# Practical Assignment - 1

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Section: 2ACClass Roll No.: 28

### Q. Create the following tables and fill the given data in them:-

#### Table-1

#### **OUTPUT:**

MySQL Local: SELECT	Γ * FROM Co ×		••
cName	state	enrollment	
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	
MIT	MA	10000	
Stanford	CA	15000	
Cornell	NY	21000	
Berkeley	CA	36000	
Harvard	MA	50040	

#### Table -2

```
Create Table IF NOT EXISTS Student(
   sID INT PRIMARY KEY,
   sName VARCHAR(10),
   GPA FLOAT,
   sizeHS INT NOT NULL,
   Dob Date
);
INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('123', 'Amy', '3.9',
'1000', '1996-06-26');
INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('234', 'Bob', '3.6',
'1500', '1995-04-07');
INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('345', 'Craig', '3.5',
'500', '1995-02-04');
INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('456', 'Doris', '3.9',
'1000', '1997-07-24');
INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('567', 'Edward', '2.9',
'2000', '1996-12-21');
```

```
INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('678', 'Fay', '3.8',
'200', '1996-08-27');

INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('789', 'Gary', '3.4',
'800', '1996-10-08');

INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('987', 'Helen', '3.7',
'800', '1997-03-27');

INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('876', 'Irene', '3.9',
'400', '1996-03-07');

INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('765', 'Jay', '2.9',
'1500', '1998-08-08');

INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('654', 'Amy', '3.9',
'1000', '1996-05-26');

INSERT INTO Student(sID, sName, GPA, sizeHS, DoB) VALUES('543', 'Craig', '3.4',
'2000', '1998-08-27');

SELECT * FROM Student;
```

#### **OUTPUT:**

MySQL Local: SELEC	T * FROM St ×				
sID	sName	GPA	sizeHS	DoB	
abc Filter	a <mark>b</mark> c Filter	abc Filter	abc Filter	a <mark>b</mark> c Filter	
123	Amy	3.9000000953674316	1000	1996-06-26T00:00:00.000Z	
234	Bob	3.5999999046325684	1500	1995-04-07T00:00:00.000Z	
345	Craig	3.50000000000000004	500	1995-02-04T00:00:00.000Z	
456	Doris	3.9000000953674316	1000	1997-07-24T00:00:00.000Z	
543	Craig	3.4000000953674316	2000	1998-08-27T00:00:00.000Z	
567	Edward	2.9000000953674316	2000	1996-12-21T00:00:00.000Z	
654	Amy	3.9000000953674316	1000	1996-05-26T00:00:00.000Z	
678	Fay	3.799999952316284	200	1996-08-27T00:00:00.000Z	
765	Jay	2.9000000953674316	1500	1998-08-08T00:00:00.000Z	
789	Gary	3.4000000953674316	800	1996-10-08T00:00:00.000Z	
876	Irene	3.9000000953674316	400	1996-03-07T00:00:00.000Z	
987	Helen	3.7000000476837163	800	1997-03-27T00:00:00.000Z	

```
Create Table IF NOT EXISTS Apply(
   sID INT NOT NULL,
    cName VARCHAR(10),
    major VARCHAR(20),
    decision VARCHAR(1)
);
INSERT INTO Apply(sID, cName, major, decision) VALUES('123', 'Stanford', 'CS',
'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('123', 'Stanford', 'EE',
'N');
INSERT INTO Apply(sID, cName, major, decision) VALUES('123', 'Berkeley', 'CS',
'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('123', 'Cornell', 'EE',
'Y');
INSERT INTO Apply(SID, cName, major, decision) VALUES('234', 'Berkeley',
'biology', 'N');
INSERT INTO Apply(sID, cName, major, decision) VALUES('345', 'MIT',
'bioengineering', 'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('345', 'Cornell',
'bioengineering', 'N');
INSERT INTO Apply(SID, cName, major, decision) VALUES('345', 'Cornell', 'CS',
'Y');
INSERT INTO Apply(SID, cName, major, decision) VALUES('345', 'Cornell', 'EE',
'N');
INSERT INTO Apply(SID, cName, major, decision) VALUES('678', 'Stanford',
'history', 'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('987', 'Stanford', 'CS',
'Y');
```

```
INSERT INTO Apply(sID, cName, major, decision) VALUES('987', 'Berkeley', 'CS',
'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('876', 'Stanford', 'CS',
'N');
INSERT INTO Apply(sID, cName, major, decision) VALUES('876', 'MIT', 'biology',
'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('876', 'MIT', 'marine
biology', 'N');
INSERT INTO Apply(sID, cName, major, decision) VALUES('765', 'Stanford',
'history', 'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('765', 'Cornell',
'history', 'N');
INSERT INTO Apply(sID, cName, major, decision) VALUES('765', 'Cornell',
'psychology', 'Y');
INSERT INTO Apply(sID, cName, major, decision) VALUES('543', 'MIT', 'CS', 'N');
SELECT * FROM Apply;
```

