



*School Of Computer Science and Engineering*

ASSIGNMENT 3

**(Winter Sem 2021-2022)**

**Course Code:** CSE2007

**Course Title:** Database Management Systems

Faculty Name: Manomita Chakraborty (70296)

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NAME:MAJJIGA JASWANTH

REGNO:20BCD7171

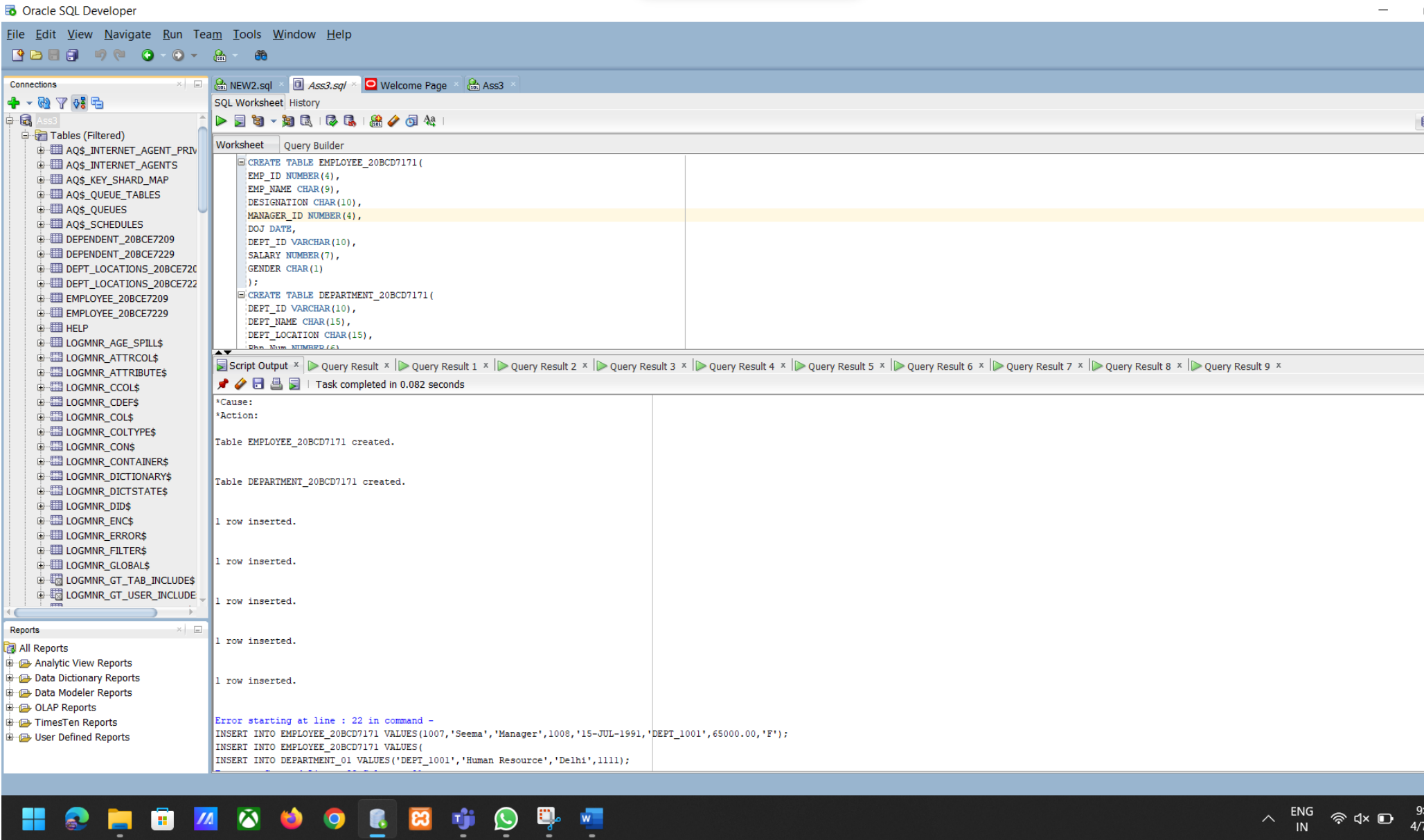
Aim: To understand different operators and types of functions in SQL Consider the following tables:

**Table Name: Employee**

EMP_ID	EMP_NAME	DESIGNATION	MANAGER_ID	DOJ	DEPT_ID	SALARY	GENDER
1008	Kiran	Principal	1008	1978-02-01	DEPT_1004	99000.00	M
1001	Akash	Salesman	1008	1991-07-15	DEPT_1003	35000.00	M
1002	Rishabh	Manager	1008	1992-05-23	DEPT_1001	65000.00	M
1004	Ridhi	Manager	1008	1987-11-22	DEPT_1001	85000.00	F
1003	Rihan	Analyst	1004	1991-07-15	DEPT_1001	55000.00	M
1007	Seema	Manager	1008	1991-07-15	DEPT_1001	65000.00	F
1005	Sajal	Salesman	1007	1991-07-15	DEPT_1003	35000.00	M
1006	Biki	Salesman	1002	1999-11-26	DEPT_1003	25000.00	F

