Ice Hockey Players Database

Group members:
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TABLES USED:

1. ***ice_hockey_action_participants***(id, ice_hockey_action_play_id, person_id, participant_role, point_credit)

2. ***ice_hockey_action_plays***(id, ice_hockey_event_state_id, play_type, score_attempt_type, play_result, comment)

3. ***ice_hockey_offensive_stats***(id, goals_game_winning, goals_game_tying, goals_power_play, goals_short_handed, goals_even_strength, goals_empty_net, goals_overtime, goals_shootout, goals_penalty_shot, assists, points, power_play_amount, power_play_percentage, shots_penalty_shot_taken, shots_penalty_shot_missed, shots_penalty_shot_percentage, giveaways, minutes_power_play, faceoff_wins, faceoff_losses, faceoff_win_percentage, scoring_chances)

4. ***ice_hockey_defensive_stats***(id, shots_power_play_allowed, shots_penalty_shot_allowed, goals_power_play_allowed, goals_penalty_shot_allowed, goals_against_average, saves, save_percentage, penalty_killing_amount, penalty_killing_percentage, shots_blocked, takeaways, shutouts, minutes_penalty_killing, hits, goals_empty_net_allowed, goals_short_handed_allowed, goals_shootout_allowed, shots_shootout_allowed)

5. ***ice_hockey_player_stats***(id, plus_minus)

6. ***ice_hockey_event_states***(id, evnet_id, current_state, sequence_number, period_value, period_time_elapse, period_time_remaining, context)

7. ***stats***(id, stat_repository_type, stat_repository_id, stat_holder_type, stat_holder_id, stat_coverage_type, stat_coverage_id, context)

SETTING DATABASE:

mysql> USE MINI_PROJECT2;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed

CHANGE INDEX TYPE:

1. TO BTREE TYPE:

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_action_plays` DROP INDEX `id`, ADD INDEX `id` (`id`) USING BTREE;
Query OK, 51 rows affected (0.04 sec)
Records: 51 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_action_participants` DROP INDEX `id`, ADD INDEX `id` (`id`) USING BTREE;
Query OK, 138 rows affected (0.02 sec)
Records: 138 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_defensive_stats` DROP PRIMARY KEY, ADD PRIMARY KEY (`id`) USING BTREE;
Query OK, 46 rows affected (0.04 sec)
Records: 46 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_event_states` DROP PRIMARY KEY, ADD PRIMARY KEY (`id`) USING BTREE;
Query OK, 51 rows affected (0.03 sec)
Records: 51 Duplicates: 0 Warnings: 0

```
mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_event_states` DROP INDEX
`FK_ice_hoc_eve_sta_eve_id__eve_id`, ADD INDEX `FK_ice_hoc_eve_sta_eve_id__eve_id`
(`event_id`) USING BTREE;
Query OK, 51 rows affected (0.04 sec)
Records: 51  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_offensive_stats` DROP PRIMARY
KEY, ADD PRIMARY KEY (`id`) USING BTREE;
Query OK, 839 rows affected (0.03 sec)
Records: 839  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_player_stats` DROP PRIMARY KEY,
ADD PRIMARY KEY (`id`) USING BTREE;
Query OK, 817 rows affected (0.04 sec)
Records: 817  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP PRIMARY KEY, ADD PRIMARY
KEY (`id`) USING BTREE;
Query OK, 9398 rows affected (0.13 sec)
Records: 9398  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_1`, ADD INDEX
`IDX_stats_1` (`stat_repository_type`) USING BTREE;
Query OK, 9398 rows affected (0.12 sec)
Records: 9398  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_2`, ADD INDEX
`IDX_stats_2` (`stat_repository_type`) USING BTREE;
Query OK, 9398 rows affected, 1 warning (0.13 sec)
Records: 9398  Duplicates: 0  Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_3`, ADD INDEX
`IDX_stats_3` (`stat_repository_type`) USING BTREE;
Query OK, 9398 rows affected, 1 warning (0.12 sec)
Records: 9398  Duplicates: 0  Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_4`, ADD INDEX
`IDX_stats_4` (`stat_repository_type`) USING BTREE;
Query OK, 9398 rows affected, 1 warning (0.15 sec)
Records: 9398  Duplicates: 0  Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_5`, ADD INDEX
`IDX_stats_5` (`stat_repository_type`) USING BTREE;
Query OK, 9398 rows affected, 1 warning (0.11 sec)
Records: 9398  Duplicates: 0  Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_6`, ADD INDEX
`IDX_stats_6` (`stat_repository_type`) USING BTREE;
Query OK, 9398 rows affected, 1 warning (0.14 sec)
Records: 9398  Duplicates: 0  Warnings: 1
```

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_7`, ADD INDEX `IDX_stats_7` (`stat_repository_type`) USING BTREE;
Query OK, 9398 rows affected, 1 warning (0.14 sec)
Records: 9398 Duplicates: 0 Warnings: 1

2. TO HASH TYPE:
mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_action_plays` DROP INDEX `id`, ADD INDEX `id` (`id`) USING HASH;
Query OK, 51 rows affected (0.02 sec)
Records: 51 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_action_participants` DROP INDEX `id`, ADD INDEX `id` (`id`) USING HASH;
Query OK, 138 rows affected (0.04 sec)
Records: 138 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_defensive_stats` DROP PRIMARY KEY, ADD PRIMARY KEY (`id`) USING HASH;
Query OK, 46 rows affected (0.03 sec)
Records: 46 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_event_states` DROP PRIMARY KEY, ADD PRIMARY KEY (`id`) USING HASH;
Query OK, 51 rows affected (0.03 sec)
Records: 51 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_event_states` DROP INDEX `FK_ice_hoc_eve_sta_eve_id__eve_id`, ADD INDEX `FK_ice_hoc_eve_sta_eve_id__eve_id` (`event_id`) USING HASH;
Query OK, 51 rows affected (0.04 sec)
Records: 51 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_offensive_stats` DROP PRIMARY KEY, ADD PRIMARY KEY (`id`) USING HASH;
Query OK, 839 rows affected (0.04 sec)
Records: 839 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`ice_hockey_player_stats` DROP PRIMARY KEY, ADD PRIMARY KEY (`id`) USING HASH;
Query OK, 817 rows affected (0.04 sec)
Records: 817 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP PRIMARY KEY, ADD PRIMARY KEY (`id`) USING HASH;
Query OK, 9398 rows affected (0.13 sec)
Records: 9398 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_1`, ADD INDEX `IDX_stats_1` (`stat_repository_type`) USING HASH;
Query OK, 9398 rows affected (0.13 sec)
Records: 9398 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_2`, ADD INDEX `IDX_stats_2` (`stat_repository_type`) USING HASH;
Query OK, 9398 rows affected, 1 warning (0.11 sec)
Records: 9398 Duplicates: 0 Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_3`, ADD INDEX `IDX_stats_3` (`stat_repository_type`) USING HASH;
Query OK, 9398 rows affected, 1 warning (0.11 sec)
Records: 9398 Duplicates: 0 Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_4`, ADD INDEX `IDX_stats_4` (`stat_repository_type`) USING HASH;
Query OK, 9398 rows affected, 1 warning (0.12 sec)
Records: 9398 Duplicates: 0 Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_5`, ADD INDEX `IDX_stats_5` (`stat_repository_type`) USING HASH;
Query OK, 9398 rows affected, 1 warning (0.11 sec)
Records: 9398 Duplicates: 0 Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_6`, ADD INDEX `IDX_stats_6` (`stat_repository_type`) USING HASH;
Query OK, 9398 rows affected, 1 warning (0.12 sec)
Records: 9398 Duplicates: 0 Warnings: 1

