Q1. Create Table name as Player with column id, name, run and age and perform following operation on table

```
mysql> create table Player(id int(15),name varchar(255), age int(3));
Query OK, 0 rows affected, 2 warnings (0.03 sec)
```

a.   Add new column address using alter command

```
mysql> alter table Player add address varchar(256);
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc Player;
+---------+--------------+------+-----+---------+-------+
| Field   | Type         | Null | Key | Default | Extra |
+---------+--------------+------+-----+---------+-------+
| id      | int          | YES  |     | NULL    |       |
| name    | varchar(255) | YES  |     | NULL    |       |
| age     | int          | YES  |     | NULL    |       |
| address | varchar(256) | YES  |     | NULL    |       |
+---------+--------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

```
mysql> alter table Player drop column address;
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> alter table Player add address varchar(255) after name;
Query OK, 0 rows affected (0.00 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc Player;
+---------+--------------+------+-----+---------+-------+
| Field   | Type         | Null | Key | Default | Extra |
+---------+--------------+------+-----+---------+-------+
| id      | int          | YES  |     | NULL    |       |
| name    | varchar(255) | YES  |     | NULL    |       |
| address | varchar(255) | YES  |     | NULL    |       |
| age     | int          | YES  |     | NULL    |       |
+---------+--------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

b.   Change run column name to total run

```
mysql> alter table Player add run int(3);
Query OK, 0 rows affected, 1 warning (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 1

mysql> desc Player;
+---------+--------------+------+-----+---------+-------+
| Field   | Type         | Null | Key | Default | Extra |
+---------+--------------+------+-----+---------+-------+
| id      | int          | YES  |     | NULL    |       |
| name    | varchar(255) | YES  |     | NULL    |       |
| address | varchar(255) | YES  |     | NULL    |       |
| age     | int          | YES  |     | NULL    |       |
| run     | int          | YES  |     | NULL    |       |
+---------+--------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
mysql> alter table Player rename column run to totalrun
    -> ;
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Q2. Insert 10 records in the Player table.

```
mysql> insert into Player values (1,"aditya","pune",21,96);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Player values (2,"ACER","Mumbai",18,150), (3,"HP","Delhi",23,45), (4,"ASUS
","MH",29,87), (5,"OnePlus","Pune",35,145);
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from Player;
+------+---------+--------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+--------+------+----------+
|    1 | aditya  | pune   |   21 |       96 |
|    2 | ACER    | Mumbai |   18 |      150 |
|    3 | HP      | Delhi  |   23 |       45 |
|    4 | ASUS    | MH     |   29 |       87 |
|    5 | OnePlus | Pune   |   35 |      145 |
+------+---------+--------+------+----------+
5 rows in set (0.00 sec)
```

Q3. Select all records of player.

```
mysql> select * from Player;
+------+---------+---------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+---------+------+----------+
|    1 | aditya  | pune    |   21 |       96 |
|    2 | ACER    | Mumbai  |   18 |      150 |
|    3 | HP      | Delhi   |   23 |       45 |
|    4 | ASUS    | MH      |   29 |       87 |
|    5 | OnePlus | Pune    |   35 |      145 |
+------+---------+---------+------+----------+
5 rows in set (0.00 sec)
```

Q4. Delete player whose id is 1.

```
mysql> delete from Player where id = 1;
Query OK, 1 row affected (0.00 sec)

mysql> select * from Player;
+------+---------+---------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+---------+------+----------+
|    2 | ACER    | Mumbai  |   18 |      150 |
|    3 | HP      | Delhi   |   23 |       45 |
|    4 | ASUS    | MH      |   29 |       87 |
|    5 | OnePlus | Pune    |   35 |      145 |
+------+---------+---------+------+----------+
4 rows in set (0.00 sec)
```

Q5. Update the player run 40000 whose id is 1.

```
mysql> update Player set totalrun = 40000 where id=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from Player;
+------+---------+---------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+---------+------+----------+
|    2 | ACER    | Mumbai  |   18 |      150 |
|    3 | HP      | Delhi   |   23 |       45 |
|    4 | ASUS    | MH      |   29 |       87 |
|    5 | OnePlus | Pune    |   35 |      145 |
|    1 | Aditya  | Pune    |   21 |    40000 |
+------+---------+---------+------+----------+
5 rows in set (0.00 sec)
```

Q6. fetch player whose run is 10000, 20000,30000,5000.