**Table Name: Department**

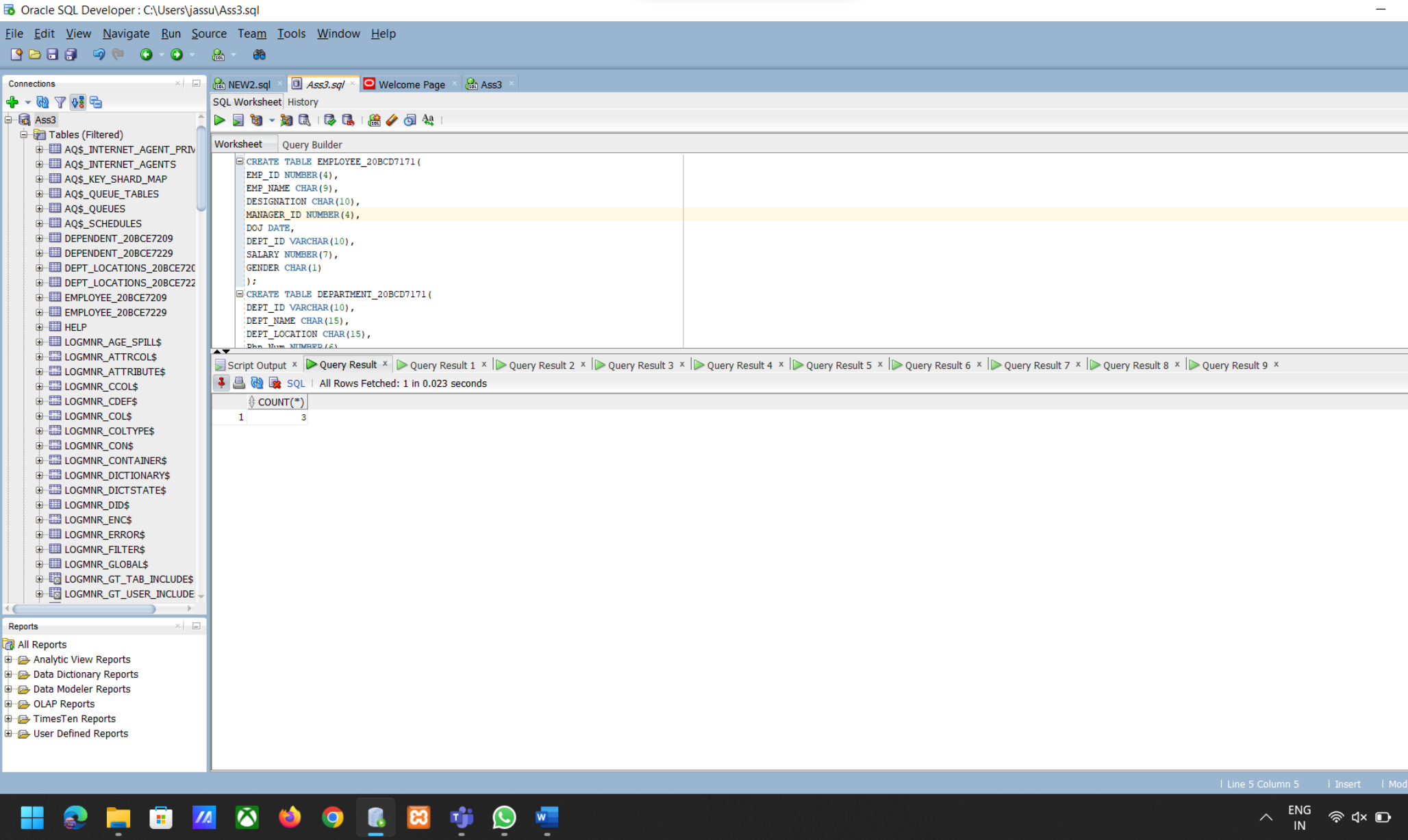
DEPT_ID	DEPT_NAME	DEPT_LOCATION	Phn_Num
DEPT_1001	Human Resource	Delhi	1111
DEPT_1002	Production	Kolkata	2222
DEPT_1003	Marketing	Kerala	3333
DEPT_1004	Audit	Noida	4444
DEPT_1005	Finance	Andhra Pradesh	5555



