

SQL Tables

Players

480

Select * from players;

481

Select * from games;

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1:480

1 error found

Result Grid

Filter Rows:

Search

Edit:

Export/Import:

	P...	PlayerName	JerseyNumber	PositionID	Height	Weight	Shoots	Birthplace	Birthdate	
	4	Charlie Coyle	13	F1	6' 3"	218	R	Weymouth, MA	1992-03-02	
	5	Trent Frederic	11	F1	6' 3"	220	L	Saint Louis, MO	1998-02-11	
	6	Morgan Geekie	39	F1	6' 3"	202	R	Strathclair, CAN	1998-07-20	
	7	Jakub Lauko	94	F1	6' 1"	193	L	Prague, Czechia	2000-03-28	
	8	Matthew Poitras	51	F1	5' 11"	180	R	Brooklin, CAN	2004-03-10	
	9	Pavel Zacha	18	F1	6' 4"	207	L	Brno, Czechia	1997-04-06	
	10	Jake DeBrusk	74	F2	6' 1"	198	L	Edmonton, CAN	1996-10-17	
	11	Danton Heinen	43	F2	6' 2"	195	L	Langley, CAN	1995-07-05	
	12	Brad Marchand	63	F2	5' 9"	176	L	Halifax, CAN	1988-05-11	
	13	James van Rie...	21	F2	6' 3"	208	L	Middletown, NJ	1989-05-04	
	14	Justin Brazeau	55	F3	6' 5"	220	R	New Liskeard, CAN	1998-02-02	
	15	David Pastrnak	88	F3	6' 0"	196	L	Havirov, Czechia	1996-05-25	
	16	Brandon Carlo	25	D2	6' 5"	217	R	Colorado Springs...	1996-11-26	
	17	Derek Forbort	28	D1	6' 4"	216	L	Duluth, MN	1992-03-04	
	18	Matt Grzelcyk	48	D1	5' 10"	180	L	Charlestown, MA	1994-05-01	
	19	Hampus Lindh...	27	D1	6' 4"	224	L	Helsingborg, Swe...	1994-01-20	
	20	Mason Lohrei	6	D2	6' 4"	210	NULL	Madison, WI	2001-01-17	
	21	Charlie McAvoy	73	D2	6' 1"	209	R	Long Beach, NY	1997-12-21	
	22	Ian Mitchell	14	D2	5' 11"	193	R	St. Albert, CAN	1999-01-18	

Games

Select * from games;

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Result Grid

Filter Rows:

Search

Edit:

Export/Import:

	GameNumber	RosterNumber	Date	Opponent	HomeAway	OpponentScore	BruinsScore	Result	Regulation	
	1	1	Wed Oct 11	Blackhawks	1	1	3	1	Regulation	
	2	2	Sat Oct 14	Predators	1	2	3	1	Regulation	
	3	1	Thu Oct 19	Sharks	0	1	3	1	Regulation	
	4	2	Sat Oct 21	Kings	0	2	4	1	Regulation	
	5	3	Sun Oct 22	Ducks	0	1	3	1	Regulation	
	6	3	Tue Oct 24	Blackhawks	0	0	3	1	Regulation	
	7	3	Thu Oct 26	Ducks	1	4	3	0	Overtime	
	8	3	Sat Oct 28	Red Wings	1	1	4	1	Regulation	
	9	1	Mon Oct 30	Panthers	1	2	3	1	Overtime	
	10	1	Thu Nov 2	Maple Leafs	1	2	3	1	Shootout	
	11	1	Sat Nov 4	Red Wings	0	5	4	0	Regulation	
	12	1	Mon Nov 6	Stars	0	2	3	1	Regulation	
	13	1	Thu Nov 9	Islanders	1	2	5	1	Regulation	
	14	1	Sat Nov 11	Canadiens	0	3	2	0	Overtime	
	15	2	Tue Nov 14	Sabres	0	2	5	1	Regulation	
	16	1	Sat Nov 18	Canadiens	1	2	5	1	Regulation	
	17	2	Mon Nov 20	Lightning	0	5	4	0	Overtime	
	18	2	Wed Nov 22	Panthers	0	1	3	1	Regulation	

SQL Tables

Player stats

Select * from seasonplayerstats;

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Result Grid

Filter Rows: Search

Edit: Export/Import:

