**Response**:

1. The email address of the employee who holds the position of Sales Manager is weizhang@example.com.
2. The employee who works in the Product Development department is Tao Huang.
3. For the week starting on August 28, 2024, Wei Zhang generated a sales revenue of $8,336.
4. In response to the original question about employees working in the 'Finance' department, the data indicates that Na Li is the employee currently working in that department.
5. According to the weekly updates, Na Li attended a total of 2 meetings.
6. During week 1, the employees who worked more than 40 hours are Wei Zhang, Tao Huang, Tom Cruise, Gal Gadot, and Dwayne Johnson.
7. The company currently has a total of 10 employees.
8. The average number of hours worked by all employees during week 2 is 40.7 hours.
9. The total sales revenue generated by the Sales department to date is $143,185.
10. During week 1, the company generated a total sales revenue of $15,333.
11. In the first week of September 2024, the employee who worked the most hours was the person with employee ID 4, having worked a total of 43 hours.
12. During week 2, the employee who attended the most meetings was Tao Huang, with a total of 1 meeting attended. This indicates that, in that particular week, no employee attended more than one meeting, and Tao Huang tied with any others who also attended one meeting, making it the highest count of meetings attended by any single employee.
13. ERR: The prompt cannot be fully answered because it requires information on industry recession periods, which is not available in the database tables. This requires external economic data to identify industry recession periods that coincide with the hire dates of employees.
14. The data provides insights into the activities of several employees, highlighting their contributions to addressing customer retention challenges and the solutions they suggested: 1. \*\*Wei Zhang\*\*: While attending a strategy meeting, Wei Zhang was involved in discussions that included key issues surrounding customer retention. Wei emphasized engaging with key accounts and stressed the importance of targeting high-revenue clients, suggesting a strategic focus on valuable customer segments for retention. 2. \*\*Tom Cruise\*\*: Tom led a data analysis project focused on customer behavior patterns. He developed predictive models to forecast customer retention and engagement, allowing the company to understand factors influencing loyalty. This proactive approach offers insights into improving customer retention strategies. No other employees mentioned directly faced challenges with customer retention or proposed explicit solutions related to it. The activities of the others were centered around technical improvements, leadership development, and client engagements, without specific references to customer retention challenges or solutions.
15. Based on the job titles, Tom Cruise is the employee whose role likely requires data analysis or reporting skills.
16. In response to your question, the employees who work in the IT department within the company are Tom Cruise, Chris Evans, and Gal Gadot.
17. During week 1, 'Wei Zhang' worked a total of 42 hours, while 'Tao Huang' worked 44 hours. This means 'Tao Huang' worked 2 hours more than 'Wei Zhang' in that week.
18. The top three employees by total hours worked during the last four weeks are as follows: 1. Scarlett Johansson, who worked a total of 170 hours. 2. Gal Gadot, who worked a total of 167 hours. 3. Chris Evans, who also worked a total of 167 hours. Scarlett Johansson worked the most hours, while Gal Gadot and Chris Evans tied for the second position.
19. Wei Zhang achieved the highest sales revenue in a single week, amounting to 9,593. This achievement occurred in the week starting on July 24, 2024.
20. The employees in the Business Development department collectively worked a total of 398 hours. On average, they generated a sales revenue of $282.30.

**Query generated**:

1. **What is the email address of the employee who is the Sales Manager?** index.js:18:12

SELECT email FROM employees WHERE title LIKE '%Sales Manager%' OR keywords LIKE '%Sales Manager%' OR title LIKE '%sales manager%' OR keywords LIKE '%sales manager%'; index.js:33:16

2. **Which employee in the company works in the Product Development department?** index.js:18:12

SELECT name FROM employees WHERE department LIKE 'Product Development'; index.js:33:16