#### OUTPUT:

· D				
sID	cName	major	decision	
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	abc Filter	abc Filter	
123	Stanford	CS		
123	Stanford	EE	N	
123	Berkeley	cs		
123	Cornell	EE	Υ	
234	Berkeley	biology	N	
345	MIT	bioengineering	Υ	
345	Cornell	bioengineering	N	
345	Cornell	cs	Υ	
345	Cornell	EE	N	
678	Stanford	history		
987	Stanford	cs		
987	Berkeley	cs		
876	Stanford	cs	N	
876	MIT	biology	Υ	
876	MIT	marine biology	N	
765	Stanford	history	Υ	
765	Cornell	history	N	
765	Cornell	psychology	Υ	
543	MIT	cs	N	

## Q. State of SQL \*PLUS Queries for each of the following:

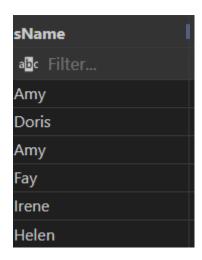
1. List the student name, dob from student table

SELECT sName, DoB FROM student;



2. List of the name of student scoring more than 3.7 in GPA.

SELECT sName FROM student WHERE GPA>3.7;



3. List the name of student whose High School size is atleast 1000 and born after 1996.

SELECT sName FROM student WHERE sizeHS >= 1000 AND DoB > '1996-12-31';

sName

abc Filter...

Doris

Craig

Jay

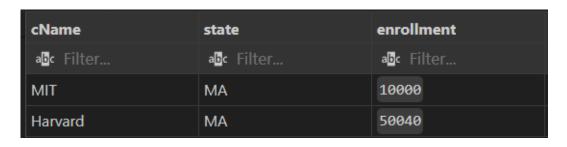
4. List the name of student who are scoring GPA between 2.9 and 3.9.

SELECT sName FROM student WHERE GPA >= 2.9 AND GPA <= 3.9;



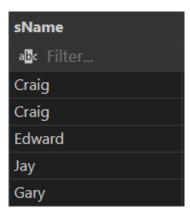
5. List all the details of colleges who are situated in MA

SELECT \* FROM college WHERE state = 'MA';



6. List the students who have scored more than 2.0 but less than 3.5.

SELECT sName FROM student WHERE GPA >= 2.0 AND GPA <= 3.5;



7. List the name of students who are born after 1 st Jul 1996 in the order of Date of Birth.

SELECT sName, DoB FROM student WHERE DoB > '1996-07-01' ORDER BY DoB ASC;

sName	DoB
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
Fay	1996-08-27T00:00:00.000Z
Gary	1996-10-08T00:00:00.000Z
Edward	1996-12-21T00:00:00.000Z
Helen	1997-03-27T00:00:00.000Z
Doris	1997-07-24T00:00:00.000Z
Jay	1998-08-08T00:00:00.000Z
Craig	1998-08-27T00:00:00.000Z

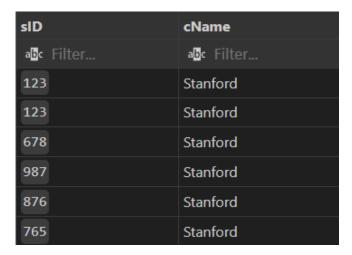
8. List the sID, cName, decision of applications that are accepted.

SELECT sID, cName, decision FROM apply WHERE decision = 'Y';

sID	cName	decision
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
123	Stanford	Υ
123	Berkeley	Υ
123	Cornell	Υ
345	MIT	Υ
345	Cornell	Υ
678	Stanford	Υ
987	Stanford	Υ
987	Berkeley	Υ
876	MIT	Υ
765	Stanford	Υ
765	Cornell	Υ

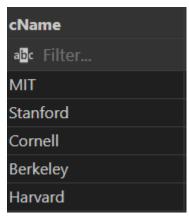
9. List the sID, cName of applications that are filed at Stanford.

