Database homework 1 report

Task A:

1. Task_A.sql transcript:

```
mysql> source task_A.sql
Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.04 sec)

Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.03 sec)

Query OK, 138 rows affected (0.01 sec)
Records: 138  Deleted: 0  Skipped: 0  Warnings: 0

Query OK, 182527 rows affected (1.71 sec)
Records: 182527  Deleted: 0  Skipped: 0  Warnings: 0

Query OK, 1825270 rows affected (29.75 sec)
Records: 1825270  Deleted: 0  Skipped: 0  Warnings: 0

Query OK, 1089969 rows affected (8.97 sec)
Records: 1089969  Deleted: 0  Skipped: 0  Warnings: 0

Query OK, 1825270 rows affected (30.47 sec)
Records: 1825270  Deleted: 0  Skipped: 0  Warnings: 0
```

2. ‘Describe’ command for each table:

```
mysql> describe champ;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| champion_name | varchar(15) | NO   |     | NULL    |       |
| champion_id   | int(11)     | NO   | PRI | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
2 rows in set (0.00 sec)
```

```
mysql> describe match_info
    -> ;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| match_id | int(11)     | NO   | PRI | NULL    |       |
| duration | int(11)     | YES  |     | NULL    |       |
| version  | varchar(15) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

```
mysql> describe participant;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| player_id   | int(11)     | NO   | PRI | NULL    |       |
| match_id    | int(11)     | NO   | MUL | NULL    |       |
| player      | tinyint(4)  | YES  |     | NULL    |       |
| champion_id | int(11)     | NO   |     | NULL    |       |
| ss1         | varchar(15) | YES  |     | NULL    |       |
| ss2         | varchar(15) | YES  |     | NULL    |       |
| position    | varchar(13) | NO   |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)
```

```
mysql> describe stat;
+----------------------+-------------+------+-----+---------+-------+
| Field                | Type        | Null | Key | Default | Extra |
+----------------------+-------------+------+-----+---------+-------+
| player_id            | int(11)     | NO   | PRI | NULL    |       |
| win                  | tinyint(1)  | YES  |     | NULL    |       |
| item1                | smallint(6) | YES  |     | NULL    |       |
| item2                | smallint(6) | YES  |     | NULL    |       |
| item3                | smallint(6) | YES  |     | NULL    |       |
| item4                | smallint(6) | YES  |     | NULL    |       |
| item5                | smallint(6) | YES  |     | NULL    |       |
| item6                | smallint(6) | YES  |     | NULL    |       |
| kills                | tinyint(4)  | YES  |     | NULL    |       |
| deaths               | tinyint(4)  | YES  |     | NULL    |       |
| assists              | tinyint(4)  | YES  |     | NULL    |       |
| longesttimespentliving | smallint(6) | YES  |     | NULL    |       |
| doublekills          | tinyint(4)  | YES  |     | NULL    |       |
| triplekills          | tinyint(4)  | YES  |     | NULL    |       |
| quadrakills          | tinyint(4)  | YES  |     | NULL    |       |
| pentakills           | tinyint(4)  | YES  |     | NULL    |       |
| legendarykills       | tinyint(4)  | YES  |     | NULL    |       |
| goldearned           | mediumint(9) | YES  |     | NULL    |       |
| firstblood           | tinyint(1)  | YES  |     | NULL    |       |
+----------------------+-------------+------+-----+---------+-------+
19 rows in set (0.00 sec)
```

```
mysql> describe teamban;
+-------------+------------+------+-----+---------+-------+
| Field       | Type       | Null | Key | Default | Extra |
+-------------+------------+------+-----+---------+-------+
| match_id    | int(11)    | NO   | PRI | NULL    |       |
| team        | char(1)    | NO   |     | NULL    |       |
| champion_id | int(11)    | NO   |     | NULL    |       |
| banturn     | tinyint(4) | NO   | PRI | NULL    |       |
+-------------+------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

3. Questions:

(1) What the difference between type “char” and type “varchar”?

char: 固定大小的字符，預設大小是一，可以透過後方加上括號來指定大小。可以存比輸入預設的字符長度還小的字串，但使用的空間

仍會是原本預設，會浪費空間。

varchar: 動態方式儲存自符，跟 char 幾乎相同，但在儲存較原本預設斥串長度還小的字串時，只會使用本身字串所需的記憶體，較省空間。

(2) Type "boolean" would be stored as which type in MySQL?