## Questions

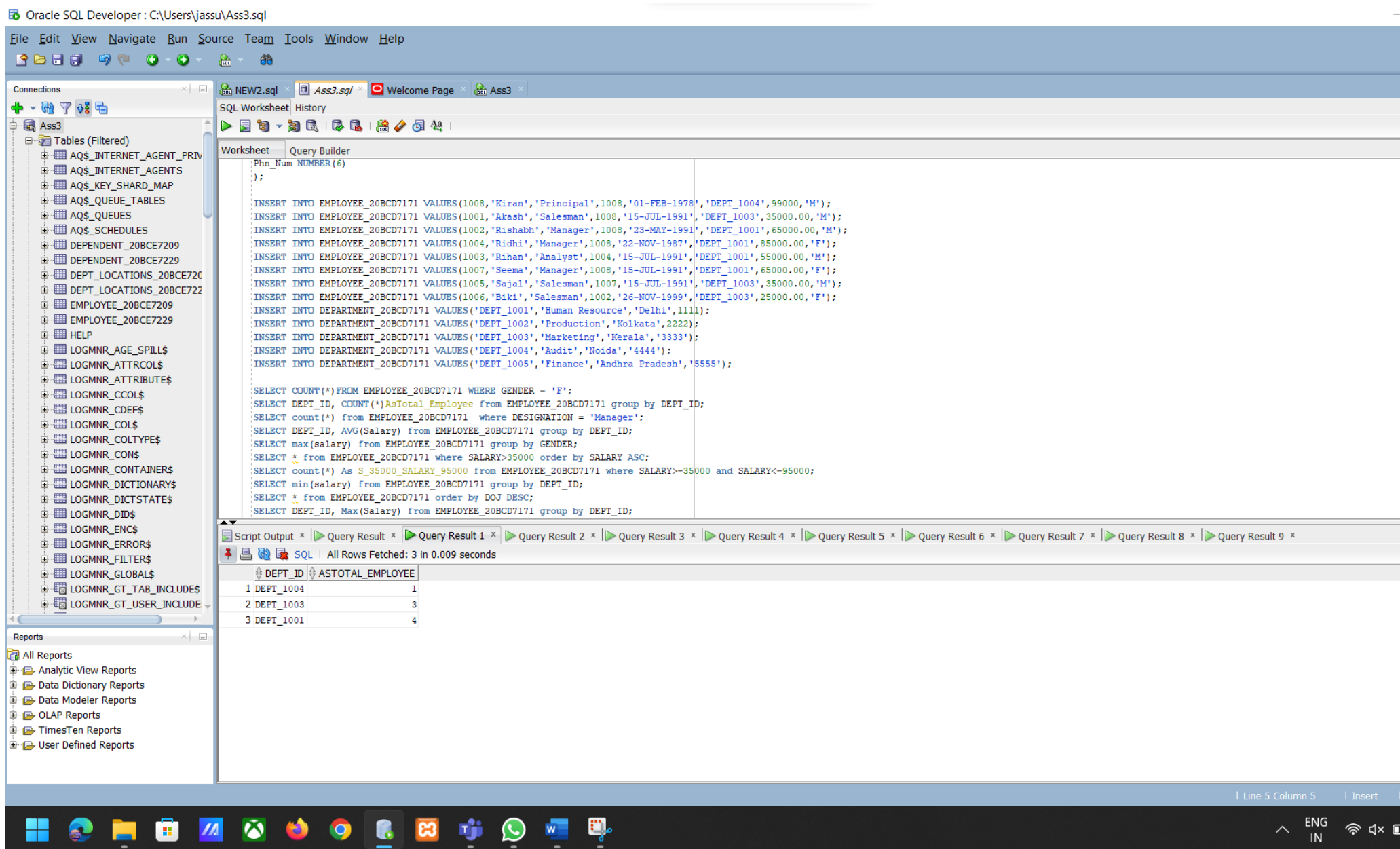
1. How many female employees are there?

Select count(\*) from employee where Gender = 'F';



