DBMS LAB ASSIGNMENT-1

SUBMITTED BY : PRABUDDHA KUMAR

SECTION – C

ROLL NO – 15

*CREATING TABLE STUDENT , APPLY , COLLEGE AND INSERTING VALUES:

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```
1   CREATE TABLE Student
2   (
3   sID int,
4   sName varchar2 (10),
5   GPA number (2,1),
6   sizeHS int,
7   DoB date
8   );
```

Table created.

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                                                                                                10-07-2020

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```
1  CREATE TABLE Apply
2  (
3  sID int,
4  cName varchar2 (10),
5  major varchar2 (20),
6  decision char (1)
7  );
```

Table created.

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```sql
1  CREATE TABLE College
2  (
3  cName varchar2 (10),
4  state varchar2 (10),
5  enrollment int
6  );
7
```

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                     SQL Statement Output

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```
1  SELECT * FROM Student;
```

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	3.9	1000	26-JUN-96
234	Bob	3.6	1500	07-APR-95
345	Craig	3.5	500	04-FEB-95
456	Doris	3.9	1000	24-JUL-97
567	Edward	2.9	2000	21-DEC-96
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
987	Helen	3.7	800	27-MAR-97
876	Irene	3.9	400	07-MAR-96
765	Jay	2.9	1500	08-AUG-98
654	Amy	3.9	1000	26-MAY-96
543	Craig	3.4	2000	27-AUG-98

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```
1   SELECT * FROM APPLY;
```

SID	CNAME	MAJOR	DECISION
123	Stanford	CS	Y
123	Stanford	EE	N
123	Berkeley	CS	Y
123	Cornell	EE	Y
234	Berkeley	biology	N
345	MIT	bioengineering	Y
345	Cornell	bioengineering	N
345	Cornell	CS	Y
345	Cornell	EE	N
678	Stanford	history	Y
987	Stanford	CS	Y
987	Berkeley	CS	Y
876	Stanford	CS	N

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```
1  SELECT * FROM COLLEGE ;
```

CNAME	STATE	ENROLLMENT
Stanford	CA	15000
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

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```
1  /*  1. List the student name, dob from student table*/
2  SELECT SNAME,DOB FROM STUDENT;
```

SNAME	DOB
Amy	26-JUN-96
Bob	07-APR-95
Craig	04-FEB-95
Doris	24-JUL-97
Edward	21-DEC-96
Fay	27-AUG-96
Gary	08-OCT-96
Helen	27-MAR-97
Irene	07-MAR-96
Jay	08-AUG-98
Amy	26-MAY-96
Craig	27-AUG-98

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```
1   /* 2. List the name of student scoring more than 3.7 in GPA. */
2   SELECT SNAME FROM STUDENT
3   WHERE GPA>3.7;
```

SNAME
Amy
Doris
Fay
Irene
Amy

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```
1  /* 3. List the name of student whose High School size is atleast 1000 and born after 1996. [Hint: check DoB greater than 31st December, 1996] */
2
3  SELECT SNAME
4  FROM STUDENT
5  WHERE SIZEHS >= 1000 AND DOB > '31-DEC-96';
6
7
```

SNAME
Doris
Jay
Craig

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3 rows selected.

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```
1  /* 4. List the name of student who are scoring GPA in between 2.9 and 3.9 */
2
3  SELECT sNAME
4  FROM STUDENT
5  WHERE GPA BETWEEN 2.9 AND 3.9;
```

SNAME
Craig
Amy
Amy
Edward
Bob
Doris
Helen
Irene
Fay
Gary
Jay
Craig

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SQL Worksheet

```
1
2  /*5. List all the details of colleges who situated in MA.*/
3
4
5  SELECT *
6  FROM COLLEGE
7  WHERE STATE = 'MA';
8
```

CNAME	STATE	ENROLLMENT
MIT	MA	10000
Harvard	MA	50040

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```
1  /*6. List the students who are scored more than 2.0 but less than 3.5.*/
2
3  SELECT * FROM STUDENT WHERE GPA > 2.0 AND GPA < 3.5;
4
```

SID	SNAME	GPA	SIZEHS	DOB
567	Edward	2.9	2000	21-DEC-96
789	Gary	3.4	800	08-OCT-96
765	Jay	2.9	1500	08-AUG-98
543	Craig	3.4	2000	27-AUG-98

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```sql
1   /*7. List the students who have born after 1st Jul 96 in the order of the Date of Birth.*/
2
3   SELECT *
4   FROM STUDENT
5   WHERE DOB > '01-JUL-96'
6   ORDER BY DOB;
7
```

