

SQL Exercise 01

Practical 01: Create following table using SQL statements.

Client Table		
Field Name	Data Type	Attributes
ClientNo	char(6)	Primary Key
Name	varchar(20)	Not Null
City	varchar(50)	Not Null
Pin	int	
Mobile	char(10)	

----- MySQL CommandLine -----

```
mysql> create table Client(
-> ClientNo varchar(6) primary key,
-> Name varchar(20) not null,
-> City varchar(50) not null,
-> Pin int,
-> Mobile char(10)
-> );
```

Query OK, 0 rows affected (0.03 sec)

Practical 02: Insert & display following data in Client table (made in practical 01) using SQL statements

Client Table				
ClientNo	Name	City	Pin	Mobile
C00001	Ivan Bayross	Bombay	400054	3456212343
C00002	Vandana Saitwal	Madras	780001	8976532322
C00003	Pramada Jaguste	Bombay	400007	9090898765
C00004	Ravi Shreedharan	Delhi	110020	8727121232
C00005	Rukmani	Kolkata	340003	2312376543
C00006	Pradeep Singhania	Jaipur	130102	1222132333
C00007	Geoge Paul	Kolkata	340010	3323211232
C00008	D Ravichandran	Bombay	400014	2212387896

----- MySQL CommandLine -----

```
mysql> insert into client values
-> ('C00001', 'Ivan Bayross', 'Bombay', 400054, '3456212343'),
-> ('C00002', 'Vandana Saitwal', 'Madras', 780001, '8976532322'),
-> ('C00003', 'Pramada Jaguste', 'Bombay', 400007, '9090898765'),
-> ('C00004', 'Ravi Shreedharan', 'Delhi', 110020, '8727121232'),
-> ('C00005', 'Rukmani', 'Kolkata', 340003, '2312376543'),
-> ('C00006', 'Pradeep Singhania', 'Jaipur', 130102, '1222132333'),
-> ('C00007', 'Geoge Paul', 'Kolkata', 340010, '3323211232'),
-> ('C00008', 'D Ravichandran', 'Bombay', 400014, '2212387896')
-> ;
```

Query OK, 8 rows affected (0.02 sec)

Records: 8 Duplicates: 0 Warnings: 0

```
mysql> select * from client;
```

ClientNo	Name	City	Pin	Mobile
C00001	Ivan Bayross	Bombay	400054	3456212343
C00002	Vandana Saitwal	Madras	780001	8976532322
C00003	Pramada Jaguste	Bombay	400007	9090898765
C00004	Ravi Shreedharan	Delhi	110020	8727121232
C00005	Rukmani	Kolkata	340003	2312376543
C00006	Pradeep Singhania	Jaipur	130102	1222132333
C00007	Geoge Paul	Kolkata	340010	3323211232
C00008	D Ravichandran	Bombay	400014	2212387896

8 rows in set (0.00 sec)

Practical 03: Display the name of those clients whose name contains 'van' (refer table 'Client' of Practical 02)

----- MySQL CommandLine -----
mysql> select * from client where name like '%van%';

ClientNo	Name	City	Pin	Mobile
C00001	Ivan Bayross	Bombay	400054	3456212343
C00002	Vandana Saitwal	Madras	780001	8976532322

2 rows in set (0.00 sec)

Practical 04: List records of all clients who are not from Bombay. (refer table 'Client' of Practical 02)

----- MySQL CommandLine -----
mysql> select * from client where not city='Bombay';

ClientNo	Name	City	Pin	Mobile
C00002	Vandana Saitwal	Madras	780001	8976532322
C00004	Ravi Shreedharan	Delhi	110020	8727121232
C00005	Rukmani	Kolkata	340003	2312376543
C00006	Pradeep Singhania	Jaipur	130102	1222132333
C00007	George Paul	Kolkata	340010	3323211232

5 rows in set (0.00 sec)

Practical 05: Display different cities. (refer table 'Client' of Practical 02)

----- MySQL CommandLine -----
mysql> select distinct city from client;

city
Bombay
Madras
Delhi
Kolkata
Jaipur

5 rows in set (0.00 sec)

Practical 06: Create a table 'Club' with proper integrity constraints and insert data as given below:

