

CSCD 327 Lab 3

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1 Find old rich teams

```
1 SELECT team_name, city FROM teams
2 WHERE founded_year < 1990 AND budget_million > 120;
```

*	team_name	city
1	Eagles	New York
2	Rangers	Dallas

Figure 1: Finding old rich teams

2 Find players on teams 1, 3, 5

```
1 SELECT playerID, first_name, last_name
2 FROM players
3 WHERE teamID IN (1, 3, 5)
4 ORDER BY playerID;
```

*	playerID	first_name	last_name
1	101	John	Miller
2	104	Liam	OConnor
3	105	Ethan	Brown
4	106	Noah	Wilson
5	109	Michael	Smith

Figure 2: Finding Players on Teams 1, 3, 5

3 Find matches with teams 2 and 3 in April

```
1 SELECT matchID, match_date FROM matches
2 WHERE (match_date BETWEEN '2025-04-01' AND '2025-04-30')
3     AND (home_teamID IN (2, 3) OR away_teamID IN(2, 3));
```

*	matchID	match_date
1	205	2025-04-01
2	206	2025-04-02
3	207	2025-04-10
4	208	2025-04-11
5	210	2025-04-19
6	211	2025-04-26

Figure 3: Finding matches with teams 2 and 3 in April

4 Find ams and ons

```
1 SELECT playerID FROM players
2 WHERE (first_name LIKE '%am%' OR first_name LIKE '%on%')
3     OR (last_name LIKE '%am%' OR last_name LIKE '%on%');
```

*	playerID
1	102
2	104
3	106

Figure 4: Finding players with names containing 'am' or 'on'

5 Get Full Names of Young players

```
1 SELECT playerID, CONCAT(first_name, ' ', last_name) AS full_name
2 FROM players
3 WHERE date_of_birth > '1999-01-01'
```

*	playerID	full_name
1	103	Carlos Garcia
2	105	Ethan Brown
3	108	Arjun Patel
4	110	Daniel Lee

Figure 5: Getting full names of players born after 1999-01-01

6 Find matches without 1 or 2

```
1 SELECT matchID, match_date  
2 FROM matches  
3 WHERE home_teamID NOT IN (1, 2) AND away_teamID NOT IN (1, 2);
```

*	matchID	match_date
1	202	2025-03-16
2	207	2025-04-10
3	212	2025-04-27
4	214	2025-05-04

Figure 6: Finding matches without teams 1 or 2

7 Classify players by height

```
1 SELECT CONCAT(first_name, ' ', last_name) full_name,  
2 IF( height_cm > 180, 'YES', 'NO') AS is_tall  
3 FROM players;
```

*	full_name	is_tall
1	John Miller	YES
2	David Johnson	NO
3	Carlos Garcia	NO
4	Liam OConnor	YES
5	Ethan Brown	NO
6	Noah Wilson	YES
7	Lucas Martinez	NO
8	Arjun Patel	NO
9	Michael Smith	YES
10	Daniel Lee	NO

Figure 7: Classifying players by height

8 Find player birthdays

```
1 SELECT CONCAT(first_name, ' ', last_name) full_name,  
2 DATE_FORMAT(date_of_birth, '%M %d') AS birthday  
3 FROM players;
```

*	full_name	birthday
1	John Miller	March 15
2	David Johnson	November 22
3	Carlos Garcia	July 08
4	Liam OConnor	January 30
5	Ethan Brown	May 12
6	Noah Wilson	September 18
7	Lucas Martinez	December 03
8	Arjun Patel	February 27
9	Michael Smith	June 14
10	Daniel Lee	October 09

Figure 8: Finding player birthdays

9 Find player BMIs

```
1 SELECT playerID,  
2 (weight_kg / ((height_cm / 100) * (height_cm / 100))) AS bmi  
3 FROM players;
```

*	playerID	bmi
1	101	22.750309
2	102	23.148148
3	103	23.747536
4	104	23.008020
5	105	23.481808
6	106	23.993215
7	107	23.060032
8	108	23.784833
9	109	23.686971
10	110	23.237256

Figure 9: Finding player BMIs

10 Find team 1 opponents

```
1 SELECT matchID, match_date, IF(home_teamID = 1, away_teamID, home_teamID) AS
2   opponent
3 FROM matches
4 WHERE home_teamID = 1 OR away_teamID = 1;
```

*	matchID	match_date	opponent
1		201 2025-03-15	2
2		204 2025-03-23	4
3		205 2025-04-01	3
4		209 2025-04-18	4
5		213 2025-05-03	2

Figure 10: Team 1 opponents