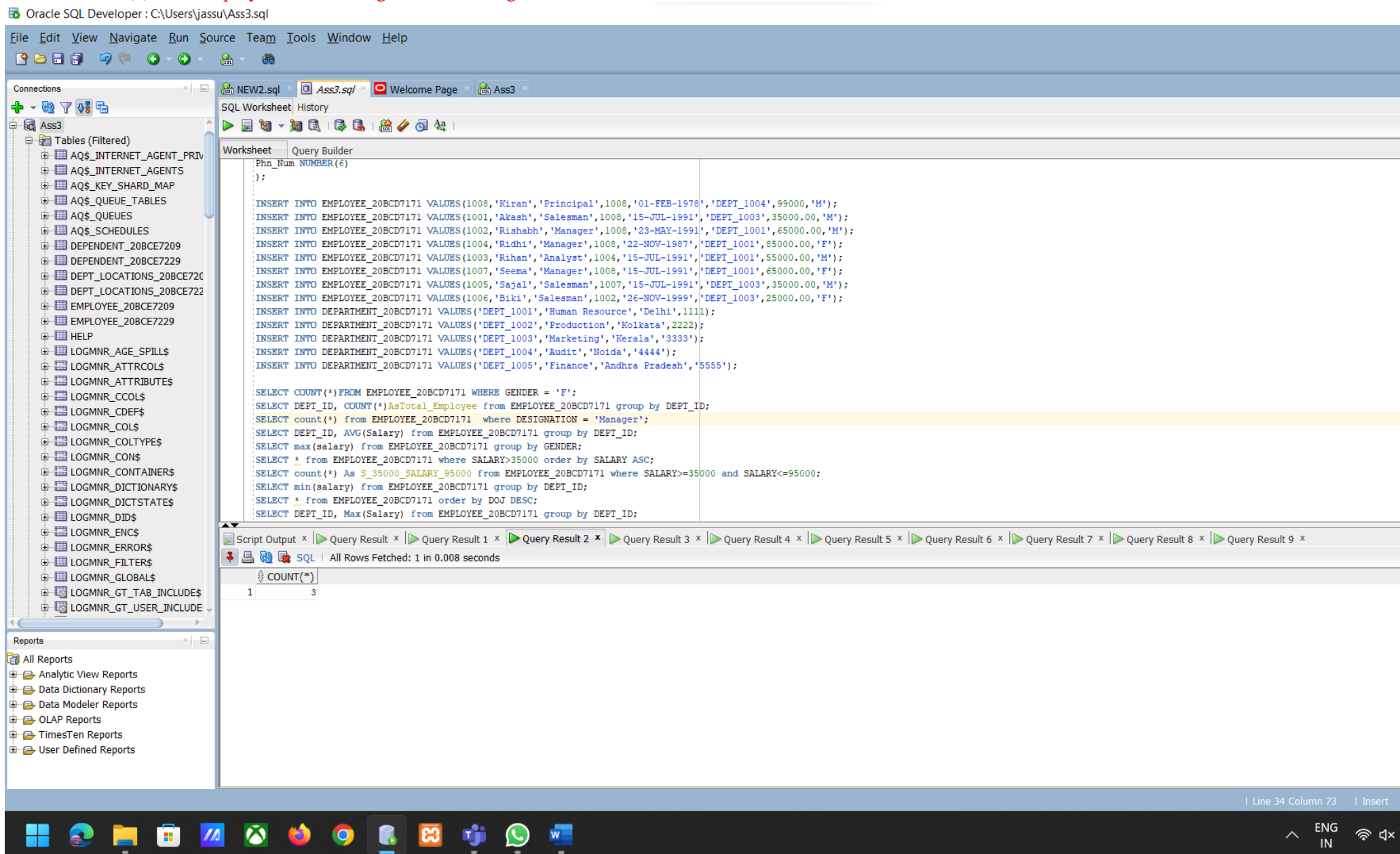
2. Print the Department Id and total number of employees as Total\_Employee in each department.

SELECT DEPT\_ID, count(\*) As Total\_Employee from employee group by DEPT\_ID;