SELECT sID, cName FROM apply WHERE cName = 'Stanford';



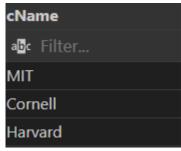
10. List all the colleges that has enrollment greater than 1000.

SELECT cName FROM college WHERE enrollment > '1000';



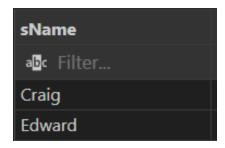
11. List the colleges not in California.

SELECT cName FROM college WHERE state != 'CA';



12. List names of all students who came from high school having size greater than 1700 and scored GPA less than 3.8.

SELECT sName FROM student WHERE sizeHS > '1700' AND GPA < 3.8;



13. Display the description of student table.

# DESCRIBE student;

Field	Туре	Null	Key	Default	Extra
abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <b>b</b> c Filter	a <mark>b</mark> c Filter
sID	int	NO	PRI	NULL	
sName	varchar(10)	YES		NULL	
GPA	float	YES		NULL	
sizeHS	int	NO		NULL	
DoB	date	YES		NULL	

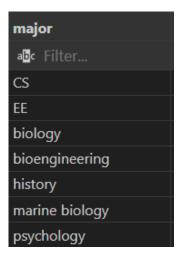
14. Display the details of all students.

## SELECT \* FROM student;

sID	sName	GPA	sizeHS	DoB
a <mark>b</mark> c Filter				
123	Amy	3.9000000953674316	1000	1996-06-26T00:00:00.000Z
234	Bob	3.5999999046325684	1500	1995-04-07T00:00:00.000Z
345	Craig	3.500000000000000004	500	1995-02-04T00:00:00.000Z
456	Doris	3.9000000953674316	1000	1997-07-24T00:00:00.000Z
543	Craig	3.4000000953674316	2000	1998-08-27T00:00:00.000Z
567	Edward	2.9000000953674316	2000	1996-12-21T00:00:00.000Z
654	Amy	3.9000000953674316	1000	1996-05-26T00:00:00.000Z
678	Fay	3.799999952316284	200	1996-08-27T00:00:00.000Z
765	Jay	2.9000000953674316	1500	1998-08-08T00:00:00.000Z
789	Gary	3.4000000953674316	800	1996-10-08T00:00:00.000Z
876	Irene	3.9000000953674316	400	1996-03-07T00:00:00.000Z
987	Helen	3.7000000476837163	800	1997-03-27T00:00:00.000Z

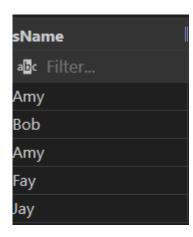
15. Display unique majors.

SELECT DISTINCT major FROM apply;



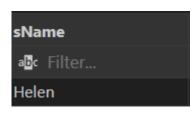
16. List the student names those are having three characters in their Names

SELECT sName FROM student WHERE CHAR\_LENGTH(sName) = 3;



17. List the student names those are starting with 'H' and with five characters.

SELECT sName FROM student WHERE sName LIKE 'H%' AND CHAR\_LENGTH(sName)=5;



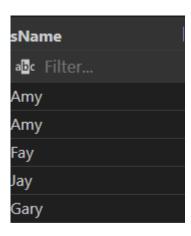
18. List the student names that are having third character and fifth character must be 'e'.

```
SELECT sName FROM student WHERE CHAR_LENGTH(sName) >= 5 AND SUBSTRING(sName, 3,
1) = 'e' AND SUBSTRING(sName, 5, 1) = 'e';
```



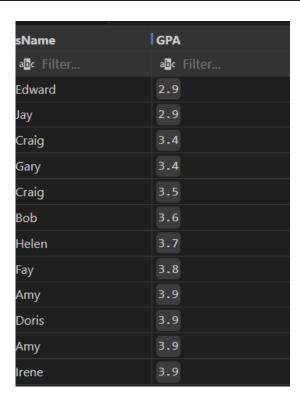
19. List the student names ending with 'Y'

SELECT sName FROM student WHERE RIGHT(sName , 1) = 'Y';



20. List the students in the order of their GPA.

SELECT sName, GPA FROM student ORDER BY GPA ASC;



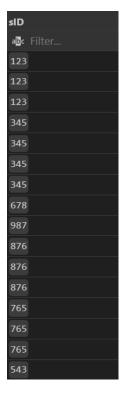
21. List the details of students in order of the ascending of GPA and descending of DoB.

