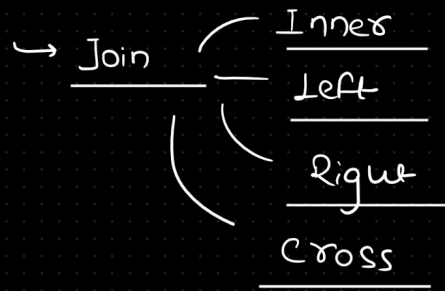
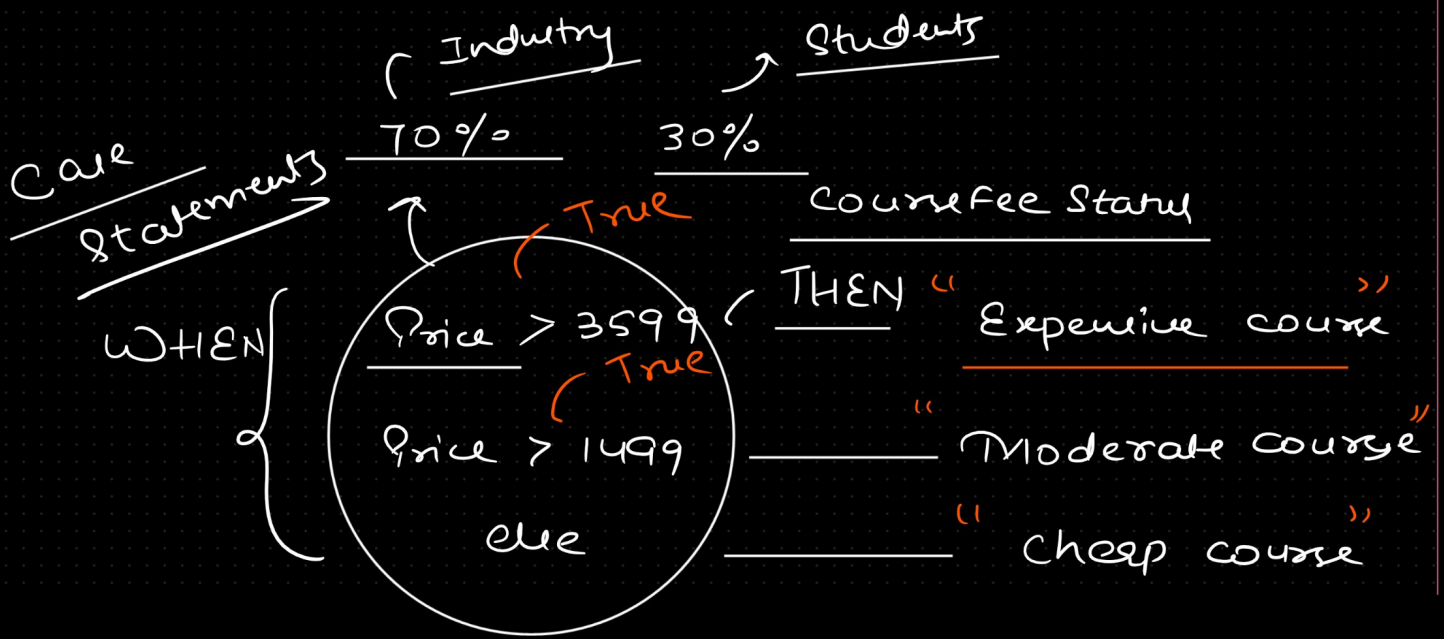
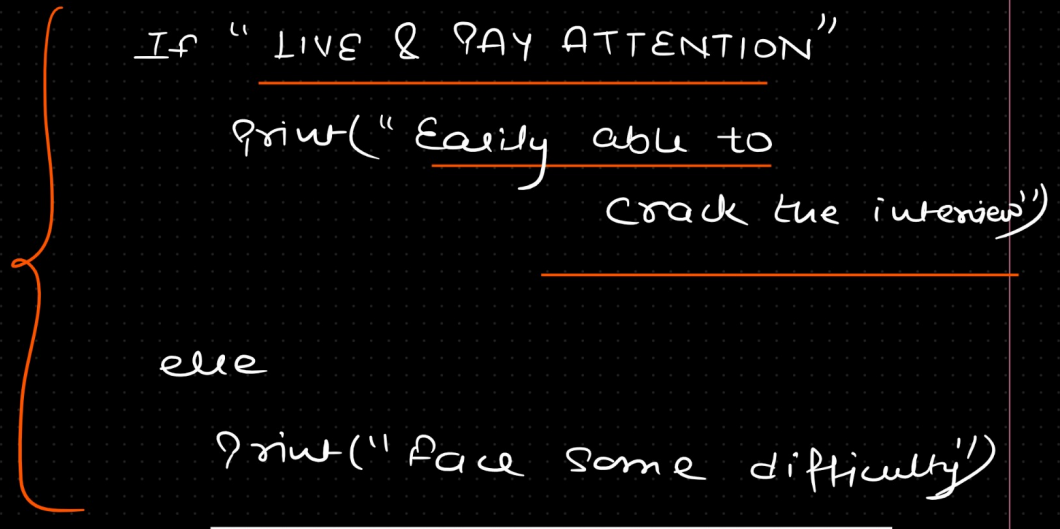
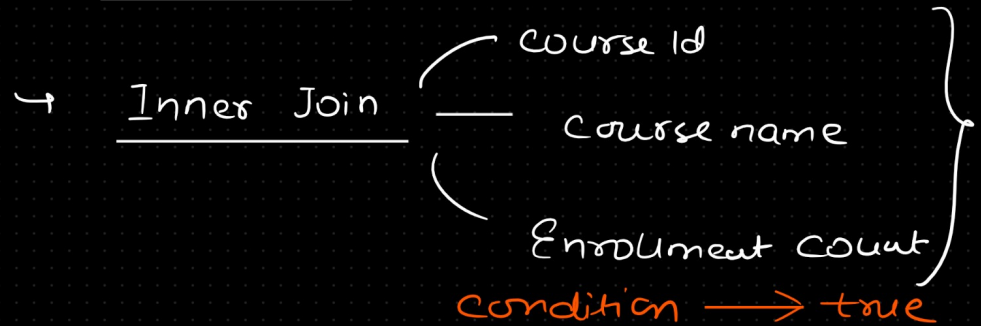