mysql> ALTER TABLE `MINI_PROJECT2`.`stats` DROP INDEX `IDX_stats_7`, ADD INDEX `IDX_stats_7` (`stat_repository_type`) USING HASH;
Query OK, 9398 rows affected, 1 warning (0.14 sec)
Records: 9398 Duplicates: 0 Warnings: 1

QUERIES:
1.Obtaining id, role, scroing attempt type and remaining time of all people associated with the ice hockey events.
WITH B TREE INDICES:
Query:

✔ Showing rows 0 - 24 (138 total, Query took 0.0011 seconds.)

```
SELECT ice_hockey_action_participants.person_id, ice_hockey_action_participants.participant_role, ice_hockey_action_plays.score_attempt_type,
ice_hockey_event_states.period_time_remaining FROM ice_hockey_event_states JOIN ice_hockey_action_plays ON ice_hockey_event_states.id =
ice_hockey_action_plays.ice_hockey_event_state_id JOIN ice_hockey_action_participants ON ice_hockey_action_plays.id =
ice_hockey_action_participants.ice_hockey_action_play_id
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Query Plan:

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	ice_hockey_action_plays	NULL	ALL	id	NULL	NULL		NULL 51	100.00	NULL
1	SIMPLE	ice_hockey_event_states	NULL	eq_ref	PRIMARY	PRIMARY	4	MINI_PROJECT2.ice_hockey_action_plays.ice_hockey_e...	1	100.00	NULL
1	SIMPLE	ice_hockey_action_participants	NULL	ALL	NULL	NULL	NULL		NULL 138	10.00	Using where; Using join buffer (Block Nested Loop)

Terminal:

```
mysql> SELECT ice_hockey_action_participants.person_id,
ice_hockey_action_participants.participant_role, ice_hockey_action_plays.score_attempt_type,
ice_hockey_event_states.period_time_remaining FROM ice_hockey_event_states JOIN
ice_hockey_action_plays ON ice_hockey_event_states.id =
ice_hockey_action_plays.ice_hockey_event_state_id JOIN ice_hockey_action_participants ON
ice_hockey_action_plays.id = ice_hockey_action_participants.ice_hockey_action_play_id;
+-----------+------------------+-------------------+----------------------+
| person_id | participant_role | score_attempt_type | period_time_remaining |
+-----------+------------------+-------------------+----------------------+
|      1817 | goal             | power-play        | 7:54                 |
|      1818 | assist           | power-play        | 7:54                 |
|      1819 | assist           | power-play        | 7:54                 |
|      1820 | goal             | regular           | 18:12                |
|      1821 | assist           | regular           | 18:12                |
|      1822 | assist           | regular           | 18:12                |
|      1823 | goal             | regular           | 11:40                |
|      1824 | assist           | regular           | 11:40                |
|      1825 | goal             | regular           | 14:30                |
|      1826 | assist           | regular           | 14:30                |
|      1827 | assist           | regular           | 14:30                |
|      1828 | goal             | regular           | 2:41                 |
|      1829 | assist           | regular           | 2:41                 |
|      1830 | assist           | regular           | 2:41                 |
|      1862 | goal             | power-play        | 8:47                 |
|      1863 | assist           | power-play        | 8:47                 |
|      1864 | assist           | power-play        | 8:47                 |
|      1865 | goal             | regular           | 15:02                |
|      1866 | assist           | regular           | 15:02                |
|      1867 | assist           | regular           | 15:02                |
|      1868 | goal             | regular           | 11:06                |
|      1869 | assist           | regular           | 11:06                |
|      1870 | assist           | regular           | 11:06                |
|      1871 | goal             | regular           | 17:31                |
|      1872 | assist           | regular           | 17:31                |
|      1873 | assist           | regular           | 17:31                |
|      1874 | goal             | power-play        | 6:41                 |
|      1875 | assist           | power-play        | 6:41                 |
|      1876 | assist           | power-play        | 6:41                 |
|      1877 | goal             | power-play        | 1:52                 |
|      1878 | assist           | power-play        | 1:52                 |
|      1879 | assist           | power-play        | 1:52                 |
|      1880 | goal             | empty-net         | 0:25                 |
|      1924 | goal             | power-play        | 17:39                |
```

1925	assist	power-play	17:39	
1926	assist	power-play	17:39	
1927	goal	regular	14:32	
1928	assist	regular	14:32	
1929	goal	regular	9:22	
1930	assist	regular	9:22	
1931	assist	regular	9:22	
1932	goal	regular	6:23	
1933	assist	regular	6:23	
2197	assist	regular	9:40	
2196	assist	regular	9:40	
2195	goal	regular	9:40	
2199	assist	short-handed	8:06	
2198	goal	short-handed	8:06	
2202	assist	power-play	4:06	
2201	assist	power-play	4:06	
2200	goal	power-play	4:06	
2205	assist	regular	18:44	
2204	assist	regular	18:44	
2203	goal	regular	18:44	
2208	assist	power-play	14:54	
2207	assist	power-play	14:54	
2206	goal	power-play	14:54	
2211	assist	power-play	6:35	
2210	assist	power-play	6:35	
2209	goal	power-play	6:35	
2214	assist	regular	0:10	
2213	assist	regular	0:10	
2212	goal	regular	0:10	
1972	goal	power-play	18:42	
1973	assist	power-play	18:42	
1974	assist	power-play	18:42	
1975	goal	regular	3:14	
1976	assist	regular	3:14	
1977	assist	regular	3:14	
1978	goal	power-play	17:27	
1979	assist	power-play	17:27	
1980	assist	power-play	17:27	
1981	goal	regular	13:56	
1982	assist	regular	13:56	
1983	assist	regular	13:56	
1984	goal	power-play	1:34	
1985	assist	power-play	1:34	
2169	assist	regular	15:25	
2168	assist	regular	15:25	
2167	goal	regular	15:25	
2172	assist	regular	4:16	
2171	assist	regular	4:16	
2170	goal	regular	4:16	
2174	assist	short-handed	12:19	
2173	goal	short-handed	12:19	
2177	assist	regular	5:20	

2176	assist	regular	5:20	
2175	goal	regular	5:20	
2179	assist	short-handed	2:21	
2178	goal	short-handed	2:21	
2137	goal	regular	13:59	
2134	assist	regular	13:59	
2138	assist	regular	13:59	
2139	goal	regular	13:26	
2140	assist	regular	13:26	
2141	assist	regular	13:26	
3548	goal	regular	4:19	
3549	assist	regular	4:19	
3550	assist	regular	4:19	
3551	goal	regular	1:51	
3552	assist	regular	1:51	
3553	assist	regular	1:51	
3554	goal	regular	7:24	
3555	assist	regular	7:24	
3556	assist	regular	7:24	
3746	goal	regular	18:37	
3747	assist	regular	18:37	
3748	assist	regular	18:37	
3749	goal	power-play	16:39	
3750	assist	power-play	16:39	
3751	assist	power-play	16:39	
3752	goal	regular	10:17	
3753	assist	regular	10:17	
3754	assist	regular	10:17	
3755	goal	regular	1:39	
3756	assist	regular	1:39	
3757	assist	regular	1:39	
3758	goal	regular	10:37	
3759	assist	regular	10:37	
3760	goal	regular	15:40	
3761	goal	power-play	0:47	
3776	goal	regular	15:47	
3779	assist	regular	15:47	
3780	assist	regular	15:47	
3774	goal	short-handed	15:59	
3781	assist	short-handed	15:59	
3782	assist	short-handed	15:59	
3925	goal	regular	7:31	
3926	assist	regular	7:31	
3927	assist	regular	7:31	
3928	goal	regular	11:57	
3929	assist	regular	11:57	
3930	assist	regular	11:57	
3937	assist	power-play	4:08	
3936	goal	power-play	4:08	
3933	goal	power-play	18:27	
3934	assist	power-play	18:27	
3935	assist	power-play	18:27	