Coach_ID	Coach_Name	Age	Sport	DateOfApp	Pay	Gender
1	Karan	35	Karate	2019-03-27	10000	M
2	Ravina	35	Karate	2020-01-20	12000	F
3	Kamal	34	Squash	2020-02-19	20000	M
4	Tarun	33	Basket Ball	2020-01-01	15000	M
5	Sumera	36	Swimming	2020-01-12	7500	M
6	Anjani	37	Swimming	2020-02-24	8000	F
7	Shamima	37	Squash	2020-02-20	22000	F

8	Soumya	30	Karate	2020-02-22	11000	F
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MySQL CommandLine

```
mysql> create table club(
-> Coach_ID int primary key auto_increment,
-> Coach_Name char(50) not null,
-> Age int not null,
-> Sport char(20) not null,
-> DateOfApp date not null,
-> Pay int not null,
-> Gender char not null
-> );
```

Query OK, 0 rows affected (0.07 sec)

```
mysql> insert into club values
-> (1,'Karan',35,'Karate','2019-03-27',10000,'M'),
-> (2,'Ravina',35,'Karate','2020-01-20',12000,'F'),
-> (3,'Kamal',34,'Squash','2020-02-19',20000,'M'),
-> (4,'Tarun',33,'Basket Ball','2020-01-01',15000,'M'),
-> (5,'Sumera',36,'Swimming','2020-01-12',7500,'M'),
-> (6,'Anjani',37,'Swimming','2020-02-24',8000,'F'),
-> (7,'Shamima',37,'Squash','2020-02-20',22000,'F'),
-> (8,'Soumya',30,'Karate','2020-02-22',11000,'F');
```

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

```
mysql> select * from client;
```

ClientNo	Name	City	Pin	Mobile
C00001	Ivan Bayross	Bombay	400054	3456212343
C00002	Vandana Saitwal	Madras	780001	8976532322
C00003	Pramada Jaguste	Bombay	400007	9090898765
C00004	Ravi Shreedharan	Delhi	110020	8727121232
C00005	Rukmani	Kolkata	340003	2312376543
C00006	Pradeep Singhania	Jaipur	130102	1222132333
C00007	Geoge Paul	Kolkata	340010	3323211232
C00008	D Ravichandran	Bombay	400014	2212387896

8 rows in set (0.00 sec)

Practical 07: Display information about coaches whose name start with K or pay is at least 1500 or both.
(refer table 'Club' of Practical 06)

MySQL CommandLine

```
mysql> select * from club where Coach_Name like 'K%' or Pay >=1500;
```

Coach_ID	Coach_Name	Age	Sport	DateOfApp	Pay	Gender
1	Karan	35	Karate	2019-03-27	10000	M
2	Ravina	35	Karate	2020-01-20	12000	F
3	Kamal	34	Squash	2020-02-19	20000	M
4	Tarun	33	Basket Ball	2020-01-01	15000	M
5	Sumera	36	Swimming	2020-01-12	7500	M
6	Anjani	37	Swimming	2020-02-24	8000	F
7	Shamima	37	Squash	2020-02-20	22000	F
8	Soumya	30	Karate	2020-02-22	11000	F

8 rows in set (0.00 sec)

Practical 08: Write a query to display report showing Coach_Name, Pay, Age and Bonus(15% of Pay) for all coaches.
(refer table 'Club' of Practical 06)

----- MySQL CommandLine -----
mysql> select Coach_Name, Pay, Age, (Pay*15/100) as Bonus from club;

Coach_Name	Pay	Age	Bonus
Karan	10000	35	1500.0000
Ravina	12000	35	1800.0000
Kamal	20000	34	3000.0000
Tarun	15000	33	2250.0000
Sumera	7500	36	1125.0000
Anjani	8000	37	1200.0000
Shamima	22000	37	3300.0000
Soumya	11000	30	1650.0000

8 rows in set (0.00 sec)

----- MySQL CommandLine -----
Practical 09: Display information about all male coaches. (refer table 'Club' of Practical 06)

mysql> select * from Club where Gender='M';

Coach_ID	Coach_Name	Age	Sport	DateOfApp	Pay	Gender
1	Karan	35	Karate	2019-03-27	10000	M
3	Kamal	34	Squash	2020-02-19	20000	M
4	Tarun	33	Basket Ball	2020-01-01	15000	M
5	Sumera	36	Swimming	2020-01-12	7500	M

4 rows in set (0.00 sec)

----- MySQL CommandLine -----
Practical 10: Write a command to display the output as. (refer table 'Club' of Practical 06)

```
+-----+
| Karan |
| Tarun |
| Anjani |
| Soumya |
+-----+
```