SELECT \* FROM student ORDER BY GPA ASC , DoB DESC;

sID	sName	GPA	sizeHS	DoB
abc Filter	abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
765	Jay	2.9	1500	1998-08-08
567	Edward	2.9	2000	1996-12-21
543	Craig	3.4	2000	1998-08-27
789	Gary	3.4	800	1996-10-08
345	Craig	3.5	500	1995-02-04
234	Bob	3.6	1500	1995-04-07
987	Helen	3.7	800	1997-03-27
678	Fay	3.8	200	1996-08-27
456	Doris	3.9	1000	1997-07-24
123	Amy	3.9	1000	1996-06-26
654	Amy	3.9	1000	1996-05-26
876	Irene	3.9	400	1996-03-07

22. List the sIDs of students who apply in either 'Stanford', 'Cornell' or 'MIT' college.

SELECT sID FROM apply WHERE cName IN ('Stanford', 'Cornell', 'MIT');



23. Delete all applications filed at Stanford.

```
DELETE FROM apply WHERE cName = 'Stanford';
SELECT * FROM apply;
```

sID	cName	major	decision
a <mark>b</mark> c Filter			
123	Berkeley	CS	Υ
123	Cornell	EE	Υ
234	Berkeley	biology	N
345	MIT	bioengineering	Υ
345	Cornell	bioengineering	N
345	Cornell	CS	Υ
345	Cornell	EE	N
987	Berkeley	CS	Υ
876	MIT	biology	Υ
876	MIT	marine biology	N
765	Cornell	history	N
765	Cornell	psychology	Υ
543	MIT	CS	N

24. Modify the GPA of all students by giving 10% raise in GPA.

```
UPDATE student SET GPA = GPA + (0.10*GPA);
SELECT * FROM student;
```

sID	sName	GPA	sizeHS	DoB
abc Filter	abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
123	Amy	4.29	1000	1996-06-26
234	Bob	3.96	1500	1995-04-07
345	Craig	3.85	500	1995-02-04
456	Doris	4.29	1000	1997-07-24
543	Craig	3.74	2000	1998-08-27
567	Edward	3.19	2000	1996-12-21
654	Amy	4.29	1000	1996-05-26
678	Fay	4.18	200	1996-08-27
765	Jay	3.19	1500	1998-08-08
789	Gary	3.74	800	1996-10-08
876	Irene	4.29	400	1996-03-07
987	Helen	4.07	800	1997-03-27

25. Delete the college Stanford from the table.

DELETE FROM college WHERE cName = 'Stanford';

26. Increment the GPA of students by 1.5 whose GPA is less than 3.5 and whose High School Size is greater than 1500.

Update student SET GPA = GPA + 1.5 WHERE GPA < 3.5 AND sizeHS > 1500; SELECT \* FROM student;

sID	sName	GPA	sizeHS	DoB
a <mark>b</mark> c Filter				
123	Amy	4.29	1000	1996-06-26
234	Bob	3.96	1500	1995-04-07
345	Craig	3.85	500	1995-02-04
456	Doris	4.29	1000	1997-07-24
543	Craig	3.74	2000	1998-08-27
567	Edward	4.69	2000	1996-12-21
654	Amy	4.29	1000	1996-05-26
678	Fay	4.18	200	1996-08-27
765	Jay	3.19	1500	1998-08-08
789	Gary	3.74	800	1996-10-08
876	Irene	4.29	400	1996-03-07
987	Helen	4.07	800	1997-03-27

27. Delete the students who have scored less than 3.2 GPA.

```
DELETE * FROM student WHERE GPA < 3.2;
SELECT * FROM student;
```