Case statements & CTE



→ Self join



Python Programming
(If-else) Conditional Statements

Loops (for, while) Higher nested loops

SQL

WHEN - THEN

Subqueries Higher time complexity

Optimization

Join

Interview

clean code
Reusability

Complex queries

Common Table Expressions

Python Programming
OOPS
Concept
(Java)
Python

① understandable & Readable

② Reusability

P4 Display the results

```
SELECT temp.Order_Learner_Id, LearnerFirstName, LearnerLastName, temp.total_orders,  
AVG(SUM(temp.total_orders)) OVER() as Avg_Orders_Entire_Student  
FROM
```

```
  (SELECT  
    Order_Learner_Id,  
    COUNT(*) AS total_orders  
  FROM  
    Orders  
  GROUP BY  
    Order_Learner_Id) as temp  
JOIN  
  Learners  
ON  
  temp.Order_Learner_Id = Learners.Learner_Id  
GROUP BY  
  temp.Order_Learner_Id
```

P1 temp table 1 Order_Learner_Id, total_orders

P2 Learners table 2 Inner Join

P3 Grouping

```
SELECT temp.Order_Learner_Id, LearnerFirstName, LearnerLastName, temp.Avg_Orders
FROM Learners
JOIN
(SELECT Order_Learner_Id, COUNT(*) as Total_Orders
FROM orders
Group By Order_Learner_Id
AVG(Total_Orders) OVER (PARTITION BY Order_Learner_Id as Avg_Orders) as temp
ON Learners.Learner_Id=temp.Order_Learner_Id
```

Wrong ✓ ~~AVG (sum (Total-orders))~~ ✓ ✓