

Lab 6

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.4066 seconds.)

```
CREATE TABLE SALESMAN (SALESMAN_ID INT(4), NAME VARCHAR(20), CITY VARCHAR(20), COMMISSION VARCHAR(20), PRIMARY KEY (SALESMAN_ID))
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3470 seconds.)

```
CREATE TABLE CUSTOMER (CUSTOMER_ID INT, CUST_NAME VARCHAR(20), CITY VARCHAR(20), GRADE INT, SALESMAN_ID INT, PRIMARY KEY (CUSTOMER_ID), foreign key(SALESMAN_ID) REFERENCES SALESMAN(SALESMAN_ID) ON DELETE SET NULL)
```
















[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.4008 seconds.)
















```
CREATE TABLE ORDERS (ORD_NO INT(5), PURCHASE_AMT FLOAT, ORD_DATE DATE, CUSTOMER_ID INT, SALESMAN_ID INT, PRIMARY KEY (ORD_NO), foreign key(CUSTOMER_ID) REFERENCES CUSTOMER(CUSTOMER_ID) ON DELETE CASCADE, foreign key(SALESMAN_ID) REFERENCES SALESMAN(SALESMAN_ID) ON DELETE CASCADE)
```

[Edit inline] [Edit] [Create PHP code]




SALESMAN:

			SALESMAN_ID	NAME	CITY	COMMISSION
<input type="checkbox"/>				1000	JOHN	BANGALORE 25 %
<input type="checkbox"/>				2000	RAVI	BANGALORE 20 %
<input type="checkbox"/>				3000	KUMAR	MYSORE 15 %
<input type="checkbox"/>				4000	SMITH	DELHI 30 %
<input type="checkbox"/>				5000	HARSHA	HYDERBAD 15 %

CUSTOMER:

				CUSTOMER_ID	CUST_NAME	CITY	GRADE	SALESMAN_ID
<input type="checkbox"/>				10	PREETHI	BANGALORE	100	1000
<input type="checkbox"/>				11	VIVEK	MANGALORE	300	1000
<input type="checkbox"/>				12	BHASKAR	CHENNAI	400	2000
<input type="checkbox"/>				13	CHETHAN	BANGALORE	200	2000
<input type="checkbox"/>				14	MAMATHA	BANGALORE	400	3000

ORDERS:

				ORD_NO	PURCHASE_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
<input type="checkbox"/>				50	5000	2017-05-04	10	1000
<input type="checkbox"/>				51	450	2017-01-20	10	2000
<input type="checkbox"/>				52	1000	2017-02-24	13	2000
<input type="checkbox"/>				53	3500	2017-04-13	14	3000
<input type="checkbox"/>				54	550	2017-03-09	12	2000

- Count the customers with grades above Bangalore's average.

✓ Showing rows 0 - 1 (2 total, Query took 0.0722 seconds.)

```
SELECT GRADE, COUNT(DISTINCT CUSTOMER_ID) FROM CUSTOMER GROUP BY GRADE HAVING GRADE > (SELECT AVG(GRADE) FROM CUSTOMER WHERE CITY='BANGALORE')
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

GRADE	COUNT(DISTINCT CUSTOMER_ID)
300	1
400	2

- Find the name and numbers of all salesmen who had more than one customer.

✓ Showing rows 0 - 1 (2 total, Query took 0.0468 seconds.)

```
SELECT SALESMAN_ID, NAME FROM SALESMAN A WHERE 1 < (SELECT COUNT(*) FROM CUSTOMER WHERE SALESMAN_ID=A.SALESMAN_ID)
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	SALESMAN_ID	NAME
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1000	JOHN
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2000	RAVI

- List all salesmen and indicate those who have and don't have customers in their cities (Use UNION OPERATION).

✓ Showing rows 0 - 8 (9 total, Query took 0.0911 seconds.)

```
SELECT SALESMAN.SALESMAN_ID, NAME, CUST_NAME, COMMISSION FROM SALESMAN, CUSTOMER WHERE SALESMAN.CITY = CUSTOMER.CITY UNION SELECT SALESMAN_ID, NAME, 'NO MATCH', COMMISSION FROM SALESMAN WHERE NOT CITY = ANY (SELECT CITY FROM CUSTOMER) ORDER BY 2 DESC
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

SALESMAN_ID	NAME	CUST_NAME	COMMISSION
4000	SMITH	NO MATCH	30 %
2000	RAVI	PREETHI	20 %
2000	RAVI	CHETHAN	20 %
2000	RAVI	MAMATHA	20 %
3000	KUMAR	NO MATCH	15 %
1000	JOHN	PREETHI	25 %
1000	JOHN	CHETHAN	25 %
1000	JOHN	MAMATHA	25 %
5000	HARSHA	NO MATCH	15 %

- Create a view that finds the salesman who has the customer with the highest order of a day.

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.1604 seconds.)

```
CREATE VIEW ELITSALESMAN AS SELECT B.ORD_DATE, A.SALESMAN_ID, A.NAME FROM SALESMAN A, ORDERS B WHERE A.SALESMAN_ID = B.SALESMAN_ID AND B.PURCHASE_AMT=(SELECT MAX(PURCHASE_AMT) FROM ORDERS C WHERE C.ORD_DATE = B.ORD_DATE)
```

[Edit inline] [Edit] [Create PHP code]

				ORD_DATE	SALESMAN_ID	NAME
<input type="checkbox"/>				2017-05-04	1000	JOHN
<input type="checkbox"/>				2017-01-20	2000	RAVI
<input type="checkbox"/>				2017-02-24	2000	RAVI
<input type="checkbox"/>				2017-04-13	3000	KUMAR
<input type="checkbox"/>				2017-03-09	2000	RAVI

- Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted.

✓ 1 row affected. (Query took 0.1591 seconds.)

```
DELETE FROM SALESMAN WHERE SALESMAN_ID=1000
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 3 (4 total, Query took 0.0025 seconds.)

```
select * from salesman
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

				SALESMAN_ID	NAME	CITY	COMMISSION
<input type="checkbox"/>				2000	RAVI	BANGALORE	20 %
<input type="checkbox"/>				3000	KUMAR	MYSORE	15 %
<input type="checkbox"/>				4000	SMITH	DELHI	30 %
<input type="checkbox"/>				5000	HARSHA	HYDERBAD	15 %