	PlayerID	PlayerName	GamesPlayed	Goals	Assists	Points	PlusMinus	PenaltyMin	Shots	ShootingPercenta...	PowerPlayGoals	PowerPlayAssists	ShortHandedGo...	ShortHandedAssi...	GameWinningGoals	Tim
	1	Johnny Beecher	39	5	2	7	-6	15	0	18.50	0	0	0	0	1	10
	2	Jesper Boqvist	26	4	6	10	10	4	0	12.50	0	0	0	0	0	11
	3	Patrick Brown	11	0	1	1	-3	2	0	0.00	0	0	0	0	0	9
	4	Charlie Coyle	61	21	29	50	6	28	2	17.60	5	4	0	3	4	18
	5	Trent Frederic	61	16	19	35	13	50	0	17.20	1	0	0	0	0	14
	6	Morgan Geekie	55	13	17	30	7	20	0	14.00	3	5	0	0	0	15
	7	Jakub Lauko	42	2	6	8	-4	28	0	6.50	0	0	0	0	0	9
	8	Matthew Poitras	33	5	10	15	4	6	0	12.50	0	1	0	0	1	13
	9	Pavel Zacha	57	12	24	36	8	16	0	11.00	3	7	0	0	3	18
	10	Jake DeBrusk	59	13	14	27	11	12	1	9.80	2	5	2	0	2	17
	11	Danton Heinen	53	11	11	22	7	22	0	12.20	1	0	1	0	3	14
	12	Brad Marchand	61	26	27	53	5	62	0	15.80	7	15	2	0	6	19
	13	James van Rie...	57	11	26	37	9	14	0	8.70	6	6	0	0	3	13
	14	Justin Brazeau	5	1	1	2	2	2	0	12.50	0	0	0	0	0	10
	15	David Pastrnak	61	38	49	87	21	45	1	12.70	11	20	0	0	4	20
	16	Brandon Carlo	56	3	10	13	22	34	0	5.20	0	0	0	0	1	20
	17	Derek Forbort	34	0	4	4	8	17	0	0.00	0	0	0	0	0	17
	18	Matt Grzelcyk	46	2	6	8	5	33	0	4.00	0	0	0	0	0	17

Team stats

Select * from teamstats;

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Result Grid

Filter Rows: Search

Export:

	TeamID	TeamName	GamesPlayed	Num_of_Wins	Num_of_Losses	OverTimeLosses	Points	RegulationWins	Regulation_and_Overtime_Wi...	ShootoutWins	ShootoutLoss...	HomeWinPercentage	AwayWinPerce
	3	Coyotes	58	23	30	5	51	18	21	2	0	0.517	0.276
	4	Sabres	59	27	28	4	58	23	26	1	1	0.433	0.483
	5	Flames	59	29	25	5	63	24	29	0	4	0.517	0.467
	6	Hurricanes	59	35	18	6	76	29	34	1	4	0.633	0.552
	7	Blackhawks	59	15	39	5	35	10	14	1	1	0.367	0.138
	8	Avalanche	60	36	19	5	77	32	34	2	1	0.793	0.419
	9	Blue Jackets	57	19	28	10	48	14	17	2	1	0.385	0.321
	10	Stars	61	35	17	9	79	26	33	2	2	0.586	0.563
	11	Red Wings	59	33	20	6	72	23	31	2	0	0.581	0.536
	12	Oilers	56	34	20	2	70	28	32	2	0	0.643	0.571

SQL Tables

Venues

498

Select * from venue;

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Result Grid

Filter Rows:

Search

Edit:

	VenueID	VenueName	Capacity	City	State	Country
3		Mullett Arena	4600	Tempe	Arizona	USA
4		KayBank Center	19070	Buffalo	New York	USA
5		Scotiabank Saddledome	19289	Calgary	Alberta	CAN
6		PNC Arena	18700	Raleigh	North Carolina	USA
7		United Center	19717	Chicago	Illinois	USA
8		Ball Arena	17809	Denver	Colorado	USA
9		Nationwide Arena	18144	Columbus	Ohio	USA
10		America Airlines Center	18532	Dallas	Texas	USA
11		Little Ceasars Arena	19515	Detroit	Michigan	USA
12		Rogers Place	18347	Edmonton	Alberta	CAN
13		Amerant Bank Arena	19250	Sunrise	Florida	USA
14		Crypto.com Arena	18230	Los Ang...	California	USA
15		Xcel Energy Center	17954	Saint Paul	Minnesota	USA
16		Bell Centre	21105	Montreal	Quebec	CAN

Roster

[illegible]



```
DELIMITER $$
CREATE PROCEDURE GetTopPlayers(IN top_n INT)
BEGIN
    SELECT PlayerID, PlayerName, Goals
    FROM players
    ORDER BY Goals DESC
    LIMIT top_n
END $$
DELIMITER ;
```

```
-- Adding a join query for player performance analysis

-- Query to find the performance of players based on their captaincy role
SELECT p.PlayerName, c.CaptainType, ps.Goals, ps.Assists
FROM players p
JOIN captain c ON p.PlayerID = c.PlayerID
JOIN seasonplayerstats ps ON p.PlayerID = ps.PlayerID
WHERE ps.Goals > 10;
```

	PlayerName	CaptainType	Goals	Assists	
	Brad Marchand	Alternate	26	27	
	David Pastrnak	Alternate	38	49	