Tinyint(1) (從 stat 裡的 firstblood 可以看到)

(3) How many bytes it should take for "tinyint", "smallint", "mediumint", "int"? (e.g. 8 bytes for "bigint") And what's the range they can express? (e.g. from -1000 to 1000)

Type	# of byte	Range
tinyint	1	0~255
smallint	2	-8,388,608~ 8,388,607
mediumint	3	-32,768~ 32,767
int	4	-2,147,483,648~ 2,147,483,647

(4) What do you think about this table schema? If you can change this table architecture, how would you modify it and why?

a. 基本上在做下面的題目時就會發現有做到多次的 champion_name 跟 champion_id 互相配對的地方，這樣會造成很大的麻煩，所以應該把 participant 裡面直接加上 champion_name，會方便很多。

Task C:

1. SQL Screenshot:

```
SELECT COUNT(champion_id) AS cnt
FROM champ;
```

Query result:

```
mysql> source 1.sql
+-----+
| cnt |
+-----+
| 138 |
+-----+
1 row in set (0.01 sec)
```

2. SQL Screenshot:

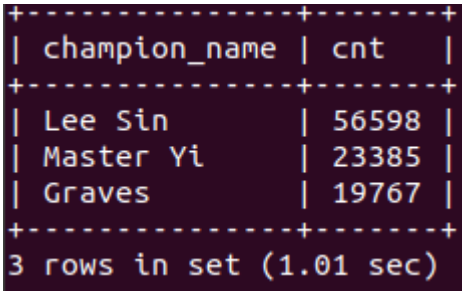
```
SELECT COUNT(S.A) AS cnt
FROM(
    SELECT DISTINCT SUBSTRING_INDEX(version, '.',2) AS A
    FROM match_info
) S;
```

Query result:

3. SQL Screenshot:

```
SELECT S.champion_name, S.cnt
FROM
(
    SELECT C.champion_name, P.cnt
    FROM champ C,
    (
        SELECT champion_id, COUNT(*) AS cnt
        FROM participant
        WHERE position LIKE '%JUNGLE%'
        GROUP BY champion_id
    ) P
    WHERE P.champion_id = C.champion_id
) S
ORDER BY S.cnt DESC
LIMIT 3;
```

Query result:

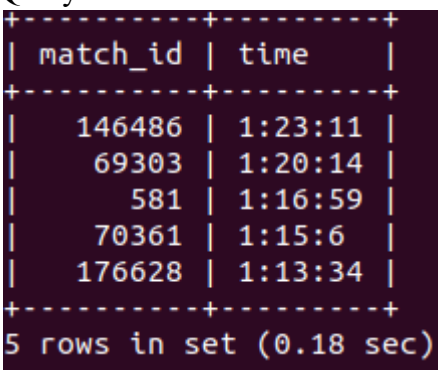


```
+---------------+-------+
| champion_name | cnt   |
+---------------+-------+
| Lee Sin       | 56598 |
| Master Yi     | 23385 |
| Graves        | 19767 |
+---------------+-------+
3 rows in set (1.01 sec)
```

4. SQL Screenshot:

```
SELECT match_id, CONCAT(FLOOR(duration/3600), ':',FLOOR((duration-3600* FLOOR(duration/3600))/60),
    ':', duration-3600* FLOOR(duration/3600)-60*FLOOR((duration-3600* FLOOR(duration/3600))/60)) AS time
FROM match_info
ORDER BY duration DESC
LIMIT 5;
```

Query result:



```
+----------+---------+
| match_id | time    |
+----------+---------+
|   146486 | 1:23:11 |
|    69303 | 1:20:14 |
|      581 | 1:16:59 |
|    70361 | 1:15:6  |
|   176628 | 1:13:34 |
+----------+---------+
5 rows in set (0.18 sec)
```

5. SQL Screenshot:

```
SELECT CASE
    WHEN F.win = 1 then 'win'
    WHEN F.win = 0 then 'lose'
    END
    AS win_lose,
    F.cnt
FROM
(
    SELECT COUNT(A.ma) AS cnt, A.win
    FROM
    (
        SELECT P.match_id AS ma, AVG(S.longesttimespentliving) AS av, S.win
        FROM participant P,
        (
            SELECT player_id, win, longesttimespentliving
            FROM stat
        ) S
        WHERE P.player_id = S.player_id
        GROUP BY P.match_id, S.win
    ) A
    WHERE A.av > 1200
    GROUP BY A.win
) F;
```

Query result:

```
mysql> source hw1-6.sql
+----------+-----+
| win_lose | cnt |
+----------+-----+
| lose     | 338 |
| win      | 806 |
+----------+-----+
2 rows in set (22.62 sec)
```