### 3. How many employees work as Manager?

**SELECT count(\*) from employee where Designation = 'Manager';**

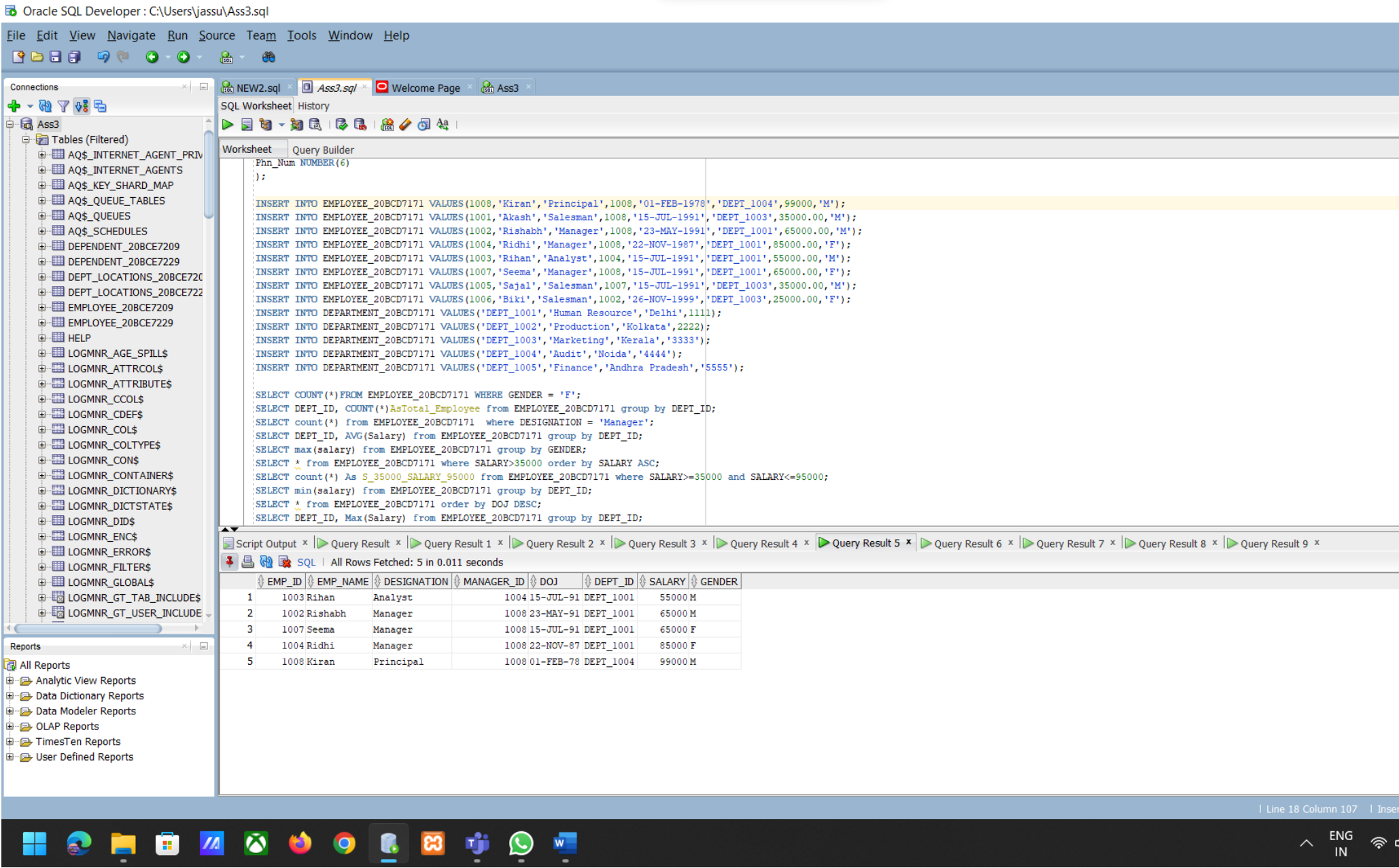


### 4. What is the average salary of each department? Also display the department Ids.

**SELECT DEPT\_ID, AVG(Salary) from employee group by DEPT\_ID;**

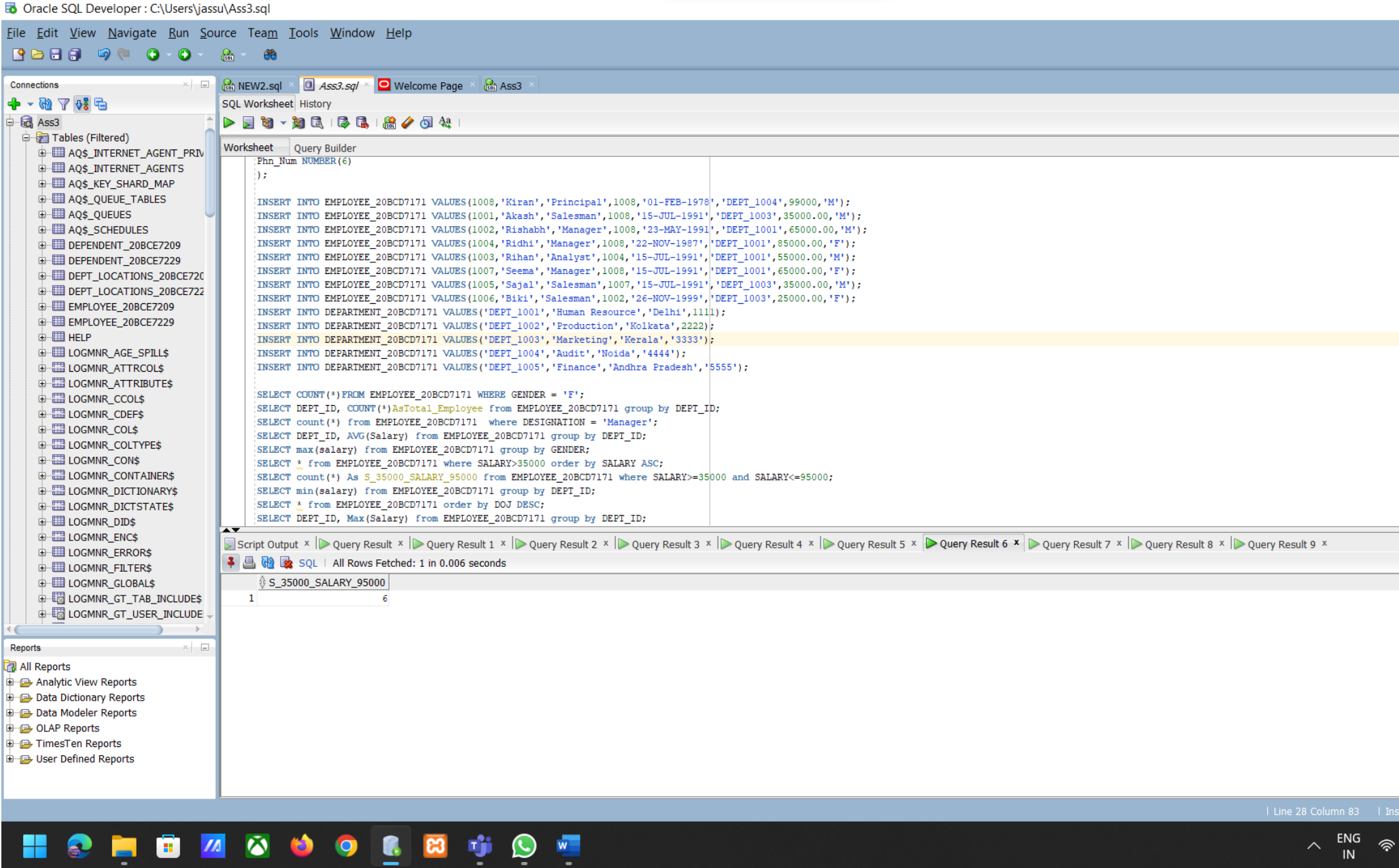






7. How many employees are paid between 35000 to 95000? Display the result with the column name as '35000<Salary<95000'.

**SELECT count(\*) As '35000<Salary<95000' from employee where salary>=35000 and salary<=95000;**



8. Display the employee details of each department who get lowest salary.



SELECT min(salary) from employee group by DEPT\_ID;

Oracle SQL Developer : C:\Users\jassu\Ass3.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

Ass3

Tables (Filtered)

- AQ\$\_INTERNET\_AGENT\_PRIV
- AQ\$\_INTERNET\_AGENTS
- AQ\$\_KEY\_SHARD\_MAP
- AQ\$\_QUEUE\_TABLES
- AQ\$\_QUEUES
- AQ\$\_SCHEDULES
- DEPENDENT\_20BCE7209
- DEPENDENT\_20BCE7229
- DEPT\_LOCATIONS\_20BCE720
- DEPT\_LOCATIONS\_20BCE722
- EMPLOYEE\_20BCE7209
- EMPLOYEE\_20BCE7229
- HELP
- LOGMNR\_AGE\_SPILL\$
- LOGMNR\_ATTRCOL\$
- LOGMNR\_ATTRIBUTES\$
- LOGMNR\_CCOL\$
- LOGMNR\_CDEF\$
- LOGMNR\_COL\$
- LOGMNR\_COLTYPE\$
- LOGMNR\_CON\$
- LOGMNR\_CONTAINERS\$
- LOGMNR\_DICTIONARY\$
- LOGMNR\_DICTSTAT\$
- LOGMNR\_DID\$
- LOGMNR\_ENC\$
- LOGMNR\_ERRORS\$
- LOGMNR\_FILTER\$
- LOGMNR\_GLOBAL\$
- LOGMNR\_GT\_TAB\_INCLUDE\$
- LOGMNR\_GT\_USER\_INCLUDE\$

SQL Worksheet

Phn\_Num NUMBER(6)

```
);
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1008,'Kiran','Principal',1008,'01-FEB-1978','DEPT_1004',99000,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1001,'Akash','Salesman',1008,'15-JUL-1991','DEPT_1003',35000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