SID	SNAME	GPA	SIZEHS	DOB
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
567	Edward	2.9	2000	21-DEC-96
987	Helen	3.7	800	27-MAR-97
456	Doris	3.9	1000	24-JUL-97
765	Jay	2.9	1500	08-AUG-98
543	Craig	3.4	2000	27-AUG-98

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```
1  /* 8. List the sID, cName, decision of applications that are accepted */
2
3  SELECT SID, CNAME , DECISION FROM APPLY WHERE DECISION='Y';
4
5  |
```

SID	CNAME	DECISION
123	Cornell	Y
123	Stanford	Y
123	Berkeley	Y
345	MIT	Y
345	Cornell	Y
678	Stanford	Y
987	Stanford	Y
987	Berkeley	Y
876	MIT	Y
765	Stanford	Y
765	Cornell	Y

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```sql
1    /* 9. List the sID, cName of applications which are filled at Stanford. */
2
3    SELECT SID, CNAME,DECISION  FROM APPLY WHERE CNAME='Stanford';
4
5    |
6
7
```

SID	CNAME	DECISION
123	Stanford	Y
123	Stanford	N
678	Stanford	Y
987	Stanford	Y
876	Stanford	N
765	Stanford	Y

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```
1  /* 10. List the colleges that has enrollment greater than 10001.*/
2
3  SELECT *
4  FROM COLLEGE
5  WHERE ENROLLMENT > 10001;
6
7  |
```

CNAME	STATE	ENROLLMENT
Cornell	NY	21000
Berkeley	CA	36000
Stanford	CA	15000
Harvard	MA	50040

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```
1  /* 11. List the colleges not in California. */
2
3  SELECT CNAME FROM COLLEGE
4  WHERE STATE != 'CA';
5
```

CNAME
MIT
Cornell
Harvard

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```
1  /* 12. List names of all student who came from high school having size greater than 17000 and scored GPA less than 3.8. */
2
3  SELECT SNAME FROM STUDENT
4  WHERE SIZEHS > 17000 AND GPA < 3.8 ;
5
6
```

Schema

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```
1  /* 13. Display the description of the Student table.  */
2
3  SELECT * FROM ALL_TAB_COLUMNS
4  WHERE TABLE_NAME='STUDENT' ;
5
6
7
```

OWNER	TABLE_NAME	COLUMN_NAME	DATA_TYPE	DATA_TYPE_MOD	DATA_TYPE_OWNER	DATA_LENGTH	DATA_PRECISION	DATA_SCALE	NULLABLE	COLUMN_ID	DEFAULT_LENGTH	DATA_DEFAULT	NUM_DISTI
SQL_PGTQVUECVKMZAMODIEEJMWVJJ	STUDENT	SIZEHS	NUMBER	-	-	22	-	0	Y	4	-	-	-
SQL_PGTQVUECVKMZAMODIEEJMWVJJ	STUDENT	SNAME	VARCHAR2	-	-	10	-	-	Y	2	-	-	-
SQL_PGTQVUECVKMZAMODIEEJMWVJJ	STUDENT	DOB	DATE	-	-	7	-	-	Y	5	-	-	-
SQL_PGTQVUECVKMZAMODIEEJMWVJJ	STUDENT	SID	NUMBER	-	-	22	-	0	Y	1	-	-	-
SQL_PGTQVUECVKMZAMODIEEJMWVJJ	STUDENT	GPA	NUMBER	-	-	22	2	1	Y	3	-	-	-

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```
1  /* 14. Display the details of all students. */
2
3  SELECT * FROM STUDENT;
4
```

SID	SNAME	GPA	SIZEHS	DOB
345	Craig	3.5	500	04-FEB-95
654	Amy	3.9	1000	26-MAY-96
123	Amy	3.9	1000	26-JUN-96
567	Edward	2.9	2000	21-DEC-96
234	Bob	3.6	1500	07-APR-95
456	Doris	3.9	1000	24-JUL-97
987	Helen	3.7	800	27-MAR-97
876	Irene	3.9	400	07-MAR-96
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
765	Jay	2.9	1500	08-AUG-98
543	Craig	3.4	2000	27-AUG-98

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```
1  /* 15. Display unique majors.*/
2
3  SELECT DISTINCT MAJOR FROM APPLY ;
4
5
```