#### **Exercise:**

- Q. Determine the appropriate datatype:
  - Deptno INT
  - Dname VARCHAR(255)
  - Loc VARCHAR(255)

```
CREATE TABLE IF NOT EXISTS Dept(
    deptno INT PRIMARY KEY,
    dname VARCHAR(255),
    loc VARCHAR(255)
);

INSERT INTO Dept(deptno, dname, loc) VALUES('1', 'ACCOUNTING', 'ST LOUIS');

INSERT INTO Dept(deptno, dname, loc) VALUES('2', 'RESEARCH', 'NEW YORK');

INSERT INTO Dept(deptno, dname, loc) VALUES('3', 'SALES', 'ATLANTA');

INSERT INTO Dept(deptno, dname, loc) VALUES('4', 'OPERATIONS', 'SEATTLE');

SELECT * FROM Dept;
```

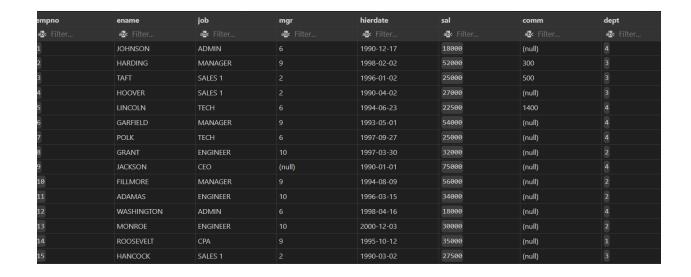
deptno	dname	loc
abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
1	ACCOUNTING	ST LOUIS
2	RESEARCH	NEW YORK
3	SALES	ATLANTA
4	OPERATIONS	SEATTLE

#### Q. Determine the appropriate datatype:

- empno INT
- ename VARCHAR(255)
- job VARCHAR(255)
- mgr VARCHAR(255)
- hiredate DATE
- sal INT
- comm VARCHAAR(255)
- dept INT

```
CREATE TABLE IF NOT EXISTS Employee(
    empno INT PRIMARY KEY,
    ename VARCHAR(255),
    job VARCHAR(255),
    mgr VARCHAR(255),
    hierdate DATE,
    sal INT NOT NULL,
    comm VARCHAR(255),
    dept INT NOT NULL
);
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('1', 'JOHNSON', 'ADMIN', '6', '1990-12-17', '18000', '(null)', '4');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('2', 'HARDING', 'MANAGER', '9', '1998-02-02', '52000', '300', '3');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('3', 'TAFT', 'SALES 1', '2', '1996-01-02', '25000', '500', '3');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('4', 'HOOVER', 'SALES 1', '2', '1990-04-02', '27000', '(null)', '3');
```

```
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('5', 'LINCOLN', 'TECH', '6', '1994-06-23', '22500', '1400', '4');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('6', 'GARFIELD', 'MANAGER', '9', '1993-05-01', '54000', '(null)', '4');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('7', 'POLK', 'TECH', '6', '1997-09-27', '25000', '(null)', '4');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('8', 'GRANT', 'ENGINEER', '10', '1997-03-30', '32000', '(null)', '2');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('9', 'JACKSON', 'CEO', '(null)', '1990-01-01', '75000', '(null)', '4');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('10', 'FILLMORE', 'MANAGER', '9', '1994-08-09', '56000', '(null)', '2');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('11', 'ADAMAS', 'ENGINEER', '10', '1996-03-15', '34000', '(null)', '2');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('12', 'WASHINGTON', 'ADMIN', '6', '1998-04-16', '18000', '(null)', '4');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('13', 'MONROE', 'ENGINEER', '10', '2000-12-03', '30000', '(null)', '2');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('14', 'ROOSEVELT', 'CPA', '9', '1995-10-12', '35000', '(null)', '1');
INSERT INTO Employee(empno, ename, job, mgr, hierdate, sal, comm, dept) VALUES
('15', 'HANCOCK', 'SALES 1', '2', '1990-03-02', '27500', '(null)', '3');
SELECT * FROM employee;
```



# Solve the following queries:

Q1. Employee Name and Hire Date sorted by Hire Date(Recent to Old).

SELECT ename, hierdate FROM employee ORDER BY hierdate DESC;

ename	hierdate
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
MONROE	2000-12-03
Washington	1998-04-16
HARDING	1998-02-02
POLK	1997-09-27
GRANT	1997-03-30
ADAMAS	1996-03-15
TAFT	1996-01-02
ROOSEVELT	1995-10-12
FILLMORE	1994-08-09
LINCOLN	1994-06-23
GARFIELD	1993-05-01
JOHNSON	1990-12-17
HOOVER	1990-04-02
HANCOCK	1990-03-02
Jackson	1990-01-01

Q2. Employee Name and Job sorted by Job(Alphabetically).