1002,'Rishabh','Manager',1008,'23-MAY-1991','DEPT_1001',65000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1004,'Ridhi','Manager',1008,'22-NOV-1987','DEPT_1001',85000.00,'F');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1003,'Rihan','Analyst',1004,'15-JUL-1991','DEPT_1001',55000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1007,'Seema','Manager',1008,'15-JUL-1991','DEPT_1001',65000.00,'F');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1005,'Sajal','Salesman',1007,'15-JUL-1991','DEPT_1003',35000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1006,'Biki','Salesman',1002,'26-NOV-1999','DEPT_1003',25000.00,'F');
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1001','Human Resource','Delhi',1111);
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1002','Production','Kolkata',2222);
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1003','Marketing','Kerala','3333');
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1004','Audit','Noida','4444');
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1005','Finance','Andhra Pradesh','5555');

SELECT COUNT(*) FROM EMPLOYEE_20BCD7171 WHERE GENDER = 'F';
SELECT DEPT_ID, COUNT(*) As Total_Employee from EMPLOYEE_20BCD7171 group by DEPT_ID;
SELECT count(*) from EMPLOYEE_20BCD7171 where DESIGNATION = 'Manager';
SELECT DEPT_ID, AVG(Salary) from EMPLOYEE_20BCD7171 group by DEPT_ID;
SELECT max(salary) from EMPLOYEE_20BCD7171 group by GENDER;
SELECT * from EMPLOYEE_20BCD7171 where SALARY>35000 order by SALARY ASC;
SELECT count(*) As S_35000_SALARY_95000 from EMPLOYEE_20BCD7171 where SALARY>=35000 and SALARY<=95000;
SELECT min(salary) from EMPLOYEE_20BCD7171 group by DEPT_ID;
SELECT * from EMPLOYEE_20BCD7171 order by DOJ DESC;
SELECT DEPT_ID, Max(Salary) from EMPLOYEE_20BCD7171 group by DEPT_ID;
```