MAJOR
marine biology
psychology
EE
biology
history
bioengineering
cs

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```
1   /* 16. List the student names those are having three characters in their Names. */
2
3   SELECT SNAME FROM STUDENT
4   WHERE LENGTH(SNAME) = 3;
5
6
7
8
9
```

SNAME
Bob
Amy
Fay
Jay
Amy

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SQL Worksheet   Clear   Find   Actions   Save   Run

```
1  /* 17. List the student names those are starting with 'H' and with five characters. */
2
3  SELECT SNAME FROM STUDENT
4  WHERE SNAME LIKE 'H____';
5
6
7
8
9
```

SNAME
Helen

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```
1   /* 18. List the student names those are having third character and fifth char. must be 'e'. */
2
3   SELECT SNAME FROM STUDENT
4   WHERE SNAME LIKE '__e_e%';
5
6
7
8
9
```

SNAME
Irene

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```
1  /* 19. List the student names ending with 'y'. */
2
3  SELECT SNAME FROM STUDENT
4  WHERE SNAME LIKE '__y%' OR SNAME LIKE '___y%';
5
6
7
8
9
```

SNAME
Amy
Fay
Gary
Jay
Amy

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```
1  /* 20. List the Students in the order of their GPA. */
2
3  SELECT SNAME FROM STUDENT
4  ORDER BY GPA;
5
```

SNAME
Jay
Edward
Craig
Gary
Craig
Bob
Helen
Fay
Irene
Amy
Amy
Doris

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```
1  /* 21. List the details of the students in order of the ascending of GPA and descending of DoB. */
2
3  SELECT * FROM STUDENT ORDER BY GPA , DOB DESC;
4  |
```

SID	SNAME	GPA	SIZEHS	DOB
765	Jay	2.9	1500	08-AUG-98
567	Edward	2.9	2000	21-DEC-96
543	Craig	3.4	2000	27-AUG-98
789	Gary	3.4	800	08-OCT-96
345	Craig	3.5	500	04-FEB-95
234	Bob	3.6	1500	07-APR-95
987	Helen	3.7	800	27-MAR-97
678	Fay	3.8	200	27-AUG-96
456	Doris	3.9	1000	24-JUL-97
123	Amy	3.9	1000	26-JUN-96
654	Amy	3.9	1000	26-MAY-96
876	Irene	3.9	400	07-MAR-96

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```sql
/* 22. List the sIDs of student who apply in either 'Stanford', 'Cornell' or 'MIT' college. */

SELECT SID FROM APPLY
WHERE CNAME IN ('Stanford','Cornell','MIT');
```

SID
123
123
345
345
345
345
678
987
876
876
876
765
765
543

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```
1  /* 23. Delete all applications filled at Stanford (Choose table wisely) */
2
3  DELETE FROM APPLY WHERE CNAME='Stanford';
4  SELECT * FROM APPLY;
```

SID	CNAME	MAJOR	DECISION
123	Berkeley	CS	Y
123	Cornell	EE	Y
234	Berkeley	biology	N
345	MIT	bioengineering	Y
345	Cornell	bioengineering	N
345	Cornell	CS	Y
345	Cornell	EE	N
987	Berkeley	CS	Y
876	MIT	biology	Y
876	MIT	marine biology	N
765	Cornell	history	N
765	Cornell	psychology	Y
543	MIT	CS	N

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```
 1   /* 24. Delete the college Stanford from college table. */
 2
 3   DELETE FROM COLLEGE WHERE CNAME='Stanford';
 4
 5   SELECT * FROM COLLEGE;
 6
 7
 8
 9
10
11   |
12
13
14
```

CNAME	STATE	ENROLLMENT
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

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```sql
1  /* 25. Modify the GPA of all students by giving 10% raise in their GPA. */
2
3  UPDATE STUDENT SET GPA =(GPA + GPA/10);
4
5  SELECT SNAME,GPA FROM STUDENT;
```

SNAME	GPA
Bob	4
Amy	4.3
Craig	3.9
Doris	4.3
Edward	3.2
Fay	4.2
Gary	3.7
Helen	4.1
Irene	4.3
Jay	3.2
Amy	4.3
Craig	3.7

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```sql
1  /* 26. Increment the GPA of the students by 1.5 whose GPA is less than 3.5 and belong to High School having size greater than 1500 */
2
3  UPDATE STUDENT
4  SET GPA =(GPA+1.5)
5  WHERE GPA < 3.5 AND SIZEHS >1500;
6  SELECT * FROM STUDENT;
7
```

1 row(s) updated.