```
+-----------+-----------------+-------------------+---------------------+
```
138 rows in set (0.01 sec)

mysql> SHOW STATUS LIKE "last_query_cost";
```
+-----------------+-------------+
| Variable_name   | Value       |
+-----------------+-------------+
| Last_query_cost | 1485.472635 |
+-----------------+-------------+
```
1 row in set (0.00 sec)

WITH HASH INDICES:
Query:

✔ Showing rows 0 - 24 (138 total, Query took 0.0007 seconds.)

```sql
SELECT ice_hockey_action_participants.person_id, ice_hockey_action_participants.participant_role, ice_hockey_action_plays.score_attempt_type,
ice_hockey_event_states.period_time_remaining FROM ice_hockey_event_states JOIN ice_hockey_action_plays ON ice_hockey_event_states.id =
ice_hockey_action_plays.ice_hockey_event_state_id JOIN ice_hockey_action_participants ON ice_hockey_action_plays.id =
ice_hockey_action_participants.ice_hockey_action_play_id
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	ice_hockey_action_plays	NULL	ALL	id	NULL	NULL		NULL	51	100.00	NULL
1	SIMPLE	ice_hockey_event_states	NULL	eq_ref	PRIMARY	PRIMARY	4	MINI_PROJECT2.ice_hockey_action_plays.ice_hockey_e...	1	100.00	NULL
1	SIMPLE	ice_hockey_action_participants	NULL	ALL	NULL	NULL	NULL		NULL	138	10.00	Using where; Using join buffer (Block Nested Loop)

```
|      1821 | assist        | regular       | 18:12        |
|      1822 | assist        | regular       | 18:12        |
|      1823 | goal          | regular       | 11:40        |
|      1824 | assist        | regular       | 11:40        |
|      1825 | goal          | regular       | 14:30        |
|      1826 | assist        | regular       | 14:30        |
|      1827 | assist        | regular       | 14:30        |
|      1828 | goal          | regular       | 2:41         |
|      1829 | assist        | regular       | 2:41         |
|      1830 | assist        | regular       | 2:41         |
|      1862 | goal          | power-play    | 8:47         |
|      1863 | assist        | power-play    | 8:47         |
|      1864 | assist        | power-play    | 8:47         |
|      1865 | goal          | regular       | 15:02        |
|      1866 | assist        | regular       | 15:02        |
|      1867 | assist        | regular       | 15:02        |
|      1868 | goal          | regular       | 11:06        |
```

1869	assist	regular	11:06
1870	assist	regular	11:06
1871	goal	regular	17:31
1872	assist	regular	17:31
1873	assist	regular	17:31
1874	goal	power-play	6:41
1875	assist	power-play	6:41
1876	assist	power-play	6:41
1877	goal	power-play	1:52
1878	assist	power-play	1:52
1879	assist	power-play	1:52
1880	goal	empty-net	0:25
1924	goal	power-play	17:39
1925	assist	power-play	17:39
1926	assist	power-play	17:39
1927	goal	regular	14:32
1928	assist	regular	14:32
1929	goal	regular	9:22
1930	assist	regular	9:22
1931	assist	regular	9:22
1932	goal	regular	6:23
1933	assist	regular	6:23
2197	assist	regular	9:40
2196	assist	regular	9:40
2195	goal	regular	9:40
2199	assist	short-handed	8:06
2198	goal	short-handed	8:06
2202	assist	power-play	4:06
2201	assist	power-play	4:06
2200	goal	power-play	4:06
2205	assist	regular	18:44
2204	assist	regular	18:44
2203	goal	regular	18:44
2208	assist	power-play	14:54
2207	assist	power-play	14:54
2206	goal	power-play	14:54
2211	assist	power-play	6:35
2210	assist	power-play	6:35
2209	goal	power-play	6:35
2214	assist	regular	0:10
2213	assist	regular	0:10
2212	goal	regular	0:10
1972	goal	power-play	18:42
1973	assist	power-play	18:42
1974	assist	power-play	18:42
1975	goal	regular	3:14
1976	assist	regular	3:14
1977	assist	regular	3:14
1978	goal	power-play	17:27
1979	assist	power-play	17:27
1980	assist	power-play	17:27
1981	goal	regular	13:56

