

Views

-- Q1

```
CREATE OR REPLACE VIEW view1 AS
SELECT t1.ename, t2.cname, t2.salary, t2.jDate, t1.city, t3.cities
FROM employee t1, emp_company t2, company t3
WHERE t1.ename=t2.ename AND t2.cname=t3.cname AND t1.city=t3.cities;
```

```
SELECT * FROM view1;
```

-- Q2

-- View with single table is updateable. But the changes reflect on original table as well.

```
UPDATE view1 SET jdate='1999-12-10'
WHERE ename='anil';
```

```
SELECT * FROM view1;
```

-- Q3

```
CREATE OR REPLACE view v1 AS
SELECT ename, salary, cname FROM emp_company
WHERE cname='ACC';
```

-- Q4

```
INSERT INTO emp_company VALUES('Ashok', 'Acc', 1200, NULL);
```

-- Q5

```
SELECT * FROM v1;
```

-- Q6

```
CREATE OR REPLACE view v2 AS
SELECT ename, salary, cname FROM emp_company
WHERE cname='ACC'
WITH CHECK OPTION;
```

-- Q7

```
CREATE OR REPLACE VIEW view2 AS
SELECT cname, AVG(salary), MAX(salary), MIN(salary)
FROM emp_company
GROUP BY cname;
```

```
SELECT * FROM view2;
```

-- Q8

```
CREATE OR REPLACE VIEW view4 AS
SELECT CONCAT(ename,'-',cname) AS 'Employee Company_Name', salary
FROM emp_company WHERE jDate>'1998-02-01';
```

```
SELECT * FROM view4;
```

```
-- Q9
```

```
CREATE OR REPLACE VIEW view3 AS  
SELECT e.ename, c.salary, e.city  
FROM employee e, emp_company c  
WHERE e.ename=c.ename;
```

```
SELECT * FROM view3;
```

```
-- Q10
```

```
SELECT e.ename, e.salary  
FROM (SELECT ename, salary FROM emp_company ORDER BY salary DESC LIMIT 5) e;
```

```
-- Q11
```

```
SELECT * FROM emp_company  
ORDER BY jDate DESC LIMIT 5;
```

Outputs

```
mysql> source /Users/muhammadwaseem/Documents/GitHub/Undergraduate/LabSolutions/Semester-IV/DBMS/Ex5/views.sql
Query OK, 0 rows affected (0.00 sec)
```

ename	cname	salary	jDate	city	cities
anil	Acc	1500	1999-12-10	nagpur	nagpur
shankar	Tata	2000	1990-07-10	bombay	bombay
jaya	CMC	1800	1991-06-07	chennai	chennai
sunil	CMC	1700	1988-01-01	bombay	bombay

4 rows in set (0.00 sec)

```
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
```

ename	cname	salary	jDate	city	cities
anil	Acc	1500	1999-12-10	nagpur	nagpur
shankar	Tata	2000	1990-07-10	bombay	bombay
jaya	CMC	1800	1991-06-07	chennai	chennai
sunil	CMC	1700	1988-01-01	bombay	bombay

4 rows in set (0.00 sec)

```
Query OK, 0 rows affected (0.01 sec)
```

```
Query OK, 1 row affected (0.00 sec)
```

ename	salary	cname
anil	1500	Acc
amol	1000	Acc
suresh	8000	Acc
Ashok	1200	Acc
Ashok	1200	Acc
Ashok	1200	Acc
Ashok	1200	Acc
Ashok	1200	Acc
Ashok	1200	Acc

9 rows in set (0.00 sec)

```
Query OK, 0 rows affected (0.00 sec)
```

```
Query OK, 0 rows affected (0.00 sec)
```

cname	AVG(salary)	MAX(salary)	MIN(salary)
Acc	1966.6667	8000	1000
Tata	3333.3333	5000	2000
CMC	3833.3333	8000	1700
Hyundai Mobis	30000.0000	30000	30000

4 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Employee	Company_Name	salary
anil	Acc	1500
kiran	Hyundai Mobis	30000

2 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

ename	salary	city
anil	1500	nagpur
shankar	2000	bombay
jaya	1800	chennai
sunil	1700	bombay
vijay	5000	delhi
prakash	3000	calcutta
ajay	8000	nagpur
suresh	8000	NULL

8 rows in set (0.00 sec)

ename	salary
kiran	30000
ajay	8000
suresh	8000
vijay	5000
prakash	3000

5 rows in set (0.00 sec)

ename	Cname	Salary	Jdate
anil	Acc	1500	1999-12-10
kiran	Hyundai Mobis	30000	1998-12-18
ajay	CMC	8000	1995-04-30
amol	Acc	1000	1995-03-17
jaya	CMC	1800	1991-06-07

5 rows in set (0.00 sec)