

# DATABASE

## CODE FOR TABLES :-

```
CREATE TABLE Employee (ename varchar2(10),city varchar2(10));
INSERT INTO Employee VALUES('Abhishek','Los Angeles');
INSERT INTO Employee VALUES('Sunil','Delhi');
INSERT INTO Employee VALUES('Vijay','Delhi');
INSERT INTO Employee VALUES('Abhijeet','Bombay');
INSERT INTO Employee VALUES('Kai','California');
INSERT INTO Employee VALUES('Tyson','Bombay');
INSERT INTO Employee VALUES('Max','Delhi');
```

```
CREATE TABLE Emp_Company (ename varchar2(10),cname varchar2(10),salary number(7,2),jdate DATE);
INSERT INTO Emp_Company VALUES('Abhishek','Apple',200000.00,'10-april-2023');
INSERT INTO Emp_Company VALUES('Sunil','Acc',20000.00,'11-may-2023');
INSERT INTO Emp_Company VALUES('Vijay','Acc',40000.00,'12-june-2023');
INSERT INTO Emp_Company VALUES('Abhijeet','Accenture',7000.00,'13-july-2023');
INSERT INTO Emp_Company VALUES('Kai','Amazon',90000.00,'14-august-2023');
INSERT INTO Emp_Company VALUES('Tyson','Tata',80000.00,'15-september-2023');
INSERT INTO Emp_Company VALUES('Max','Tata',18000.00,'16-october-2023');
```

```
CREATE TABLE Company (cname varchar2(10),city varchar2(10));
INSERT INTO Company VALUES('Apple','Los Angeles');
INSERT INTO Company VALUES('Acc','Kolkata');
INSERT INTO Company VALUES('Netflix','California');
INSERT INTO Company VALUES('Amazon','Bangalore');
INSERT INTO Company VALUES('Tata','Mumbai');
```

```
CREATE TABLE Manager (ename varchar2(10),mname varchar2(10));
INSERT INTO Manager VALUES('Abhishek','Krishna');
INSERT INTO Manager VALUES('Sunil','Kartik');
INSERT INTO Manager VALUES('Vijay','Rohan');
INSERT INTO Manager VALUES('Abhijeet','Hillary');
INSERT INTO Manager VALUES('Kai','Arjun');
INSERT INTO Manager VALUES('Tyson','Trump');
INSERT INTO Manager VALUES('Max','Emmaneul');
```

```
CREATE TABLE Emp_Shift (ename varchar2(10),shift varchar2(1));
INSERT INTO Emp_Shift VALUES('Abhishek','A');
INSERT INTO Emp_Shift VALUES('Sunil','B');
INSERT INTO Emp_Shift VALUES('Vijay','B');
INSERT INTO Emp_Shift VALUES('Abhijeet','B');
INSERT INTO Emp_Shift VALUES('Kai','A');
INSERT INTO Emp_Shift VALUES('Tyson','A');
INSERT INTO Emp_Shift VALUES('Max','B');
```

```
SELECT * FROM Employee;
SELECT * FROM Emp_Company;
SELECT * FROM Company;
SELECT * FROM Manager;
SELECT * FROM Emp_Shift;
```

## OUTPUT OF TABLES :-

### Employee

| ename    | city        |
|----------|-------------|
| Abhishek | Los Angeles |
| Sunil    | Delhi       |
| Vijay    | Delhi       |
| Abhijeet | Bombay      |
| Kai      | California  |
| Tyson    | Bombay      |
| Max      | Delhi       |

### Emp\_Company

| ename    | cname     | salary | jdate             |
|----------|-----------|--------|-------------------|
| Abhishek | Apple     | 200000 | 10-april-2023     |
| Sunil    | Acc       | 20000  | 11-may-2023       |
| Vijay    | Acc       | 40000  | 12-june-2023      |
| Abhijeet | Accenture | 7000   | 13-july-2023      |
| Kai      | Amazon    | 90000  | 14-august-2023    |
| Tyson    | Tata      | 80000  | 15-september-2023 |
| Max      | Tata      | 18000  | 16-october-2023   |

### Company

| cname   | city        |
|---------|-------------|
| Apple   | Los Angeles |
| Acc     | Kolkata     |
| Netflix | California  |
| Amazon  | Bangalore   |
| Tata    | Mumbai      |

### Manager

| ename    | mname    |
|----------|----------|
| Abhishek | Krishna  |
| Sunil    | Kartik   |
| Vijay    | Rohan    |
| Abhijeet | Hillary  |
| Kai      | Arjun    |
| Tyson    | Trump    |
| Max      | Emmaneul |

### Emp\_Shift

| ename    | shift |
|----------|-------|
| Abhishek | A     |
| Sunil    | B     |
| Vijay    | B     |
| Abhijeet | B     |
| Kai      | A     |
| Tyson    | A     |
| Max      | B     |

## QUERIES :-

Q.1] Light the name of employee having maximum salary.

→

Query :-

```
SELECT ename FROM Emp_Company
WHERE Salary IN (SELECT max(Salary)
                  FROM Emp_Company);
```

Output :-

| ename    |
|----------|
| Abhishek |

Q.2] List the name of employee having maximum salary in their company.

→

Query :-

```
SELECT e1.ename FROM Emp_Company e1
WHERE e1.salary IN (SELECT max(e2.Salary)
                    FROM Emp_Company e2
                    WHERE e1.cname = e2.cname);
```

Output :-

| ename    |
|----------|
| Abhishek |
| Vijay    |
| Abhijeet |
| Kai      |
| Tyson    |

Q.3] Find the average salary of each company except ACC.

→

Query :-

```
SELECT cname, avg(Salary)
FROM Emp_Company
WHERE cname!= 'ACC'
group by cname
having avg(Salary) > 40000;
```

Output :-

| cname  | avg(Salary) |
|--------|-------------|
| Amazon | 90000       |
| Apple  | 200000      |
| Tata   | 49000       |

**Q.4]** Find average salary of each company except ACC.

→

Query :-

```
SELECT ec.cname, avg(ec.Salary)
FROM Emp_Company ec
WHERE ec.ename IN (SELECT e.ename
                   FROM Employee e
                   WHERE e.city = 'Delhi')
group by ec.cname;
```

Output :-

| cname | avg(ec.Salary) |
|-------|----------------|
| Acc   | 30000          |
| Tata  | 18000          |

**Q.5]** Find the name of company having highest average salary.

→

Query :-

```
SELECT ec.cname, AVG(ec.salary) AS avg_salary
FROM Emp_Company ec
GROUP BY ec.cname
HAVING AVG(ec.salary) = (SELECT MAX(avg_salary)
                        FROM (SELECT AVG(salary) AS avg_salary
                              FROM Emp_Company
                              GROUP BY cname));
```

Output :-

| cname | avg_salary |
|-------|------------|
| Apple | 200000     |

**Q.6]** List the number of employees living in BOMBAY.

→

Query :-

```
SELECT count(ename)
FROM Employee
WHERE city = 'Bombay';
```

Output :-

| count(ename) |
|--------------|
| 2            |

**Q.7]** List the name of employees with his living city having maximum salary in company TATA.

→

Query :-

```
SELECT ename,city
FROM Employee
WHERE ename IN (SELECT ec2.ename
                FROM Emp_Company ec2
                WHERE ec2.salary IN (SELECT max(ec1.salary)
                                     FROM Emp_Company ec1
                                     WHERE ec1.cname = 'Tata'));
```

Output :-

| ename | city   |
|-------|--------|
| Tyson | Bombay |