1982	assist	regular	13:56
1983	assist	regular	13:56
1984	goal	power-play	1:34
1985	assist	power-play	1:34
2169	assist	regular	15:25
2168	assist	regular	15:25
2167	goal	regular	15:25
2172	assist	regular	4:16
2171	assist	regular	4:16
2170	goal	regular	4:16
2174	assist	short-handed	12:19
2173	goal	short-handed	12:19
2177	assist	regular	5:20
2176	assist	regular	5:20
2175	goal	regular	5:20
2179	assist	short-handed	2:21
2178	goal	short-handed	2:21
2137	goal	regular	13:59
2134	assist	regular	13:59
2138	assist	regular	13:59
2139	goal	regular	13:26
2140	assist	regular	13:26
2141	assist	regular	13:26
3548	goal	regular	4:19
3549	assist	regular	4:19
3550	assist	regular	4:19
3551	goal	regular	1:51
3552	assist	regular	1:51
3553	assist	regular	1:51
3554	goal	regular	7:24
3555	assist	regular	7:24
3556	assist	regular	7:24
3746	goal	regular	18:37
3747	assist	regular	18:37
3748	assist	regular	18:37
3749	goal	power-play	16:39
3750	assist	power-play	16:39
3751	assist	power-play	16:39
3752	goal	regular	10:17
3753	assist	regular	10:17
3754	assist	regular	10:17
3755	goal	regular	1:39
3756	assist	regular	1:39
3757	assist	regular	1:39
3758	goal	regular	10:37
3759	assist	regular	10:37
3760	goal	regular	15:40
3761	goal	power-play	0:47
3776	goal	regular	15:47
3779	assist	regular	15:47
3780	assist	regular	15:47
3774	goal	short-handed	15:59

```
|      3781 | assist          | short-handed      | 15:59              |
|      3782 | assist          | short-handed      | 15:59              |
|      3925 | goal            | regular           | 7:31               |
|      3926 | assist          | regular           | 7:31               |
|      3927 | assist          | regular           | 7:31               |
|      3928 | goal            | regular           | 11:57              |
|      3929 | assist          | regular           | 11:57              |
|      3930 | assist          | regular           | 11:57              |
|      3937 | assist          | power-play        | 4:08               |
|      3936 | goal            | power-play        | 4:08               |
|      3933 | goal            | power-play        | 18:27              |
|      3934 | assist          | power-play        | 18:27              |
|      3935 | assist          | power-play        | 18:27              |
+-----------+-----------------+-------------------+--------------------+
138 rows in set (0.01 sec)

mysql> SHOW STATUS LIKE "last_query_cost";
+-----------------+-------------+
| Variable_name   | Value       |
+-----------------+-------------+
| Last_query_cost | 1485.472635 |
+-----------------+-------------+
1 row in set (0.00 sec)
```

DROPPING ALL INDICES:
Query:

✅ Showing rows 0 - 24 (138 total, Query took 0.0224 seconds.)

```
SELECT ice_hockey_action_participants.person_id, ice_hockey_action_participants.participant_role, ice_hockey_action_plays.score_attempt_type, ice_hockey_event_states.period_time_remaining FROM
ice_hockey_event_states JOIN ice_hockey_action_plays ON ice_hockey_event_states.id = ice_hockey_action_plays.ice_hockey_event_state_id JOIN ice_hockey_action_participants ON ice_hockey_action_plays.id =
ice_hockey_action_participants.ice_hockey_action_play_id
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Query Plan:

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	ice_hockey_action_plays	NULL	ALL	id	NULL	NULL		NULL	51	100.00	NULL
1	SIMPLE	ice_hockey_event_states	NULL	eq_ref	PRIMARY	PRIMARY	4	TEST.ice_hockey_action_plays.ice_hockey_event_stat...	1	100.00	NULL
1	SIMPLE	ice_hockey_action_participants	NULL	ALL	NULL	NULL	NULL		NULL	138	10.00	Using where; Using join buffer (Block Nested Loop)

Terminal:
```
mysql> SELECT ice_hockey_action_participants.person_id,
ice_hockey_action_participants.participant_role, ice_hockey_action_plays.score_attempt_type,
```

ice_hockey_event_states.period_time_remaining FROM ice_hockey_event_states JOIN ice_hockey_action_plays ON ice_hockey_event_states.id = ice_hockey_action_plays.ice_hockey_event_state_id JOIN ice_hockey_action_participants ON ice_hockey_action_plays.id = ice_hockey_action_participants.ice_hockey_action_play_id;

person_id	participant_role	score_attempt_type	period_time_remaining
1817	goal	power-play	7:54
1818	assist	power-play	7:54
1819	assist	power-play	7:54
1820	goal	regular	18:12
1821	assist	regular	18:12
1822	assist	regular	18:12
1823	goal	regular	11:40
1824	assist	regular	11:40
1825	goal	regular	14:30
1826	assist	regular	14:30
1827	assist	regular	14:30
1828	goal	regular	2:41
1829	assist	regular	2:41
1830	assist	regular	2:41
1862	goal	power-play	8:47
1863	assist	power-play	8:47
1864	assist	power-play	8:47
1865	goal	regular	15:02
1866	assist	regular	15:02
1867	assist	regular	15:02
1868	goal	regular	11:06
1869	assist	regular	11:06
1870	assist	regular	11:06
1871	goal	regular	17:31
1872	assist	regular	17:31
1873	assist	regular	17:31
1874	goal	power-play	6:41
1875	assist	power-play	6:41
1876	assist	power-play	6:41
1877	goal	power-play	1:52
1878	assist	power-play	1:52
1879	assist	power-play	1:52
1880	goal	empty-net	0:25
1924	goal	power-play	17:39
1925	assist	power-play	17:39
1926	assist	power-play	17:39
1927	goal	regular	14:32
1928	assist	regular	14:32
1929	goal	regular	9:22
1930	assist	regular	9:22
1931	assist	regular	9:22
1932	goal	regular	6:23
1933	assist	regular	6:23
2197	assist	regular	9:40
2196	assist	regular	9:40

2195	goal	regular	9:40
2199	assist	short-handed	8:06
2198	goal	short-handed	8:06
2202	assist	power-play	4:06
2201	assist	power-play	4:06
2200	goal	power-play	4:06
2205	assist	regular	18:44
2204	assist	regular	18:44
2203	goal	regular	18:44
2208	assist	power-play	14:54
2207	assist	power-play	14:54
2206	goal	power-play	14:54
2211	assist	power-play	6:35
2210	assist	power-play	6:35
2209	goal	power-play	6:35
2214	assist	regular	0:10
2213	assist	regular	0:10
2212	goal	regular	0:10
1972	goal	power-play	18:42
1973	assist	power-play	18:42
1974	assist	power-play	18:42
1975	goal	regular	3:14
1976	assist	regular	3:14
1977	assist	regular	3:14
1978	goal	power-play	17:27
1979	assist	power-play	17:27
1980	assist	power-play	17:27
1981	goal	regular	13:56
1982	assist	regular	13:56
1983	assist	regular	13:56
1984	goal	power-play	1:34
1985	assist	power-play	1:34
2169	assist	regular	15:25
2168	assist	regular	15:25
2167	goal	regular	15:25
2172	assist	regular	4:16
2171	assist	regular	4:16
2170	goal	regular	4:16
2174	assist	short-handed	12:19
2173	goal	short-handed	12:19
2177	assist	regular	5:20
2176	assist	regular	5:20
2175	goal	regular	5:20
2179	assist	short-handed	2:21
2178	goal	short-handed	2:21
2137	goal	regular	13:59
2134	assist	regular	13:59
2138	assist	regular	13:59
2139	goal	regular	13:26
2140	assist	regular	13:26
2141	assist	regular	13:26
3548	goal	regular	4:19