6. SQL Screenshot:

```
SELECT MA.position, C.champion_name
FROM champ C,
(
    SELECT D.position, MAX(D.cnt) AS cnt
    FROM
    (
        SELECT P.position, P.champion_id, COUNT(P.player_id) AS cnt
        FROM match_info M,
        (
            SELECT position, champion_id, player_id, match_id
            FROM participant
            WHERE position = 'DUO_CARRY' OR position = 'DUO_SUPPORT'OR position = 'JUNGLE'OR position = 'MID'OR position = 'TOP'
        ) P
        WHERE M.duration BETWEEN 2399 AND 3001 AND M.match_id = P.match_id
        GROUP BY P.position, P.champion_id
    ) D
    GROUP BY D.position
) MA,
(
    SELECT P.position, P.champion_id, COUNT(P.player_id) AS cnt
    FROM match_info M,
    (
        SELECT position, champion_id, player_id, match_id
        FROM participant
        WHERE position = 'DUO_CARRY' OR position = 'DUO_SUPPORT'OR position = 'JUNGLE'OR position = 'MID'OR position = 'TOP'
    ) P
    WHERE M.duration BETWEEN 2399 AND 3001 AND M.match_id = P.match_id
    GROUP BY P.position, P.champion_id
)AL
WHERE MA.position = AL.position AND MA.cnt = AL.cnt AND AL.champion_id = C.champion_id
ORDER BY FIELD(MA.position, 'DUO_CARRY', 'DUO_SUPPORT', 'JUNGLE', 'MID', 'TOP')
;
```

Query result:

```
mysql> source hw1-7.sql
+-------------+---------------+
| position    | champion_name |
+-------------+---------------+
| DUO_CARRY   | Caitlyn       |
| DUO_SUPPORT | Thresh        |
| JUNGLE      | Lee Sin       |
| MID         | Ahri          |
| TOP         | Riven         |
+-------------+---------------+
5 rows in set (21.00 sec)
```

7. SQL Screenshot:

```
SELECT MA.position, C.champion_name, MA.kda
FROM champ C,
(
    SELECT P.position, S.kda, P.champion_id
    FROM
    (
        SELECT position, champion_id, player_id
        FROM participant
        WHERE position = 'DUO_CARRY' OR position = 'DUO_SUPPORT'OR position = 'JUNGLE'OR position = 'MID'OR position = 'TOP'
    ) P,
    (
        SELECT player_id, (kills+assists)/deaths AS kda
        FROM stat
        WHERE deaths != 0
    ) S
    WHERE P.player_id = S.player_id
) AL,
(
    SELECT P.position, MAX(S.kda) AS kda
    FROM
    (
        SELECT position, champion_id, player_id
        FROM participant
        WHERE position = 'DUO_CARRY' OR position = 'DUO_SUPPORT'OR position = 'JUNGLE'OR position = 'MID'OR position = 'TOP'
    ) P,
    (
        SELECT player_id, (kills+assists)/deaths AS kda
        FROM stat
        WHERE deaths != 0
    ) S
    WHERE P.player_id = S.player_id
    GROUP BY P.position
) MA
WHERE AL.position= MA.position AND AL.kda = MA.kda AND C.champion_id = AL.champion_id
ORDER BY FIELD(MA.position, 'DUO_CARRY', 'DUO_SUPPORT', 'JUNGLE', 'MID', 'TOP')
;
```

Query result:

```
mysql> source hw1-8.sql
+-------------+---------------+---------+
| position    | champion_name | kda     |
+-------------+---------------+---------+
| DUO_CARRY   | Jhin          | 46.0000 |
| DUO_SUPPORT | Janna         | 48.0000 |
| JUNGLE      | Evelynn       | 44.0000 |
| MID         | Brand         | 45.0000 |
| TOP         | Pantheon      | 40.0000 |
+-------------+---------------+---------+
5 rows in set (38.01 sec)
```

8. SQL Screenshot:

```
SELECT DISTINCT champion_name
FROM champ
WHERE champion_id NOT IN (
    SELECT T.champion_id
    FROM teamban T, match_info M
    WHERE M.version LIKE '7.7%' AND M.match_id = T.match_id
)
ORDER BY champion_name;
```

Query result:

```
mysql> mysql> source hw1-9.sql
+---------------+
| champion_name |
+---------------+
| Kayn          |
| Ornn          |
| Rakan         |
| RekSai        |
| Sion          |
| Xayah         |
+---------------+
6 rows in set (0.42 sec)
```