Queries

```
-- Query 2: Join captain and players table to list captain details with team affiliation
SELECT c.CaptainID, p.PlayerName, c.CaptainType
FROM captain c
JOIN players p ON c.PlayerID = p.PlayerID;
```

```
-- Query 4: Trigger to automatically update team statistics after a game result is updated
DELIMITER //
CREATE TRIGGER UpdateTeamStats AFTER UPDATE ON games
FOR EACH ROW
BEGIN
    IF NEW.Result <> OLD.Result THEN
        UPDATE teams
        SET Wins = Wins + (NEW.Result = 'Win') - (OLD.Result = 'Win'),
            Losses = Losses + (NEW.Result = 'Loss') - (OLD.Result = 'Loss')
        WHERE TeamName = 'Boston Bruins';
    END IF;
END //
DELIMITER ;
```

```
-- Query 3: Stored Procedure to fetch details of games against a specific opponent
DELIMITER //
CREATE PROCEDURE GetGamesByOpponent(IN OpponentName VARCHAR(50))
BEGIN
    SELECT * FROM games WHERE Opponent = OpponentName;
END //
DELIMITER ;
```

	CaptainID	PlayerName	CaptainType	
	1	Brad Marchand	Alternate	
	2	Charlie McAvoy	Alternate	
	3	David Pastrnak	Alternate	



Queries

-- Query 5: Aggregate query to count games played at home vs away

```
SELECT HomeAway, COUNT(*) AS GamesCount
FROM games
GROUP BY HomeAway;
```

	HomeAway	GamesCount	
	1	30	
	0	30	

-- Query 6: Insert a new coach entry

```
INSERT INTO coach (CoachName, Position, Seasons)
VALUES ('Mark Smith', 'Special Teams Coach', 5);
```

-- Query 7: Delete games where Bruins lost by more than 5 points

```
DELETE FROM games
WHERE OpponentScore - BruinsScore > 5 AND Result = 1;
```



Queries

```
-- Query 8: Stored Procedure to list all captains of a specific type
DELIMITER //
CREATE PROCEDURE GetCaptainsByType(IN CaptainTypeName VARCHAR(20))
BEGIN
    SELECT * FROM captain WHERE CaptainType = CaptainTypeName;
END //
DELIMITER ;
```

```
-- Query 9: Trigger to cascade delete players when a team is removed
DELIMITER //
CREATE TRIGGER CascadeDeletePlayers BEFORE DELETE ON teams
FOR EACH ROW
BEGIN
    DELETE FROM players WHERE TeamID = OLD.TeamID;
END //
DELIMITER ;
```

```
-- Query 10: Conditional update to mark games with high scores
UPDATE games
SET Regulation = 'High Scoring'
WHERE BruinsScore > 5 AND OpponentScore > 5;
```




Queries

-- Query 12: Join games and coach table to see coaches in charge during each game

```
SELECT g.GameNumber, g.Date, c.CoachName, c.Position
FROM games g
JOIN coach c ON g.RosterNumber = c.CoachID
WHERE g.Result = 'Win';
```

-- Query 1: Update goals in the captain's table (example of an UPDATE statement)

```
UPDATE captain
SET CaptainType = 'Alternate'
WHERE PlayerName = 'Brad Marchand';
```

-- Query 11: Subquery to fetch the best captain based on performance (hypothetical)

```
SELECT PlayerID, PlayerName, PositionID
FROM Players
WHERE PlayerID=(
    SELECT PlayerID
    FROM captain
    where PlayerID < 13
)
```

	GameNumber	Date	CoachName	Position	
	7	Thu Oct 26	Chris Kelly	Assistant Coach	
	11	Sat Nov 4	Jim Montgomery	Head Coach	
	14	Sat Nov 11	Jim Montgomery	Head Coach	
	17	Mon Nov 20	Joe Sacco	Assistant Coach	
	19	Fri Nov 24	Joe Sacco	Assistant Coach	
	20	Sat Nov 25	Joe Sacco	Assistant Coach	
	21	Mon Nov 27	Joe Sacco	Assistant Coach	
	25	Thu Dec 7	Chris Kelly	Assistant Coach	
	27	Wed Dec 13	Chris Kelly	Assistant Coach	
	29	Sat Dec 16	Jim Montgomery	Head Coach	
	30	Tue Dec 19	Joe Sacco	Assistant Coach	
	31	Fri Dec 22	Chris Kelly	Assistant Coach	
	32	Sat Dec 23	Jim Montgomery	Head Coach	
	37	Thu Jan 4	Joe Sacco	Assistant Coach	
	39	Mon Jan 8	Joe Sacco	Assistant Coach	
	40	Tue Jan 9	Joe Sacco	Assistant Coach	
	41	Thu Jan 11	Joe Sacco	Assistant Coach	
	47	Wed Jan 24	Joe Sacco	Assistant Coach	
	50	Tue Feb 6	Chris Kelly	Assistant Coach	
	52	Sat Feb 10	Joe Sacco	Assistant Coach	
	53	Tue Feb 13	Joe Sacco	Assistant Coach	
	54	Thu Feb 15	Jim Montgomery	Head Coach	
	55	Sat Feb 17	Joe Sacco	Assistant Coach	
	58	Thu Feb 22	Joe Sacco	Assistant Coach	
	59	Sat Feb 24	Jim Montgomery	Head Coach	
	60	Mon Feb 26	Jim Montgomery	Head Coach	

	PlayerID	PlayerName	PositionID	
	12	Brad Marchand	F2	
	NULL	NULL	NULL	