```
|    3549 | assist        | regular         | 4:19          |
|    3550 | assist        | regular         | 4:19          |
|    3551 | goal          | regular         | 1:51          |
|    3552 | assist        | regular         | 1:51          |
|    3553 | assist        | regular         | 1:51          |
|    3554 | goal          | regular         | 7:24          |
|    3555 | assist        | regular         | 7:24          |
|    3556 | assist        | regular         | 7:24          |
|    3746 | goal          | regular         | 18:37         |
|    3747 | assist        | regular         | 18:37         |
|    3748 | assist        | regular         | 18:37         |
|    3749 | goal          | power-play      | 16:39         |
|    3750 | assist        | power-play      | 16:39         |
|    3751 | assist        | power-play      | 16:39         |
|    3752 | goal          | regular         | 10:17         |
|    3753 | assist        | regular         | 10:17         |
|    3754 | assist        | regular         | 10:17         |
|    3755 | goal          | regular         | 1:39          |
|    3756 | assist        | regular         | 1:39          |
|    3757 | assist        | regular         | 1:39          |
|    3758 | goal          | regular         | 10:37         |
|    3759 | assist        | regular         | 10:37         |
|    3760 | goal          | regular         | 15:40         |
|    3761 | goal          | power-play      | 0:47          |
|    3776 | goal          | regular         | 15:47         |
|    3779 | assist        | regular         | 15:47         |
|    3780 | assist        | regular         | 15:47         |
|    3774 | goal          | short-handed    | 15:59         |
|    3781 | assist        | short-handed    | 15:59         |
|    3782 | assist        | short-handed    | 15:59         |
|    3925 | goal          | regular         | 7:31          |
|    3926 | assist        | regular         | 7:31          |
|    3927 | assist        | regular         | 7:31          |
|    3928 | goal          | regular         | 11:57         |
|    3929 | assist        | regular         | 11:57         |
|    3930 | assist        | regular         | 11:57         |
|    3937 | assist        | power-play      | 4:08          |
|    3936 | goal          | power-play      | 4:08          |
|    3933 | goal          | power-play      | 18:27         |
|    3934 | assist        | power-play      | 18:27         |
|    3935 | assist        | power-play      | 18:27         |
+-----------+------------------+--------------------+-----------------------+
138 rows in set (0.04 sec)

mysql> SHOW STATUS LIKE "last_query_cost";
+-----------------+-------------+
| Variable_name   | Value       |
+-----------------+-------------+
| Last_query_cost | 1485.472635 |
+-----------------+-------------+
1 row in set (0.01 sec)
```

2.Obtaining offensive statistics of all people related to ice_hockey.
WITH B TREE INDICES:
Query:

SELECT person_id, ice_hockey_offensive_stats.id, stat_repository_type, goals_game_winning FROM stats INNER JOIN ice_hockey_offensive_stats ON stat_repository_id = ice_hockey_offensive_stats.id INNER JOIN ice_hockey_action_participants ON person_id = stat_holder_id WHERE stat_repository_type = "ice_hockey_offensive_stats" AND stats.stat_holder_type = "persons"

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Query Plan:

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	stats	NULL	ref	IDX_stats_1,IDX_stats_2,IDX_stats_3,IDX_stats_4,ID...	IDX_stats_1	103	const	798	10.00	Using where
1	SIMPLE	ice_hockey_offensive_stats	NULL	eq_ref	PRIMARY	PRIMARY	4	MINI_PROJECT2.stats.stat_repository_id	1	100.00	NULL
1	SIMPLE	ice_hockey_action_participants	NULL	ALL	NULL	NULL	NULL	NULL	138	10.00	Using where; Using join buffer (Block Nested Loop)

Terminal:
mysql> SELECT person_id, ice_hockey_offensive_stats.id, stat_repository_type,
goals_game_winning FROM stats INNER JOIN ice_hockey_offensive_stats ON stat_repository_id
= ice_hockey_offensive_stats.id INNER JOIN ice_hockey_action_participants ON person_id =
stat_holder_id WHERE stat_repository_type = "ice_hockey_offensive_stats" AND
stats.stat_holder_type = "persons";

```
+-----------+------+---------------------------+--------------------+
| person_id | id   | stat_repository_type      | goals_game_winning |
+-----------+------+---------------------------+--------------------+
|      1817 |    4 | ice_hockey_offensive_stats | 0                 |
|      1818 |    7 | ice_hockey_offensive_stats | 0                 |
|      1819 |    8 | ice_hockey_offensive_stats | 0                 |
|      1821 |    3 | ice_hockey_offensive_stats | 0                 |
|      1822 |    5 | ice_hockey_offensive_stats | 0                 |
|      1823 |   28 | ice_hockey_offensive_stats | 0                 |
|      1823 |   48 | ice_hockey_offensive_stats | 0                 |
|      1824 |   25 | ice_hockey_offensive_stats | 0                 |
|      1824 |   50 | ice_hockey_offensive_stats | 0                 |
|      1825 |   22 | ice_hockey_offensive_stats | 1                 |
|      1825 |   45 | ice_hockey_offensive_stats | 1                 |
|      1826 |   24 | ice_hockey_offensive_stats | 0                 |
|      1826 |   47 | ice_hockey_offensive_stats | 0                 |
|      1827 |   26 | ice_hockey_offensive_stats | 0                 |
|      1827 |   55 | ice_hockey_offensive_stats | 0                 |
|      1829 |   27 | ice_hockey_offensive_stats | 0                 |
|      1829 |   49 | ice_hockey_offensive_stats | 0                 |
|      1830 |   23 | ice_hockey_offensive_stats | 0                 |
|      1830 |   53 | ice_hockey_offensive_stats | 0                 |
|      1863 |   70 | ice_hockey_offensive_stats | 0                 |
```

1863	108	ice_hockey_offensive_stats	0	
1864	72	ice_hockey_offensive_stats	0	
1864	109	ice_hockey_offensive_stats	0	
1865	69	ice_hockey_offensive_stats	0	
1865	107	ice_hockey_offensive_stats	0	
1868	73	ice_hockey_offensive_stats	1	
1868	120	ice_hockey_offensive_stats	1	
1871	89	ice_hockey_offensive_stats	0	
1871	136	ice_hockey_offensive_stats	0	
1872	88	ice_hockey_offensive_stats	0	
1872	142	ice_hockey_offensive_stats	0	
1873	90	ice_hockey_offensive_stats	0	
1873	140	ice_hockey_offensive_stats	0	
1879	91	ice_hockey_offensive_stats	0	
1879	135	ice_hockey_offensive_stats	0	
1975	313	ice_hockey_offensive_stats	0	
1975	701	ice_hockey_offensive_stats	0	
1976	314	ice_hockey_offensive_stats	0	
1976	696	ice_hockey_offensive_stats	0	
1977	312	ice_hockey_offensive_stats	0	
1977	697	ice_hockey_offensive_stats	0	
1978	316	ice_hockey_offensive_stats	0	
1978	690	ice_hockey_offensive_stats	0	
1979	315	ice_hockey_offensive_stats	0	
1979	691	ice_hockey_offensive_stats	1	
2137	530	ice_hockey_offensive_stats	0	
2134	531	ice_hockey_offensive_stats	0	
2138	529	ice_hockey_offensive_stats	0	
2139	510	ice_hockey_offensive_stats	0	
2140	512	ice_hockey_offensive_stats	0	
2141	511	ice_hockey_offensive_stats	0	
3548	823	ice_hockey_offensive_stats	1	
3548	849	ice_hockey_offensive_stats	1	
3549	824	ice_hockey_offensive_stats	0	
3549	858	ice_hockey_offensive_stats	0	
3550	829	ice_hockey_offensive_stats	0	
3550	847	ice_hockey_offensive_stats	1	
3551	828	ice_hockey_offensive_stats	0	
3551	842	ice_hockey_offensive_stats	2	
3552	826	ice_hockey_offensive_stats	0	
3552	844	ice_hockey_offensive_stats	0	
3554	827	ice_hockey_offensive_stats	0	
3554	845	ice_hockey_offensive_stats	0	
3556	825	ice_hockey_offensive_stats	0	
3556	857	ice_hockey_offensive_stats	0	
3746	895	ice_hockey_offensive_stats	0	
3746	931	ice_hockey_offensive_stats	1	
3747	893	ice_hockey_offensive_stats	0	
3747	934	ice_hockey_offensive_stats	0	
3748	896	ice_hockey_offensive_stats	0	
3748	935	ice_hockey_offensive_stats	0	
3750	900	ice_hockey_offensive_stats	0	

