

## ASSESSMENT-3 INTRODUCTION TO DBMS

- Create database BUSINESS\_MANAGE\_DB and table named customer and salesman :

```
mysql> CREATE DATABASE BUSINESS_MANAGE_DB;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> USE BUSINESS_MANAGE_DB;  
Database changed
```

```
mysql> CREATE TABLE CUSTOMER(  
-> CUSTOMER_ID INT,  
-> CUSTOMER_NAME VARCHAR(255) NOT NULL,  
-> CITY VARCHAR(255) NOT NULL,  
-> GRADE INT NOT NULL,  
-> SALESMAN_ID INT,  
-> PRIMARY KEY(CUSTOMER_ID));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DESC CUSTOMER;
```

Field	Type	Null	Key	Default	Extra
CUSTOMER_ID	int	NO	PRI	NULL	
CUSTOMER_NAME	varchar(255)	NO		NULL	
CITY	varchar(255)	NO		NULL	
GRADE	int	NO		NULL	
SALESMAN_ID	int	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> CREATE TABLE SALESMAN(  
-> SALESMAN_ID INT PRIMARY KEY,  
-> SALESMAN_NAME VARCHAR(255) NOT NULL,  
-> CITY VARCHAR(255) NOT NULL,  
-> COMMISSION FLOAT NOT NULL);  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DESC SALESMAN;
```

Field	Type	Null	Key	Default	Extra
SALESMAN_ID	int	NO	PRI	NULL	
SALESMAN_NAME	varchar(255)	NO		NULL	
CITY	varchar(255)	NO		NULL	
COMMISSION	float	NO		NULL	

4 rows in set (0.00 sec)

```
mysql> INSERT INTO SALESMAN VALUES
-> (5001, 'JAMES HOOG', 'NEW YORK', 0.15),
-> (5002, 'NAIL KNITE', 'PARIS', 0.13),
-> (5005, 'PIT ALEX', 'LONDON', 0.11),
-> (5006, 'MC LYON', 'PARIS', 0.14),
-> (5007, 'PAUL ADAM', 'ROME', 0.13),
-> (5003, 'LAUSON HEN', 'SAN JOSE', 0.12);
```

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM SALESMAN;
```

SALESMAN_ID	SALESMAN_NAME	CITY	COMMISSION
5001	JAMES HOOG	NEW YORK	0.15
5002	NAIL KNITE	PARIS	0.13
5003	LAUSON HEN	SAN JOSE	0.12
5005	PIT ALEX	LONDON	0.11
5006	MC LYON	PARIS	0.14
5007	PAUL ADAM	ROME	0.13

6 rows in set (0.00 sec)

```
mysql> ALTER TABLE CUSTOMER
-> ADD CONSTRAINT FK_SALESMAN_ID
-> FOREIGN KEY(SALESMAN_ID)
-> REFERENCES SALESMAN(SALESMAN_ID);
```

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> DESC CUSTOMER;
```

Field	Type	Null	Key	Default	Extra
CUSTOMER_ID	int	NO	PRI	NULL	
CUSTOMER_NAME	varchar(255)	NO		NULL	
CITY	varchar(255)	NO		NULL	
GRADE	int	NO		NULL	
SALESMAN_ID	int	YES	MUL	NULL	

5 rows in set (0.00 sec)

```
mysql> INSERT INTO CUSTOMER VALUES
-> (3002,'NICK RIMANDO','NEW YORK',100,5001);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO CUSTOMER VALUES
-> (3007,'BRAD DAVIS','NEW YORK',200,5001);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO CUSTOMER VALUES
-> (3005,'GRAHAM ZUSI','CALIFORNIA',200,5002);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO CUSTOMER VALUES
-> (3008,'JULIAN GREEN','LONDON',300,5002);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO CUSTOMER VALUES
-> (3004,'FABIAN JOHNSON','PARIS',300,5006);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO CUSTOMER VALUES
-> (3009,'GEOFF CAMERON','BERLIN',100,5003);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM CUSTOMER;
```

CUSTOMER_ID	CUSTOMER_NAME	CITY	GRADE	SALESMAN_ID
3002	NICK RIMANDO	NEW YORK	100	5001
3004	FABIAN JOHNSON	PARIS	300	5006
3005	GRAHAM ZUSI	CALIFORNIA	200	5002
3007	BRAD DAVIS	NEW YORK	200	5001
3008	JULIAN GREEN	LONDON	300	5002
3009	GEOFF CAMERON	BERLIN	100	5003

6 rows in set (0.00 sec)

- Perform join operations:

```
mysql> SELECT CUSTOMER.CUSTOMER_NAME,  
-> CUSTOMER.CITY,  
-> SALESMAN.SALESMAN_NAME AS SALESMAN_NAME,  
-> SALESMAN.COMMISSION AS COMMISSION  
-> FROM CUSTOMER  
-> RIGHT JOIN SALESMAN  
-> ON CUSTOMER.SALESMAN_ID=SALESMAN.SALESMAN_ID;
```

CUSTOMER_NAME	CITY	SALESMAN_NAME	COMMISSION
NICK RIMANDO	NEW YORK	JAMES HOOG	0.15
BRAD DAVIS	NEW YORK	JAMES HOOG	0.15
GRAHAM ZUSI	CALIFORNIA	NAIL KNITE	0.13
JULIAN GREEN	LONDON	NAIL KNITE	0.13
GEOFF CAMERON	BERLIN	LAUSON HEN	0.12
NULL	NULL	PIT ALEX	0.11
FABIAN JOHNSON	PARIS	MC LYON	0.14
NULL	NULL	PAUL ADAM	0.13

8 rows in set (0.00 sec)