9. SQL Screenshot:

```
SELECT SUBSTRING_INDEX(M.version, '.',2) AS `version`
        , SUM(CASE
                    WHEN S.win = 1 THEN 1
                    WHEN S.win = 0 THEN 0
                    END) AS win_cnt
        , SUM(CASE
                    WHEN S.win = 0 THEN 1
                    WHEN S.win = 1 THEN 0
                    END) AS lose_cnt
        , SUM(CASE
                    WHEN S.win = 1 THEN 1
                    WHEN S.win = 0 THEN 0
                    END) / COUNT(*) AS win_ratio
FROM match_info M, (
    SELECT player_id, win
    FROM stat
) S,
(
    SELECT L.player_id, L.match_id
    FROM
    (
        SELECT P.player_id, P.match_id, P.player
        FROM
        (
            SELECT champion_id
            FROM champ
            WHERE champion_name = 'Lee Sin'
        ) C, participant P
        WHERE C.champion_id = P.champion_id
    ) L,
    (
        SELECT P.player_id, P.match_id, P.player
        FROM
        (
            SELECT champion_id
            FROM champ
            WHERE champion_name = 'Teemo'
        ) C, participant P
        WHERE C.champion_id = P.champion_id
    ) T
    WHERE L.match_id = T.match_id AND (
        1 = CASE
                WHEN L.player BETWEEN 1 AND 5 AND T.player BETWEEN 1 AND 5 THEN 1
                WHEN L.player BETWEEN 6 AND 10 AND T.player BETWEEN 6 AND 10 THEN 1
                ELSE 0
            END
    )
) PID
WHERE PID.player_id = S.player_id AND PID.match_id = M.match_id
GROUP BY SUBSTRING_INDEX(M.version, '.',2);
```

Query result:

```
mysql> source hw1-10.sql
+---------+---------+----------+-----------+
| version | win_cnt | lose_cnt | win_ratio |
+---------+---------+----------+-----------+
| 4.10    |       2 |        1 |    0.6667 |
| 4.12    |       0 |        1 |    0.0000 |
| 4.15    |       1 |        1 |    0.5000 |
| 4.17    |       0 |        1 |    0.0000 |
| 4.18    |       0 |        1 |    0.0000 |
| 4.19    |       0 |        1 |    0.0000 |
| 4.21    |       1 |        1 |    0.5000 |
| 4.9     |       1 |        0 |    1.0000 |
| 5.1     |       1 |        2 |    0.3333 |
| 5.12    |       1 |        0 |    1.0000 |
| 5.13    |       0 |        1 |    0.0000 |
| 5.15    |       0 |        1 |    0.0000 |
| 5.19    |       1 |        0 |    1.0000 |
| 5.20    |       2 |        0 |    1.0000 |
| 5.21    |       0 |        2 |    0.0000 |
| 5.24    |       1 |        1 |    0.5000 |
| 5.5     |       1 |        0 |    1.0000 |
| 5.6     |       0 |        1 |    0.0000 |
| 5.7     |       1 |        0 |    1.0000 |
| 6.1     |       0 |        1 |    0.0000 |
| 6.13    |       1 |        0 |    1.0000 |
| 6.14    |       1 |        0 |    1.0000 |
| 6.18    |       1 |        1 |    0.5000 |
| 6.19    |       1 |        0 |    1.0000 |
| 6.2     |       1 |        1 |    0.5000 |
| 6.20    |       3 |        2 |    0.6000 |
| 6.21    |       0 |        2 |    0.0000 |
| 6.22    |       2 |        1 |    0.6667 |
| 6.23    |       3 |        2 |    0.6000 |
| 6.24    |       4 |        3 |    0.5714 |
| 6.5     |       1 |        0 |    1.0000 |
| 6.6     |       0 |        1 |    0.0000 |
| 6.8     |       1 |        0 |    1.0000 |
| 6.9     |       1 |        1 |    0.5000 |
| 7.10    |     282 |      304 |    0.4812 |
| 7.2     |       2 |        1 |    0.6667 |
| 7.3     |       0 |        1 |    0.0000 |
| 7.4     |       1 |        1 |    0.5000 |
| 7.5     |       2 |        2 |    0.5000 |
| 7.6     |       2 |        5 |    0.2857 |
| 7.7     |      32 |       29 |    0.5246 |
| 7.8     |     210 |      237 |    0.4698 |
| 7.9     |     527 |      464 |    0.5318 |
+---------+---------+----------+-----------+
43 rows in set (22.95 sec)
```