Script Output x | Query Result x | Query Result 1 x | Query Result 2 x | Query Result 3 x | Query Result 4 x | Query Result 5 x | Query Result 6 x | Query Result 7 x | Query Result 8 x | Query Result 9 x

SQL | All Rows Fetched: 3 in 0.006 seconds

	MIN(SALARY)
1	99000
2	25000
3	55000

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Line 28 Column 83

9. Display the employee details with decreasing order of their joining date

SELECT \* from employee order by DOJ DESC;

Oracle SQL Developer : C:\Users\jassu\Ass3.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

Ass3

Tables (Filtered)

- AQ\$\_INTERNET\_AGENT\_PRIV
- AQ\$\_INTERNET\_AGENTS
- AQ\$\_KEY\_SHARD\_MAP
- AQ\$\_QUEUE\_TABLES
- AQ\$\_QUEUES
- AQ\$\_SCHEDULES
- DEPENDENT\_20BCE7209
- DEPENDENT\_20BCE7229
- DEPT\_LOCATIONS\_20BCE720
- DEPT\_LOCATIONS\_20BCE722
- EMPLOYEE\_20BCE7209
- EMPLOYEE\_20BCE7229
- HELP
- LOGMNR\_AGE\_SPILL\$
- LOGMNR\_ATTRCOL\$
- LOGMNR\_ATTRIBUTES\$
- LOGMNR\_CCOL\$
- LOGMNR\_CDEF\$
- LOGMNR\_COL\$
- LOGMNR\_COLTYPE\$
- LOGMNR\_CON\$
- LOGMNR\_CONTAINERS\$
- LOGMNR\_DICTIONARY\$
- LOGMNR\_DICTSTAT\$
- LOGMNR\_DID\$
- LOGMNR\_ENC\$
- LOGMNR\_ERRORS\$
- LOGMNR\_FILTER\$
- LOGMNR\_GLOBAL\$
- LOGMNR\_GT\_TAB\_INCLUDE\$
- LOGMNR\_GT\_USER\_INCLUDE\$

SQL Worksheet

Phn\_Num NUMBER(6)

```
);
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1008,'Kiran','Principal',1008,'01-FEB-1978','DEPT_1004',99000,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1001,'Akash','Salesman',1008,'15-JUL-1991','DEPT_1003',35000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1002,'Rishabh','Manager',1008,'23-MAY-1991','DEPT_1001',65000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1004,'Ridhi','Manager',1008,'22-NOV-1987','DEPT_1001',85000.00,'F');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1003,'Rihan','Analyst',1004,'15-JUL-1991','DEPT_1001',55000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1007,'Seema','Manager',1008,'15-JUL-1991','DEPT_1001',65000.00,'F');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1005,'Sajal','Salesman',1007,'15-JUL-1991','DEPT_1003',35000.00,'M');
INSERT INTO EMPLOYEE_20BCD7171 VALUES (1006,'Biki','Salesman',1002,'26-NOV-1999','DEPT_1003',25000.00,'F');
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1001','Human Resource','Delhi',1111);
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1002','Production','Kolkata',2222);
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1003','Marketing','Kerala','3333');
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1004','Audit','Noida','4444');
INSERT INTO DEPARTMENT_20BCD7171 VALUES ('DEPT_1005','Finance','Andhra Pradesh','5555');

SELECT COUNT(*) FROM EMPLOYEE_20BCD7171 WHERE GENDER = 'F';
SELECT DEPT_ID, COUNT(*) As Total_Employee from EMPLOYEE_20BCD7171 group by DEPT_ID;
SELECT count(*) from EMPLOYEE_20BCD7171 where DESIGNATION = 'Manager';
SELECT DEPT_ID, AVG(Salary) from EMPLOYEE_20BCD7171 group by DEPT_ID;
SELECT max(salary) from EMPLOYEE_20BCD7171 group by GENDER;
SELECT * from EMPLOYEE_20BCD7171 where SALARY>35000 order by SALARY ASC;
SELECT count(*) As S_35000_SALARY_95000 from EMPLOYEE_20BCD7171 where SALARY>=35000 and SALARY<=95000;
SELECT min(salary) from EMPLOYEE_20BCD7171 group by DEPT_ID;
SELECT * from EMPLOYEE_20BCD7171 order by DOJ DESC;
SELECT DEPT_ID, Max(Salary) from EMPLOYEE_20BCD7171 group by DEPT_ID;
```

Script Output x | Query Result x | Query Result 1 x | Query Result 2 x | Query Result 3 x | Query Result 4 x | Query Result 5 x | Query Result 6 x | Query Result 7 x | Query Result 8 x | Query Result 9 x