SID	SNAME	GPA	SIZEHS	DOB
234	Bob	4	1500	07-APR-95
123	Amy	4.3	1000	26-JUN-96
345	Craig	3.9	500	04-FEB-95
456	Doris	4.3	1000	24-JUL-97
567	Edward	4.7	2000	21-DEC-96
678	Fay	4.2	200	27-AUG-96
789	Gary	3.7	800	08-OCT-96
987	Helen	4.1	800	27-MAR-97
876	Irene	4.3	400	07-MAR-96

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```
1  /* 27. Delete the students who have scored less than 3.2 GPA. */
2
3  DELETE FROM STUDENT WHERE GPA < 3.2;
4  SELECT * FROM STUDENT;
```

SID	SNAME	GPA	SIZEHS	DOB
234	Bob	4	1500	07-APR-95
123	Amy	4.3	1000	26-JUN-96
345	Craig	3.9	500	04-FEB-95
456	Doris	4.3	1000	24-JUL-97
567	Edward	4.7	2000	21-DEC-96
678	Fay	4.2	200	27-AUG-96
789	Gary	3.7	800	08-OCT-96
987	Helen	4.1	800	27-MAR-97
876	Irene	4.3	400	07-MAR-96
765	Jay	3.2	1500	08-AUG-98
654	Amy	4.3	1000	26-MAY-96
543	Craig	3.7	2000	27-AUG-98

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```
1  CREATE TABLE College
2  (
3  cName varchar2 (10),
4  state varchar2 (10),
5  enrollment int
6  );
7
```

SQL Statement Output

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```
1   CREATE TABLE DEPT
2   (
3   Deptno INT,
4   Dname VARCHAR(20),
5   loc VARCHAR(20)
6   );
7
8   INSERT INTO DEPT  VALUES(1, 'ACCOUNTING', 'ST LOUIS');
9   INSERT INTO DEPT  VALUES(2, 'RESEARCH', 'NEW YORK');
10  INSERT INTO DEPT  VALUES(3, 'SALES', 'ATLANTA');
11  INSERT INTO DEPT  VALUES(4, 'OPERATIONS', 'SEATTLE');
12
13  SELECT * FROM DEPT
```

DEPTNO	DNAME	LOC
1	ACCOUNTING	ST LOUIS
2	RESEARCH	NEW YORK
3	SALES	ATLANTA
4	OPERATIONS	SEATTLE

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*Solve the following queries:

CREATING TABLE DEPT AND EMPLOYEE

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```
1  /* Q1. Employee Name and Hire Date sorted by Hire Date (Recent to Old). */
2
3  SELECT ENAME , HIREDATE  FROM EMPLOYEE
4  ORDER BY HIREDATE DESC;
```

ENAME	HIREDATE
POLK	9/22/1997
FILLMORE	8/9/1994
LINCOLN	6/23/1994
GARFIELD	5/1/1993
HOOVER	4/2/1990
WASHINGTON	4/16/1998
GRANT	3/30/1997
HANCOCK	3/2/1990
ADAMS	3/15/1996
HARDING	2/2/1998
MONROE	12/3/2000
JOHNSON	12/17/1990
ROOSEVELT	10/12/1995
TAFT	1/2/1996
JACKSON	1/1/1990

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```sql
1  /* Q2. Employee Name and Job sorted by Job (Alphabetically) */
2
3  SELECT ENAME , JOB FROM EMPLOYEE ORDER BY JOB;
4
```

ENAME	JOB
JOHNSON	ADMIN
WASHINGTON	ADMIN
JACKSON	CEO
ROOSEVELT	CPA
GRANT	ENGINEER
MONROE	ENGINEER
ADAMS	ENGINEER
FILLMORE	MANAGER
HARDING	MANAGER
GARFIELD	MANAGER
HANCOCK	SALES I
HOOVER	SALES I
TAFT	SALES I
POLK	TECH

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```
1   /* Q3. Employee Name and Job for all Engineers, sorted by Employee Name Alphabetically */
2
3   SELECT ENAME , JOB
4   from EMPLOYEE
5   WHERE JOB='ENGINEER'
6   ORDER BY ENAME;
7
8
9
```