10. SQL Screenshot:

```
SELECT PL.champion_name, SUM(CASE
                    WHEN S1.win = 1 THEN 1
                    WHEN S1.win = 0 THEN 0
                    END) / COUNT(S1.win) AS win_ratio, AVG((S1.kills + S1.assists) / S1.deaths) AS self_kda,
                    AVG(S1.goldearned) AS self_avg_gold, PL.enemy_champ_name, AVG((S2.kills + S2.assists) / S2.deaths) AS enemy_kda,
                    AVG(S2.goldearned) AS enemy_avg_gold, COUNT(*) AS battle_record
FROM stat S1, stat S2, (
    SELECT P.champion_id, P.player_id, C.champion_name, R.enemy_id, R.enemy_champ_name
    FROM participant P, champ C,
    (
        SELECT P.player, P.match_id, P.player_id AS enemy_id, C.enemy_champ_name
        FROM
        (
            SELECT champion_id, champion_name AS enemy_champ_name
            FROM champ
            WHERE champion_name = 'Renekton'
        ) C, participant P
        WHERE C.champion_id = P.champion_id AND P.position = 'TOP'
    ) R
    WHERE P.match_id = R.match_id AND C.champion_id = P.champion_id AND (
        1 = CASE
                WHEN P.player BETWEEN 1 AND 5 AND R.player BETWEEN 6 AND 10 THEN 1
                WHEN P.player BETWEEN 6 AND 10 AND R.player BETWEEN 1 AND 5 THEN 1
                ELSE 0
            END
    )
) PL
WHERE S1.player_id = PL.player_id AND S2.player_id = PL.enemy_id
GROUP BY PL.champion_name, PL.enemy_champ_name
HAVING COUNT(*) > 100
ORDER BY SUM(CASE
                    WHEN S1.win = 1 THEN 1
                    WHEN S1.win = 0 THEN 0
                    END) / COUNT(S1.win) DESC
LIMIT 5;
```

Query result:

champion_name	win_ratio	self_kda	self_avg_gold	enemy_champ_name	enemy_kda	enemy_avg_gold	battle_record
Karthus	0.5693	3.29208346	12300.2993	Renekton	2.18649302	11918.0511	137
Fiddlesticks	0.5690	3.35047286	10848.6465	Renekton	2.74150964	11824.2121	297
Ivern	0.5667	5.55251289	10095.7881	Renekton	2.65322662	11586.7952	420
Teemo	0.5556	2.64719751	12100.0920	Renekton	2.46523929	11821.7240	576
KogMaw	0.5534	2.97679645	12185.1529	Renekton	2.56089202	11668.3689	412

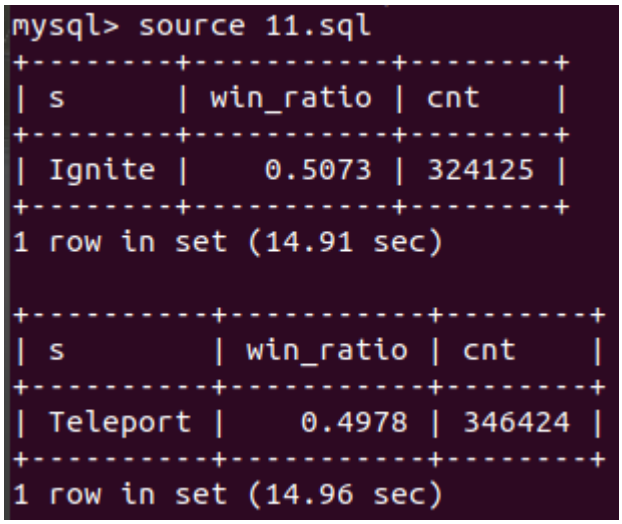
5 rows in set, 7577 warnings (20.87 sec)