```
|      3750 |  941 | ice_hockey_offensive_stats | 0        |
|      3751 |  899 | ice_hockey_offensive_stats | 0        |
|      3751 |  939 | ice_hockey_offensive_stats | 0        |
|      3755 |  894 | ice_hockey_offensive_stats | 1        |
|      3755 |  933 | ice_hockey_offensive_stats | 1        |
|      3756 |  897 | ice_hockey_offensive_stats | 0        |
|      3756 |  936 | ice_hockey_offensive_stats | 1        |
|      3757 |  892 | ice_hockey_offensive_stats | 0        |
|      3757 |  932 | ice_hockey_offensive_stats | 2        |
|      3760 |  898 | ice_hockey_offensive_stats | 0        |
|      3760 |  940 | ice_hockey_offensive_stats | 0        |
|      3776 | 1006 | ice_hockey_offensive_stats | 0        |
|      3776 | 1052 | ice_hockey_offensive_stats | 1        |
|      3780 | 1007 | ice_hockey_offensive_stats | 0        |
|      3780 | 1050 | ice_hockey_offensive_stats | 2        |
|      3774 |  987 | ice_hockey_offensive_stats | 0        |
|      3774 | 1029 | ice_hockey_offensive_stats | 1        |
|      3781 |  988 | ice_hockey_offensive_stats | 0        |
|      3781 | 1032 | ice_hockey_offensive_stats | 0        |
|      3782 |  989 | ice_hockey_offensive_stats | 0        |
|      3782 | 1038 | ice_hockey_offensive_stats | 0        |
+-----------+------+----------------------------+------------------+
93 rows in set (0.04 sec)

mysql> SHOW STATUS LIKE "last_query_cost";
+-----------------+-------------+
| Variable_name   | Value       |
+-----------------+-------------+
| Last_query_cost | 2992.068216 |
+-----------------+-------------+
1 row in set (0.00 sec)
```

WITH HASH INDICES:

Query:

✓ Showing rows 0 - 24 (93 total, Query took 0.0074 seconds.)

```
SELECT person_id, ice_hockey_offensive_stats.id, stat_repository_type, goals_game_winning FROM stats INNER JOIN ice_hockey_offensive_stats ON
stat_repository_id = ice_hockey_offensive_stats.id INNER JOIN ice_hockey_action_participants ON person_id = stat_holder_id WHERE stat_repository_type =
"ice_hockey_offensive_stats" AND stats.stat_holder_type = "persons"
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Query Plan:

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	stats	NULL	ref	IDX_stats_1,IDX_stats_2,IDX_stats_3,IDX_stats_4,ID...	IDX_stats_1	103	const	798	10.00	Using where
1	SIMPLE	ice_hockey_offensive_stats	NULL	eq_ref	PRIMARY	PRIMARY	4	MINI_PROJECT2.stats.stat_repository_id	1	100.00	NULL
1	SIMPLE	ice_hockey_action_participants	NULL	ALL	NULL	NULL	NULL	NULL	138	10.00	Using where; Using join buffer (Block Nested Loop)

Terminal:
SELECT person_id, ice_hockey_offensive_stats.id, stat_repository_type, goals_game_winning FROM stats INNER JOIN ice_hockey_offensive_stats ON stat_repository_id = ice_hockey_offensive_stats.id INNER JOIN ice_hockey_action_participants ON person_id = stat_holder_id WHERE stat_repository_type = "ice_hockey_offensive_stats" AND stats.stat_holder_type = "persons";

person_id	id	stat_repository_type	goals_game_winning
1817	4	ice_hockey_offensive_stats	0
1818	7	ice_hockey_offensive_stats	0
1819	8	ice_hockey_offensive_stats	0
1821	3	ice_hockey_offensive_stats	0
1822	5	ice_hockey_offensive_stats	0
1823	28	ice_hockey_offensive_stats	0
1823	48	ice_hockey_offensive_stats	0
1824	25	ice_hockey_offensive_stats	0
1824	50	ice_hockey_offensive_stats	0
1825	22	ice_hockey_offensive_stats	1
1825	45	ice_hockey_offensive_stats	1
1826	24	ice_hockey_offensive_stats	0
1826	47	ice_hockey_offensive_stats	0
1827	26	ice_hockey_offensive_stats	0
1827	55	ice_hockey_offensive_stats	0
1829	27	ice_hockey_offensive_stats	0
1829	49	ice_hockey_offensive_stats	0
1830	23	ice_hockey_offensive_stats	0
1830	53	ice_hockey_offensive_stats	0
1863	70	ice_hockey_offensive_stats	0
1863	108	ice_hockey_offensive_stats	0
1864	72	ice_hockey_offensive_stats	0
1864	109	ice_hockey_offensive_stats	0
1865	69	ice_hockey_offensive_stats	0
1865	107	ice_hockey_offensive_stats	0
1868	73	ice_hockey_offensive_stats	1
1868	120	ice_hockey_offensive_stats	1
1871	89	ice_hockey_offensive_stats	0
1871	136	ice_hockey_offensive_stats	0
1872	88	ice_hockey_offensive_stats	0
1872	142	ice_hockey_offensive_stats	0
1873	90	ice_hockey_offensive_stats	0
1873	140	ice_hockey_offensive_stats	0
1879	91	ice_hockey_offensive_stats	0
1879	135	ice_hockey_offensive_stats	0
1975	313	ice_hockey_offensive_stats	0
1975	701	ice_hockey_offensive_stats	0
1976	314	ice_hockey_offensive_stats	0
1976	696	ice_hockey_offensive_stats	0
1977	312	ice_hockey_offensive_stats	0
1977	697	ice_hockey_offensive_stats	0
1978	316	ice_hockey_offensive_stats	0

