**Deloitte Interview Questions:-**

#1------------------------------------------------------

**Table 1: employees**

**[emp\_id, first\_name, last\_name, depart\_id, salary, date\_hired]**

**Table 2: department**

**[depart\_id, dept\_name]**

**1. Find the top 3 highest paid employees in each department**

with cte as (

SELECT e.emp\_id, e.first\_name, e.last\_name, e.salary, e.date\_hired, d.dept\_name,

row\_number() over(partition by e.dept\_id order by e.salary desc) as rank

FROM employees e

JOIN department d

ON e.depart\_id = d.depart\_id )

SELECT \* FROM cte

WHERE rank <=3;

**2. Find the average salary of employees hired in last 5 years**

SELECT AVG(salary) as average\_sal

FROM employees

WHERE date\_hired >= DATE\_SUB(CURDATE(), INTERVAL 5 YEAR);

**3. Find the employees whose salary is less than the average salary of employees hired in last 5 years.**

SELECT \*

FROM employees

WHERE salary < ( SELECT ROUND(AVG(salary),2)

FROM employees

WHERE date\_hired >= DATE\_SUB(CURDATE(), INTERVAL 5 YEAR) );

#2------------------------------------------------------

**TABLE1 :- authors**

**[auth\_id, auth\_name]**

**TABLE2 :- books**

**[book\_id, auth\_id, book\_title, pub\_year]**

**1. List all authors and number of books written**

SELECT a.auth\_name,

COUNT(b.book\_id) as num\_of\_books

FROM authors a

LEFT JOIN books b

ON a.auth\_id = b.auth\_id

GROUP BY a.auth\_name

**2. Find books published in the last year and corresponding authors.**

SELECT b.book\_title, a.auth\_name

FROM books b

JOIN authors a

ON b.auth\_id = a.auth\_id

WHERE YEAR(b.pub\_year) = YEAR(CURDATE()-1);

#3------------------------------------------------------

**TABLE1 - employees**

**[emp\_id, name, performance\_rating, salary]**

**1. Taking the salary as the measure define top performer, good performer and others.**

SELECT \*

CASE

WHEN performance\_rating == 'Excellent' THEN 'Top Performer'

WHEN performance\_rating == 'Good' THEN 'Good Performer'

else 'others'

end as performance\_level

FROM employees

#4------------------------------------------------------

**1. Extracting the domain name from the email address**

eg. abvcd@gmail.com ---> gmail

SELECT SUBSTRING\_INDEX(SUBSTRING\_INDEX(gmail, '@', -1),'.',1) as domain

FROM Table