11. SQL Screenshot:

```
SELECT (CASE
            WHEN P.ss1 = 'Flash' THEN P.ss2
            WHEN P.ss2 = 'Flash' THEN P.ss1
            END) AS s,
    SUM(CASE
        WHEN S.win = 1 THEN 1
        WHEN S.win = 0 THEN 0
        END) / COUNT(S.win) AS win_ratio, COUNT(*) AS cnt
FROM stat S, participant P
WHERE ((P.ss1 = 'Flash' and P.ss2 = 'Ignite') OR (P.ss2 = 'Flash' and P.ss1 = 'Ignite')) AND S.player_id = P.player_id
GROUP BY (CASE
            WHEN P.ss1 = 'Flash' THEN P.ss2
            WHEN P.ss2 = 'Flash' THEN P.ss1
            END);

SELECT (CASE
            WHEN P.ss1 = 'Flash' THEN P.ss2
            WHEN P.ss2 = 'Flash' THEN P.ss1
            END) AS s,
    SUM(CASE
        WHEN S.win = 1 THEN 1
        WHEN S.win = 0 THEN 0
        END) / COUNT(S.win) AS win_ratio, COUNT(*) AS cnt
FROM stat S, participant P
WHERE ((P.ss1 = 'Flash' and P.ss2 = 'Teleport') OR (P.ss2 = 'Flash' and P.ss1 = 'Teleport')) AND S.player_id = P.player_id
GROUP BY (CASE
            WHEN P.ss1 = 'Flash' THEN P.ss2
            WHEN P.ss2 = 'Flash' THEN P.ss1
            END);
```

Query result:



Description:

因為可能是 ss1 是 flash 或者是 ss2 是 flash，所以必須分成兩個討論，把兩個可能 or 起來之後就可以得到兩個不同狀態的表格，可以知道在"flash+ ignite" 的時候結果勝率比較大。

12. Description:

在 stat 裡面有很多的 kills 紀錄，是跟連殺率有關的，所以我整理了連殺率來看哪些角色的連殺技能比較強。

對一個角色而言，連殺的計算方式如下:

$$\text{連殺率} = \frac{\sum_{\text{玩家}}(doublekills \times 2 + triplekills \times 3 + quadrakills \times 4 + pentakills \times 5)}{\sum_{\text{玩家}} kills}$$

SQL Screenshot

```
SELECT C.champion_name, KK.position, KK.fast_kill_rate
FROM champ C,
(
    SELECT SUM(S.doublekills* 2+ S.triplekills* 3+ S.quadrakills* 4+ S.pentakills* 5)/ SUM(S.kills) AS fast_kill_rate, P.position, P.champion_id
    FROM stat S, participant P
    WHERE P.player_id = S.player_id AND S.kills != 0
    GROUP BY P.position, P.champion_id
    ORDER BY SUM(S.doublekills* 2+ S.triplekills* 3+ S.quadrakills* 4+ S.pentakills* 5)/ SUM(S.kills)
) KK
WHERE C.champion_id = KK.champion_id AND KK.fast_kill_rate> 0.4;
```

Query result:

```
mysql> source 12.sql
+---------------+------------+---------------+
| champion_name | position   | fast_kill_rate |
+---------------+------------+---------------+
| Jinx          | DUO_CARRY  |         0.4001 |
| Vayne         | DUO_CARRY  |         0.4043 |
| Graves        | DUO_SUPPORT |         0.4074 |
| Ahri          | SOLO       |         0.4167 |
| Katarina      | JUNGLE     |         0.4180 |
| Vayne         | NONE       |         0.4227 |
| Kassadin      | DUO_SUPPORT |         0.4333 |
| Tryndamere    | DUO_CARRY  |         0.4348 |
| Orianna       | SOLO       |         0.4444 |
| Nidalee       | NONE       |         0.4545 |
| Lissandra     | DUO_CARRY  |         0.4583 |
| Maokai        | DUO_CARRY  |         0.4634 |
| KhaZix        | DUO_CARRY  |         0.4667 |
| Yasuo         | NONE       |         0.4667 |
| Master Yi     | JUNGLE     |         0.4778 |
| Katarina      | SOLO       |         0.5000 |
| Kalista       | NONE       |         0.5000 |
| Master Yi     | SOLO       |         0.5000 |
| Karthus       | SOLO       |         0.5000 |
| Hecarim       | DUO_CARRY  |         0.5000 |
| Master Yi     | MID        |         0.5008 |
| Master Yi     | TOP        |         0.5241 |
| Nidalee       | DUO_CARRY  |         0.5417 |
| Katarina      | DUO_CARRY  |         0.5504 |
| Swain         | SOLO       |         0.6250 |
| Master Yi     | DUO_CARRY  |         0.6291 |
| Evelynn       | SOLO       |         0.6667 |
| Syndra        | NONE       |         0.6667 |
| Tahm Kench    | DUO_CARRY  |         0.6667 |
| Udyr          | DUO        |         0.8333 |
| Renekton      | DUO_CARRY  |         0.9000 |
| Irelia        | SOLO       |         1.2500 |
+---------------+------------+---------------+
32 rows in set (28.40 sec)
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