### SELECT ename, job FROM employee ORDER BY job ASC;

ename	job
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
JOHNSON	ADMIN
Washington	ADMIN
Jackson	CEO
ROOSEVELT	CPA
GRANT	ENGINEER
ADAMAS	ENGINEER
MONROE	ENGINEER
HARDING	MANAGER
GARFIELD	MANAGER
FILLMORE	MANAGER
TAFT	SALES 1
HOOVER	SALES 1
HANCOCK	SALES 1
LINCOLN	TECH
POLK	TECH

Q3. Employee Name and Job for all Engineers, sorted by Employee Name Alphabetically.

# SELECT ename, job FROM employee ORDER BY ename ASC;

ename	job
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
ADAMAS	ENGINEER
FILLMORE	MANAGER
GARFIELD	MANAGER
GRANT	ENGINEER
HANCOCK	SALES 1
HARDING	MANAGER
HOOVER	SALES 1
JACKSON	CEO
JOHNSON	ADMIN
LINCOLN	TECH
MONROE	ENGINEER
POLK	TECH
ROOSEVELT	CPA
TAFT	SALES 1
WASHINGTON	ADMIN

Q4. Job, Employee Name, Salary and Commission for employees with salary over 50000 sorted by Salary (Largest to Smallest).

SELECT job,ename,sal,comm FROM employee WHERE sal > '50000' ORDER BY sal DESC;

job	ename	sal	comm
abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
CEO	JACKSON	75000	(null)
MANAGER	FILLMORE	56000	(null)
MANAGER	GARFIELD	54000	(null)
MANAGER	HARDING	52000	300

Q5. Job, Employee Name, Salary and Commission for employees with a Commission sorted by Salary (Largest to Smallest).

SELECT job,ename,sal,comm FROM employee WHERE comm != '(null)' ORDER BY sal DESC;

job	ename	sal	comm
abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
MANAGER	HARDING	52000	300
SALES 1	TAFT	25000	500
TECH	LINCOLN	22500	1400

Q6. Job, Employee Name, Salary and Commission for employees whose name starts with the letter 'H'.

SELECT job,ename,sal,comm FROM employee WHERE SUBSTRING(ename, 1, 1) = 'H';

job	ename	sal	comm
abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
MANAGER	HARDING	52000	300
SALES 1	HOOVER	27000	(null)
SALES 1	HANCOCK	27500	(null)

Q7. Job, Employee Name, Salary and Commission for employees whose name starts with the letter 'H' and who do not get any Commission.

SELECT job,ename,sal,comm FROM employee WHERE SUBSTRING(ename, 1, 1) = 'H' AND
comm = '(null)';

job	ename	sal	comm
abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
SALES 1	HOOVER	27000	(null)
SALES 1	HANCOCK	27500	(null)

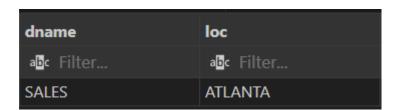
Q8. Job, Employee Name for employees in Dept No. 3.

SELECT job,ename FROM employee WHERE dept = '3';

job	ename
abc Filter	a <mark>b</mark> c Filter
MANAGER	HARDING
SALES 1	TAFT
SALES 1	HOOVER
SALES 1	HANCOCK

Q9. Dept Name and Loc for employees in Dept No. 3.

SELECT dname,loc FROM dept WHERE deptno = '3';



Q10. Job, Employee Name, Dept, Salary sorted first by Dept(Smallest to Largest) and then Salary(Largest to Smallest).

SELECT job,ename,dept,sal FROM employee ORDER BY dept ASC,sal DESC;

job	ename	dept	sal
abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
CPA	ROOSEVELT	1	35000
MANAGER	FILLMORE	2	56000
ENGINEER	ADAMAS	2	34000
ENGINEER	GRANT	2	32000
ENGINEER	MONROE	2	30000
MANAGER	HARDING	3	52000
SALES 1	HANCOCK	3	27500
SALES 1	HOOVER	3	27000
SALES 1	TAFT	3	25000
CEO	JACKSON	4	75000
MANAGER	GARFIELD	4	54000
TECH	POLK	4	25000
TECH	LINCOLN	4	22500
ADMIN	JOHNSON	4	18000
ADMIN	WASHINGTON	4	18000

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