SQL | All Rows Fetched: 8 in 0.009 seconds

EMP_ID	EMP_NAME	DESIGNATION	MANAGER_ID	DOJ	DEPT_ID	SALARY	GENDER
1	1006 Biki	Salesman		1002 26-NOV-99	DEPT_1003	25000	F
2	1005 Sajal	Salesman		1007 15-JUL-91	DEPT_1003	35000	M
3	1001 Akash	Salesman		1008 15-JUL-91	DEPT_1003	35000	M
4	1003 Rihan	Analyst		1004 15-JUL-91	DEPT_1001	55000	M
5	1007 Seema	Manager		1008 15-JUL-91	DEPT_1001	65000	F
6	1002 Rishabh	Manager		1008 23-MAY-91	DEPT_1001	65000	M
7	1004 Ridhi	Manager		1008 22-NOV-87	DEPT_1001	85000	F
8	1008 Kiran	Principal		1008 01-FEB-78	DEPT_1004	99000	M

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Line 28 Column 83

10. What is the Maximum salary of each department?  
**SELECT DEPT\_ID, Max(Salary) from employee group by DEPT\_ID;**

Oracle SQL Developer : C:\Users\jassu\Ass3.sql

FileEditViewNavigateRunSourceTeamToolsWindowHelp

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SQL WorksheetHistory

WorksheetQuery Builder

Phn\_Num NUMBER(6)  
);  
  
INSERT INTO EMPLOYEE\_20BCD7171 VALUES(1008,'Kiran','Principal',1008,'01-FEB-1978','DEPT\_1004',99000,'M');  
INSERT INTO EMPLOYEE\_20BCD7171 VALUES(1001,'Akash','Salesman',1008,'15-JUL-1991','DEPT\_1003',35000.00,'M');  
INSERT INTO EMPLOYEE\_20BCD7171 VALUES(1002,'Rishabh','Manager',1008,'23-MAY-1991','DEPT\_1001',65000.00,'M');  
INSERT INTO EMPLOYEE\_20BCD7171 VALUES(1004,'Ridhi','Manager',1008,'22-NOV-1987','DEPT\_1001',85000.00,'F');  
INSERT INTO EMPLOYEE\_20BCD7171 VALUES(1003,'Rihan','Analyst',1004,'15-JUL-1991','DEPT\_1001',55000.00,'M');  
INSERT INTO EMPLOYEE\_20BCD7171 VALUES(1007,'Seema','Manager',1008,'15-JUL-1991','DEPT\_1001',65000.00,'F');  
INSERT INTO EMPLOYEE\_20BCD7171 VALUES(1005,'Sajal','Salesman',1007,'15-JUL-1991','DEPT\_1003',35000.00,'M');  
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INSERT INTO DEPARTMENT\_20BCD7171 VALUES('DEPT\_1003','Marketing','Kerala',3333);  
INSERT INTO DEPARTMENT\_20BCD7171 VALUES('DEPT\_1004','Audit','Noida','4444');  
INSERT INTO DEPARTMENT\_20BCD7171 VALUES('DEPT\_1005','Finance','Andhra Pradesh','5555');  
  
SELECT COUNT(\*)FROM EMPLOYEE\_20BCD7171 WHERE GENDER = 'F';  
SELECT DEPT\_ID, COUNT(\*)AsTotal\_Employee from EMPLOYEE\_20BCD7171 group by DEPT\_ID;  
SELECT count(\*) from EMPLOYEE\_20BCD7171 where DESIGNATION = 'Manager';  
SELECT DEPT\_ID, AVG(Salary) from EMPLOYEE\_20BCD7171 group by DEPT\_ID;  
SELECT max(salary) from EMPLOYEE\_20BCD7171 group by GENDER;  
SELECT \* from EMPLOYEE\_20BCD7171 where SALARY>35000 order by SALARY ASC;  
SELECT count(\*) As S\_35000\_SALARY\_95000 from EMPLOYEE\_20BCD7171 where SALARY>=35000 and SALARY<=95000;  
SELECT min(salary) from EMPLOYEE\_20BCD7171 group by DEPT\_ID;  
SELECT \* from EMPLOYEE\_20BCD7171 order by DOJ DESC;  
SELECT DEPT\_ID, Max(Salary) from EMPLOYEE\_20BCD7171 group by DEPT\_ID;

Script OutputQuery ResultQuery Result 1Query Result 2Query Result 3Query Result 4Query Result 5Query Result 6Query Result 7Query Result 8Query Result 9

SQL | All Rows Fetched: 3 in 0.005 seconds

DEPT_ID	MAX(SALARY)
1 DEPT_1004	99000
2 DEPT_1003	35000
3 DEPT_1001	85000

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

OLAP Reports

TimesTen Reports

User Defined Reports

Line 21 Column 10

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