1978	690	ice_hockey_offensive_stats	0
1979	315	ice_hockey_offensive_stats	0
1979	691	ice_hockey_offensive_stats	1
2137	530	ice_hockey_offensive_stats	0
2134	531	ice_hockey_offensive_stats	0
2138	529	ice_hockey_offensive_stats	0
2139	510	ice_hockey_offensive_stats	0
2140	512	ice_hockey_offensive_stats	0
2141	511	ice_hockey_offensive_stats	0
3548	823	ice_hockey_offensive_stats	1
3548	849	ice_hockey_offensive_stats	1
3549	824	ice_hockey_offensive_stats	0
3549	858	ice_hockey_offensive_stats	0
3550	829	ice_hockey_offensive_stats	0
3550	847	ice_hockey_offensive_stats	1
3551	828	ice_hockey_offensive_stats	0
3551	842	ice_hockey_offensive_stats	2
3552	826	ice_hockey_offensive_stats	0
3552	844	ice_hockey_offensive_stats	0
3554	827	ice_hockey_offensive_stats	0
3554	845	ice_hockey_offensive_stats	0
3556	825	ice_hockey_offensive_stats	0
3556	857	ice_hockey_offensive_stats	0
3746	895	ice_hockey_offensive_stats	0
3746	931	ice_hockey_offensive_stats	1
3747	893	ice_hockey_offensive_stats	0
3747	934	ice_hockey_offensive_stats	0
3748	896	ice_hockey_offensive_stats	0
3748	935	ice_hockey_offensive_stats	0
3750	900	ice_hockey_offensive_stats	0
3750	941	ice_hockey_offensive_stats	0
3751	899	ice_hockey_offensive_stats	0
3751	939	ice_hockey_offensive_stats	0
3755	894	ice_hockey_offensive_stats	1
3755	933	ice_hockey_offensive_stats	1
3756	897	ice_hockey_offensive_stats	0
3756	936	ice_hockey_offensive_stats	1
3757	892	ice_hockey_offensive_stats	0
3757	932	ice_hockey_offensive_stats	2
3760	898	ice_hockey_offensive_stats	0
3760	940	ice_hockey_offensive_stats	0
3776	1006	ice_hockey_offensive_stats	0
3776	1052	ice_hockey_offensive_stats	1
3780	1007	ice_hockey_offensive_stats	0
3780	1050	ice_hockey_offensive_stats	2
3774	987	ice_hockey_offensive_stats	0
3774	1029	ice_hockey_offensive_stats	1
3781	988	ice_hockey_offensive_stats	0
3781	1032	ice_hockey_offensive_stats	0
3782	989	ice_hockey_offensive_stats	0
3782	1038	ice_hockey_offensive_stats	0

93 rows in set (0.02 sec)
mysql> SHOW STATUS LIKE "last_query_cost";
+-----------------+-------------+
| Variable_name | Value |
+-----------------+-------------+
| Last_query_cost | 2992.068216 |
+-----------------+-------------+
1 row in set (0.01 sec)

DROPPING ALL INDICES:
Query:

Showing rows 0 - 24 (93 total, Query took 0.0786 seconds.)

SELECT person_id, ice_hockey_offensive_stats.id, stat_repository_type, goals_game_winning FROM stats INNER JOIN ice_hockey_offensive_stats ON stat_repository_id = ice_hockey_offensive_stats.id INNER JOIN ice_hockey_action_participants ON person_id = stat_holder_id WHERE stat_repository_type = "ice_hockey_offensive_stats" AND stats.stat_holder_type = "persons"

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Query Plan:

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	stats	NULL	ALL	NULL	NULL	NULL		NULL 9398	1.00	Using where
1	SIMPLE	ice_hockey_offensive_stats	NULL	eq_ref	PRIMARY	PRIMARY	4	TEST.stats.stat_repository_id	1	100.00	NULL
1	SIMPLE	ice_hockey_action_participants	NULL	ALL	NULL	NULL	NULL	NULL	138	10.00	Using where; Using join buffer (Block Nested Loop)

