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Database Management Systems-18CSC303J

EXPERIMENT- 2

AIM

1. List the distinct salary records in the company table.
2. List the records in the company table with minimum salary.
3. List the records in the company table with maximum salary.
4. List the top 4 records in the company table.
5. Count the number of records in the company table.
6. Find the average salary from the company table.
7. Find the sum of salary from the company table.
8. List the records from the company table where age ranges between 25 to 27.
9. List the records from the company table where age not ranges between 25 to 27.
10. List the names of the employees from the company where name starts with 'M'.
11. List the names of the employees from the company where name ends with 'd'.

CODE

BEGIN TRANSACTION;

/* Create a table called NAMES */

CREATE TABLE COMPANY(Id integer PRIMARY KEY, Name text, AGE int, Address text, Salary int);

/* Create few records in this table */

INSERT INTO COMPANY VALUES(1,'Paul', 32, 'California', 20000.0);

INSERT INTO COMPANY VALUES(2,'Allen', 25,'Texas', 15000.0);

INSERT INTO COMPANY VALUES(3,'Teddy',23,'Norway',20000.0);

INSERT INTO COMPANY VALUES(4,'Mark', 25,'Rich-Mond', 65000.0);

INSERT INTO COMPANY VALUES(5,'David', 27,'Texas',85000.0);

```
INSERT INTO COMPANY VALUES(6,'Kim', 22,'South-Hall',45000.0);
INSERT INTO COMPANY VALUES(7,'James', 24,'Houston',10000.0);
COMMIT;


/* Display all the records from the table */
SELECT DISTINCT SALARY FROM COMPANY;
SELECT ID,NAME,AGE,ADDRESS,SALARY, MIN(SALARY) FROM COMPANY;
SELECT ID,NAME,AGE,ADDRESS,SALARY, MAX(SALARY) FROM COMPANY;
SELECT * FROM COMPANY LIMIT 4;
SELECT COUNT(*) FROM COMPANY;
SELECT AVG(SALARY) FROM COMPANY;
SELECT SUM(SALARY) FROM COMPANY;
SELECT * FROM COMPANY WHERE AGE BETWEEN 25 AND 27;
SELECT * FROM COMPANY WHERE AGE NOT BETWEEN 25 AND 27;
SELECT NAME FROM COMPANY WHERE NAME like 'M%';
SELECT NAME FROM COMPANY WHERE NAME like '%D';
```
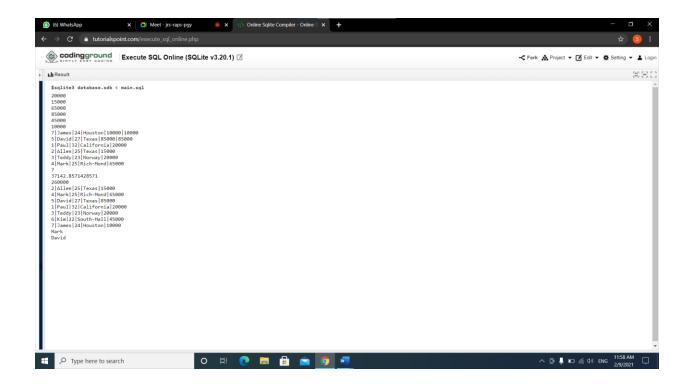
Output:

```
$sqlite3 database.sdb < main.sql
20000
15000
65000
85000
45000
10000
7|James|24|Houston|10000|10000
5|David|27|Texas|85000|85000
1|Paul|32|California|20000
2|Allen|25|Texas|15000
3|Teddy|23|Norway|20000
4|Mark|25|Rich-Mond|65000
7
37142.8571428571
260000
2|Allen|25|Texas|15000
4|Mark|25|Rich-Mond|65000
5|David|27|Texas|85000
1|Paul|32|California|20000
3|Teddy|23|Norway|20000
6|Kim|22|South-Hall|45000
7|James|24|Houston|10000
Mark
David
```

RESULT:

The aim of experiment to create the table and execute the queries was successfully executed.