3. **What was the sales revenue of 'Wei Zhang' for the week starting on '2024-08-28'?** index.js:18:12

```sql SELECT COALESCE(SUM(sales), 0) AS total\_sales FROM week WHERE employee\_ID = (SELECT ID FROM employees WHERE name = 'Wei Zhang') AND start\_date = '2024/8/28'; ``` index.js:33:16

4. **Who are the employees working in the 'Finance' department? index.js:18:12**

SELECT name FROM employees WHERE department = 'Finance'; index.js:33:16

5. **Retrieve the total number of meetings attended by 'Na Li' in her weekly updates.** index.js:18:12

SELECT SUM(activities LIKE '%Meeting%' OR activities LIKE '%meeting%') AS total\_meetings FROM week WHERE employee\_ID = (SELECT ID FROM employees WHERE name = 'Na Li'); index.js:33:16

6. **Which employees worked more than 40 hours during week 1? index.js:18:12**

SELECT employees.name FROM employees INNER JOIN week ON employees.ID = week.employee\_ID WHERE week.weekNumber = 1 AND week.hours > 40; index.js:33:16

7. **How many employees does the company have in total? index.js:18:12**

SELECT COUNT(ID) AS total\_employees FROM employees; index.js:33:16

8. **What is the average hours worked by all employees during week 2? index.js:18:12**

SELECT AVG(hours) FROM week WHERE weekNumber = 2; index.js:33:16

9. **How much total sales revenue has the Sales department generated to date?** index.js:18:12

```sql SELECT SUM(sales) AS total\_sales\_revenue FROM week WHERE employee\_ID IN ( SELECT ID FROM employees WHERE department = 'Sales' ); ``` index.js:33:16

10. **What is the total sales revenue generated by the company during week 1? index.js:18:12**

SELECT SUM(sales) AS total\_sales\_revenue FROM week WHERE weekNumber = 1; index.js:33:16

11. **Who worked the most hours during the first week of September 2024? index.js:18:12**

SELECT employee\_ID, hours FROM week WHERE start\_date = '2024/9/4' ORDER BY hours DESC LIMIT 1; index.js:33:16

12. **Which employee attended the most meetings during week 2? index.js:18:12**

SELECT e.name, COUNT(w.activities) as meetings\_count FROM employees e JOIN week w ON e.ID = w.employee\_ID WHERE w.weekNumber = 2 AND (w.activities LIKE '%Meeting%' OR w.activities LIKE '%meeting%') GROUP BY e.name ORDER BY meetings\_count DESC LIMIT 1; index.js:33:16

13. **Which employees in the company were hired during a time of industry recession (requires external knowledge)?** index.js:18:12

No Response

14. **Who are the employees that faced challenges with customer retention, and what solutions did they propose?** index.js:18:12

SELECT e.name, w.activities FROM employees e JOIN week w ON e.ID = w.employee\_ID WHERE w.activities LIKE '%customer retention%' OR w.activities LIKE '%client retention%' OR w.activities LIKE '%retention challenge%' OR w.activities LIKE '%solution%'; index.js:33:16

15. **Which employees work in roles that likely require data analysis or reporting skills (based on job titles)?** index.js:18:12

SELECT name FROM employees WHERE title LIKE '%Analyst%' OR title LIKE '%Analysis%' OR title LIKE '%Reporting%' OR title LIKE '%report%' OR title LIKE '%Data%'; index.js:33:16

16. **List all employees who work in the IT department within the company.** index.js:18:12

SELECT name FROM employees WHERE department LIKE 'IT'; index.js:33:16

17. **Compare the hours worked by 'Wei Zhang' and 'Tao Huang' during week 1.** index.js:18:12

```sql SELECT e.name, w.weekNumber, w.hours FROM employees e JOIN week w ON e.ID = w.employee\_ID WHERE w.weekNumber = 1 AND (e.name = 'Wei Zhang' OR e.name = 'Tao Huang'); ``` index.js:33:16

18. **Who are the top 3 employees by total hours worked during the last 4 weeks?** index.js:18:12

```sql SELECT e.name, SUM(w.hours) AS total\_hours FROM employees e JOIN week w ON e.ID = w.employee\_ID WHERE w.weekNumber BETWEEN 7 AND 10 GROUP BY e.name ORDER BY total\_hours DESC LIMIT 3; ``` index.js:33:16

19. **Who achieved the highest sales revenue in a single week, and when?** index.js:18:12

```sql SELECT employees.name, week.start\_date, MAX(week.sales) as highest\_sales FROM week JOIN employees ON employees.ID = week.employee\_ID GROUP BY employees.name, week.start\_date ORDER BY highest\_sales DESC LIMIT 1; ``` index.js:33:16

20. **What is the total number of hours worked and average sales revenue for employees in the Business Development department?** index.js:18:12

```sql SELECT SUM(w.hours) AS total\_hours\_worked, AVG(w.sales) AS average\_sales\_revenue FROM employees e JOIN week w ON e.ID = w.employee\_ID WHERE e.department = 'Business Development'; ``` index.js:33:16

​