT T1.NAME , sum(S1.SCORE) as Totalpoints from SCORES S1, TEAMS T1 where T1.TEAM\_ID = S1.TEAM\_ID group by T1.TEAM\_ID;



[select](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) NAME from TOTAL\_PIONTS WHERE Totalpoints = ([select](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [Max](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_max)(Totalpoints) from TOTAL\_PIONTS)

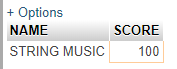


SELECT T1.NAME , sum(S1.SCORE) as Totalpoints from SCORES S1, TEAMS T1 where T1.TEAM\_ID = S1.TEAM\_ID group by T1.TEAM\_ID order by Totalpoints DESC Limit 1



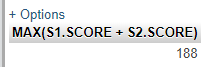
8)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) T.NAME, S.SCORE FROM TEAMS T, SCORES S WHERE T.TEAM\_ID = S.TEAM\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) SCORE = ([SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [MAX](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_max)(SCORE) FROM SCORES)



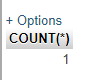
9)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [MAX](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_max)(S1.SCORE + S2.SCORE) from SCORES S1, SCORES S2 where S1.GAME\_ID = S2.GAME\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) S1.TEAM\_ID <> S2.TEAM\_ID



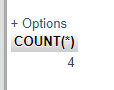
10)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) FROM PLAYERS WHERE TEAM\_ID [IS](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is) NULL



11)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) FROM TEAMS



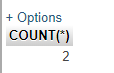
12)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) FROM PLAYERS



13)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) FROM GAMES WHERE GAME\_DT = '2002/05/05'



14)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) P.FIRST,P.LAST FROM PLAYERS P, PLAYER\_DATA PD WHERE PD.PLAYER\_ID = P.PLAYER\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) PD.PLAYER\_ID = ([SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) PD1.PLAYER\_ID FROM PLAYER\_DATA PD1 where PD1.HEIGHT = ([SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html)[MAX](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_max)(PD2.HEIGHT) FROM PLAYER\_DATA PD2))

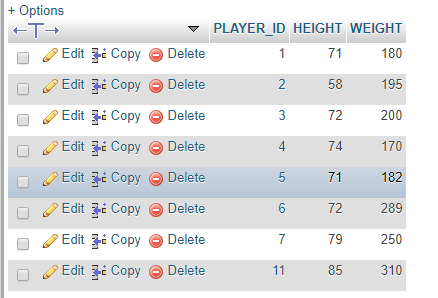


15) should delete based on player ID because two players could have same name

[UPDATE](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/update.html) PLAYERS [SET](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/set.html) TEAM\_ID = 4 WHERE FIRST = 'AL' [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) LAST = 'KNOTGOOD'

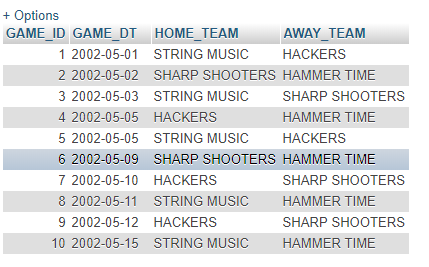
[DELETE](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/delete.html) FROM PLAYERS WHERE FIRST = 'RON' [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) LAST = 'HAMMER'





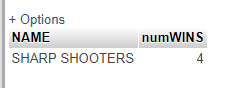
16)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) G.GAME\_ID, G.GAME\_DT, T1.NAME AS HOME\_TEAM, T2.NAME AS AWAY\_TEAM FROM GAMES G, TEAMS T1, TEAMS T2 WHERE G.HOME\_TEAM\_ID = T1.TEAM\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) G.GUEST\_TEAM\_ID = T2.TEAM\_ID



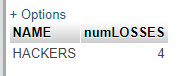
17)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) T.NAME, [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) AS numWINS FROM SCORES S, TEAMS T WHERE T.TEAM\_ID = S.TEAM\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) S.WIN\_LOSE = 'WIN' GROUP BY T.NAME ORDER BY [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) DESC LIMIT 1



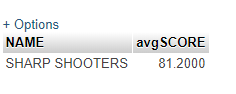
18)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) T.NAME, [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) AS numLOSSES FROM SCORES S, TEAMS T WHERE T.TEAM\_ID = S.TEAM\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) S.WIN\_LOSE = 'LOSE' GROUP BY T.NAME ORDER BY [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) DESC LIMIT 1



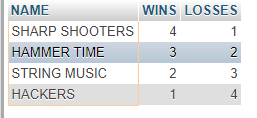
19)

SELECT T.NAME, AVG(S.SCORE) AS avgSCORE FROM SCORES S, TEAMS T WHERE T.TEAM\_ID = S.TEAM\_ID GROUP BY T.NAME ORDER BY avgSCORE DESC LIMIT 1



20)

[SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) CHART.NAME, CHART.WINS, CHART2.LOSSES FROM ( [SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) T.NAME, [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) AS WINS FROM SCORES S, TEAMS T WHERE T.TEAM\_ID = S.TEAM\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) S.WIN\_LOSE = 'WIN' GROUP BY T.NAMEORDER BY [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) DESC ) AS CHART JOIN ( [SELECT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) T.NAME, [COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) AS LOSSES FROM SCORES S, TEAMS T WHERE T.TEAM\_ID = S.TEAM\_ID [AND](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) S.WIN\_LOSE = 'LOSE' GROUP BY T.NAME ORDER BY[COUNT](http://loki.trentu.ca/phpMyAdmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) ASC ) AS CHART2 WHERE CHART.NAME = CHART2.NAME



SELECT DISTINCT G.GAME\_ID, G.GAME\_DT, S1.SCORE AS HOME\_TEAM, S2.SCORE AS AWAY\_TEAM FROM GAMES G, SCORES S1, SCORES S2 WHERE (G.HOME\_TEAM\_ID = S1.TEAM\_ID AND G.GAME\_ID = S1.GAME\_ID )AND (G.GUEST\_TEAM\_ID = S2.TEAM\_ID AND G.GAME\_ID = S2.GAME\_ID)