ENAME	JOB
ADAMS	ENGINEER
GRANT	ENGINEER
MONROE	ENGINEER

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```
1   /* Q4. Job, Employee Name, Salary and Commission for employees with salary over 50000 sorted by Salary (Largest to Smallest) */
2
3   SELECT JOB,ENAME,SAL,COMM FROM EMPLOYEE
4   WHERE SAL > 50000
5   ORDER BY SAL DESC;
6
7
8
```

JOB	ENAME	SAL	COMM
CEO	JACKSON	75000	-
MANAGER	FILLMORE	56000	-
MANAGER	GARFIELD	54000	-
MANAGER	HARDING	52000	300

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```
1   /* Q5. Job, Employee Name, Salary and Commission for employees with a Commission sorted by Salary (Largest to Smallest).*/
2
3   SELECT JOB,ENAME,SAL,COMM FROM EMPLOYEE
4   ORDER BY SAL DESC;
5
```

JOB	ENAME	SAL	COMM
CEO	JACKSON	75000	-
MANAGER	FILLMORE	56000	-
MANAGER	GARFIELD	54000	-
MANAGER	HARDING	52000	300
CPA	ROOSEVELT	35000	-
ENGINEER	ADAMS	34000	-
ENGINEER	GRANT	32000	-
ENGINEER	MONROE	30000	-
SALES I	HANCOCK	27500	-
SALES I	HOOVER	27000	-
TECH	POLK	25000	-
SALES I	TAFT	25000	500
TECH	LINCOLN	22500	1400
ADMIN	WASHINGTON	18000	-

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```
1   /* Q6. Job, Employee Name, Salary and Commission for employees whose name starts with the letter H */
2
3   SELECT JOB,ENAME,SAL,COMM FROM EMPLOYEE
4   WHERE ENAME LIKE 'H%';
5
```

JOB	ENAME	SAL	COMM
MANAGER	HARDING	52000	300
SALES I	HOOVER	27000	-
SALES I	HANCOCK	27500	-

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```
 1  /* Q7. Job, Employee Name, Salary and Commission for employees whose
 2  name starts with the letter H and who do not get commission */
 3
 4
 5
 6  SELECT JOB,ENAME,SAL,COMM FROM EMPLOYEE
 7  WHERE ENAME LIKE 'H%' AND COMM IS NULL ;
 8
 9  |
10
11
12
13
```

JOB	ENAME	SAL	COMM
SALES I	HOOVER	27000	-
SALES I	HANCOCK	27500	-

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```
1   /* Q8. Job, Employee Name for employees in Dept No. 3. */
2
3
4
5   SELECT JOB,ENAME FROM EMPLOYEE
6   WHERE DEPT = 3 ;
7
8   |
9
10
11
12
13
```

JOB	ENAME
MANAGER	HARDING
SALES I	TAFT
SALES I	HOOVER
SALES I	HANCOCK

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```
 1   /* Q9. Dept Name and Loc for employees in Dept No. 3. */
 2
 3   SELECT DNAME,LOC FROM DEPT
 4   WHERE DEPTNO = 3 ;
 5
 6   |
 7
 8
 9
10
11
12
13
```

DNAME	LOC
SALES	ATLANTA

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Schema

```
1  /* Q10. Job, Employee Name, Dept, Salary sorted first by Dept (Smallest to
2  Largest) and then Salary (Largest to Smallest) */
3
4
5  SELECT JOB,ENAME,DEPT,SAL FROM EMPLOYEE
6  ORDER BY DEPT,SAL DESC ;
```

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JOB	ENAME	DEPT	SAL
CPA	ROOSEVELT	1	35000
MANAGER	FILLMORE	2	56000
ENGINEER	ADAMS	2	34000
ENGINEER	GRANT	2	32000
ENGINEER	MONROE	2	30000
MANAGER	HARDING	3	52000
SALES I	HANCOCK	3	27500
SALES I	HOOVER	3	27000
SALES I	TAFT	3	25000
CEO	JACKSON	4	75000
MANAGER	GARFIELD	4	54000
TECH	POLK	4	25000

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