Terminal:
mysql> SELECT person_id, ice_hockey_offensive_stats.id, stat_repository_type,
goals_game_winning FROM stats INNER JOIN ice_hockey_offensive_stats ON stat_repository_id
= ice_hockey_offensive_stats.id INNER JOIN ice_hockey_action_participants ON person_id =
stat_holder_id WHERE stat_repository_type = "ice_hockey_offensive_stats" AND
stats.stat_holder_type = "persons";
+-----------+------+--------------------------+--------------------+
| person_id | id | stat_repository_type | goals_game_winning |
+-----------+------+--------------------------+--------------------+
1817	4	ice_hockey_offensive_stats	0
1818	7	ice_hockey_offensive_stats	0
1819	8	ice_hockey_offensive_stats	0
1821	3	ice_hockey_offensive_stats	0
1822	5	ice_hockey_offensive_stats	0
1823	28	ice_hockey_offensive_stats	0
1823	48	ice_hockey_offensive_stats	0
1824	25	ice_hockey_offensive_stats	0
1824	50	ice_hockey_offensive_stats	0
1825	22	ice_hockey_offensive_stats	1
1825	45	ice_hockey_offensive_stats	1
1826	24	ice_hockey_offensive_stats	0
1826	47	ice_hockey_offensive_stats	0
1827	26	ice_hockey_offensive_stats	0

```
|   1827 |    55 | ice_hockey_offensive_stats | 0       |
|   1829 |    27 | ice_hockey_offensive_stats | 0       |
|   1829 |    49 | ice_hockey_offensive_stats | 0       |
|   1830 |    23 | ice_hockey_offensive_stats | 0       |
|   1830 |    53 | ice_hockey_offensive_stats | 0       |
|   1863 |    70 | ice_hockey_offensive_stats | 0       |
|   1863 |   108 | ice_hockey_offensive_stats | 0       |
|   1864 |    72 | ice_hockey_offensive_stats | 0       |
|   1864 |   109 | ice_hockey_offensive_stats | 0       |
|   1865 |    69 | ice_hockey_offensive_stats | 0       |
|   1865 |   107 | ice_hockey_offensive_stats | 0       |
|   1868 |    73 | ice_hockey_offensive_stats | 1       |
|   1868 |   120 | ice_hockey_offensive_stats | 1       |
|   1871 |    89 | ice_hockey_offensive_stats | 0       |
|   1871 |   136 | ice_hockey_offensive_stats | 0       |
|   1872 |    88 | ice_hockey_offensive_stats | 0       |
|   1872 |   142 | ice_hockey_offensive_stats | 0       |
|   1873 |    90 | ice_hockey_offensive_stats | 0       |
|   1873 |   140 | ice_hockey_offensive_stats | 0       |
|   1879 |    91 | ice_hockey_offensive_stats | 0       |
|   1879 |   135 | ice_hockey_offensive_stats | 0       |
|   1975 |   313 | ice_hockey_offensive_stats | 0       |
|   1975 |   701 | ice_hockey_offensive_stats | 0       |
|   1976 |   314 | ice_hockey_offensive_stats | 0       |
|   1976 |   696 | ice_hockey_offensive_stats | 0       |
|   1977 |   312 | ice_hockey_offensive_stats | 0       |
|   1977 |   697 | ice_hockey_offensive_stats | 0       |
|   1978 |   316 | ice_hockey_offensive_stats | 0       |
|   1978 |   690 | ice_hockey_offensive_stats | 0       |
|   1979 |   315 | ice_hockey_offensive_stats | 0       |
|   1979 |   691 | ice_hockey_offensive_stats | 1       |
|   2137 |   530 | ice_hockey_offensive_stats | 0       |
|   2134 |   531 | ice_hockey_offensive_stats | 0       |
|   2138 |   529 | ice_hockey_offensive_stats | 0       |
|   2139 |   510 | ice_hockey_offensive_stats | 0       |
|   2140 |   512 | ice_hockey_offensive_stats | 0       |
|   2141 |   511 | ice_hockey_offensive_stats | 0       |
|   3548 |   823 | ice_hockey_offensive_stats | 1       |
|   3548 |   849 | ice_hockey_offensive_stats | 1       |
|   3549 |   824 | ice_hockey_offensive_stats | 0       |
|   3549 |   858 | ice_hockey_offensive_stats | 0       |
|   3550 |   829 | ice_hockey_offensive_stats | 0       |
|   3550 |   847 | ice_hockey_offensive_stats | 1       |
|   3551 |   828 | ice_hockey_offensive_stats | 0       |
|   3551 |   842 | ice_hockey_offensive_stats | 2       |
|   3552 |   826 | ice_hockey_offensive_stats | 0       |
|   3552 |   844 | ice_hockey_offensive_stats | 0       |
|   3554 |   827 | ice_hockey_offensive_stats | 0       |
|   3554 |   845 | ice_hockey_offensive_stats | 0       |
|   3556 |   825 | ice_hockey_offensive_stats | 0       |
|   3556 |   857 | ice_hockey_offensive_stats | 0       |
|   3746 |   895 | ice_hockey_offensive_stats | 0       |
```

```
|    3746 |  931 | ice_hockey_offensive_stats | 1          |
|    3747 |  893 | ice_hockey_offensive_stats | 0          |
|    3747 |  934 | ice_hockey_offensive_stats | 0          |
|    3748 |  896 | ice_hockey_offensive_stats | 0          |
|    3748 |  935 | ice_hockey_offensive_stats | 0          |
|    3750 |  900 | ice_hockey_offensive_stats | 0          |
|    3750 |  941 | ice_hockey_offensive_stats | 0          |
|    3751 |  899 | ice_hockey_offensive_stats | 0          |
|    3751 |  939 | ice_hockey_offensive_stats | 0          |
|    3755 |  894 | ice_hockey_offensive_stats | 1          |
|    3755 |  933 | ice_hockey_offensive_stats | 1          |
|    3756 |  897 | ice_hockey_offensive_stats | 0          |
|    3756 |  936 | ice_hockey_offensive_stats | 1          |
|    3757 |  892 | ice_hockey_offensive_stats | 0          |
|    3757 |  932 | ice_hockey_offensive_stats | 2          |
|    3760 |  898 | ice_hockey_offensive_stats | 0          |
|    3760 |  940 | ice_hockey_offensive_stats | 0          |
|    3776 | 1006 | ice_hockey_offensive_stats | 0          |
|    3776 | 1052 | ice_hockey_offensive_stats | 1          |
|    3780 | 1007 | ice_hockey_offensive_stats | 0          |
|    3780 | 1050 | ice_hockey_offensive_stats | 2          |
|    3774 |  987 | ice_hockey_offensive_stats | 0          |
|    3774 | 1029 | ice_hockey_offensive_stats | 1          |
|    3781 |  988 | ice_hockey_offensive_stats | 0          |
|    3781 | 1032 | ice_hockey_offensive_stats | 0          |
|    3782 |  989 | ice_hockey_offensive_stats | 0          |
|    3782 | 1038 | ice_hockey_offensive_stats | 0          |
+-----------+------+----------------------------+-------------------+
93 rows in set (0.05 sec)

mysql> SHOW STATUS LIKE "last_query_cost";
+-----------------+-------------+
| Variable_name   | Value       |
+-----------------+-------------+
| Last_query_cost | 4767.342845 |
+-----------------+-------------+
1 row in set (0.00 sec)
```

PROCEDURES:

```
1) CREATE DEFINER=`root`@`localhost`
PROCEDURE `statsinfo`(IN `type` VARCHAR(100), OUT `count_details`
INT ZEROFILL, OUT `max_of_details` INT ZEROFILL) NOT DETERMINISTIC
NO SQL SQL SECURITY DEFINER
BEGIN
SET count_details = (SELECT COUNT(id) as count_details FROM stats
WHERE stats.stat_repository_type = type AND stats.stat_holder_type
= "persons");
SET max_of_details = (SELECT MAX(id) as count_details FROM stats
WHERE stats.stat_repository_type = type AND stats.stat_holder_type
= "persons");
END
```

```
2)CREATE DEFINER=`root`@`localhost` PROCEDURE
`get_score_attempt`(IN `p_id` INT, OUT `score_attempt`
VARCHAR(100)) NOT DETERMINISTIC READS SQL DATA SQL SECURITY
DEFINER
SET score_attempt = (SELECT score_attempt_type FROM
ice_hockey_action_plays INNER JOIN ice_hockey_action_participants
ON ice_hockey_action_participants.ice_hockey_action_play_id =
ice_hockey_action_plays.id WHERE
ice_hockey_action_participants.person_id = p_id)
```