

# SQL CONCEPTS

➤ Explain Joins in SQL?

➤ Give number of output records for all types of Joins?

```
CREATE TABLE TABLE1
```

```
(  
ID INT,  
`NAME` VARCHAR (10)  
);
```

```
INSERT INTO TABLE1 VALUES (1,'A'), (1,'B'), (1,'C'), (2,'D'), (2,'E'), (3,'F'), (NULL,'G'), (4,'H');
```

```
SELECT * FROM TABLE1;
```

```
CREATE TABLE TABLE2
```

```
(  
ID INT,  
DEPT VARCHAR (10)  
);
```

```
INSERT INTO TABLE2 VALUES (1,'SALES'), (1,'R&D'), (2,'HR'), (3,'ADMIN'), (NULL,'ANALYST'),  
(5,'HR');
```

```
SELECT * FROM TABLE2;
```

-----**INNER JOIN**-----

```
SELECT TABLE1.ID, TABLE1. `NAME`, TABLE2.DEPT  
FROM TABLE1 INNER JOIN TABLE2 ON TABLE1.ID = TABLE2.ID;
```

-----**LEFT OUTER JOIN**-----

```
SELECT TABLE1.ID, TABLE1. `NAME`, TABLE2.DEPT  
FROM TABLE1 LEFT JOIN TABLE2 ON TABLE1.ID = TABLE2.ID;
```

-----**RIGHT JOIN**-----

```
SELECT TABLE2.ID, TABLE1. `NAME`, TABLE2.DEPT  
FROM TABLE1 RIGHT JOIN TABLE2 ON TABLE1.ID = TABLE2.ID;
```

-----**FULL JOIN**-----

```
SELECT TABLE1.ID, TABLE1. `NAME`, TABLE2.DEPT
```

```
FROM TABLE1 LEFT JOIN TABLE2 ON TABLE1.ID = TABLE2.ID
```

UNION

```
SELECT TABLE2.ID, TABLE1. `NAME`, TABLE2.DEPT
```

```
FROM TABLE1 RIGHT JOIN TABLE2 ON TABLE1.ID = TABLE2.ID;
```