```
mysql> select * from Player where totalrun = 10000 or totalrun = 20000 or totalrun = 30000
 or totalrun = 50000;
+------+---------+---------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+---------+------+----------+
|    2 | ACER    | Mumbai  |   18 |    10000 |
|    3 | HP      | Delhi   |   23 |    20000 |
|    4 | ASUS    | MH      |   29 |    30000 |
|    5 | OnePlus | Pune    |   35 |    50000 |
+------+---------+---------+------+----------+
4 rows in set (0.00 sec)

mysql> select * from Player where totalrun in(10000,20000,30000,50000);
+------+---------+---------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+---------+------+----------+
|    2 | ACER    | Mumbai  |   18 |    10000 |
|    3 | HP      | Delhi   |   23 |    20000 |
|    4 | ASUS    | MH      |   29 |    30000 |
|    5 | OnePlus | Pune    |   35 |    50000 |
+------+---------+---------+------+----------+
4 rows in set (0.00 sec)
```

Q7. Fetch max run from player table.

```
mysql> select max(totalrun) as run from player;
+-------+
| run   |
+-------+
| 50000 |
+-------+
1 row in set (0.01 sec)
```

```
mysql> select * from player order by totalrun DESC limit 1;
+------+---------+---------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+---------+------+----------+
|    5 | OnePlus | Pune    |   35 |    50000 |
+------+---------+---------+------+----------+
1 row in set (0.00 sec)
```

Q8. fetch min run from player table.

```
mysql> select min(totalrun) as run from player;
+-------+
| run   |
+-------+
| 10000 |
+-------+
1 row in set (0.00 sec)
```

Q9. find the average run of the player table.

```
mysql> select avg(totalrun) as AVG_RUNS from Player;
+------------+
| AVG_RUNS   |
+------------+
| 30000.0000 |
+------------+
1 row in set (0.00 sec)
```

```
mysql> select (sum(totalrun)/count(totalrun)) as AVG_RUNS from Player;
+------------+
| AVG_RUNS   |
+------------+
| 30000.0000 |
+------------+
1 row in set (0.00 sec)
```

Q10. find the sum of all players run.

```
mysql> select sum(totalrun) as SUM_RUNS from Player;
+----------+
| SUM_RUNS |
+----------+
|   150000 |
+----------+
1 row in set (0.00 sec)
```

Q11. count total number of players from table.

```
mysql> select count(name) as TotalPlayers from Player;
+--------------+
| TotalPlayers |
+--------------+
|            5 |
+--------------+
1 row in set (0.00 sec)
```

Q12. WA SQL query fetch player whose run is not 50000.

```
mysql> select * from Player where totalrun != 50000;
+------+--------+---------+------+----------+
| id   | name   | address | age  | totalrun |
+------+--------+---------+------+----------+
|    2 | ACER   | Mumbai  |   18 |    10000 |
|    3 | HP     | Delhi   |   23 |    20000 |
|    4 | ASUS   | MH      |   29 |    30000 |
|    1 | Aditya | Pune    |   21 |    40000 |
+------+--------+---------+------+----------+
4 rows in set (0.00 sec)
```

Q13. WA SQL Query to fetch player whose run is 5000 and name is not abc.

```
mysql> select * from player where totalrun=50000 and name!="abc";
+------+---------+---------+------+----------+
| id   | name    | address | age  | totalrun |
+------+---------+---------+------+----------+
|    5 | OnePlus | Pune    |   35 |    50000 |
+------+---------+---------+------+----------+
1 row in set (0.00 sec)
```

Q14 drop column address from player.

```
mysql> desc player;
+----------+--------------+------+-----+---------+-------+
| Field    | Type         | Null | Key | Default | Extra |
+----------+--------------+------+-----+---------+-------+
| id       | int          | YES  |     | NULL    |       |
| name     | varchar(255) | YES  |     | NULL    |       |
| address  | varchar(255) | YES  |     | NULL    |       |
| age      | int          | YES  |     | NULL    |       |
| totalrun | int          | YES  |     | NULL    |       |
+----------+--------------+------+-----+---------+-------+
5 rows in set (0.01 sec)

mysql> alter table player drop column address;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc player;
+----------+--------------+------+-----+---------+-------+
| Field    | Type         | Null | Key | Default | Extra |
+----------+--------------+------+-----+---------+-------+
| id       | int          | YES  |     | NULL    |       |
| name     | varchar(255) | YES  |     | NULL    |       |
| age      | int          | YES  |     | NULL    |       |
| totalrun | int          | YES  |     | NULL    |       |
+----------+--------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

Q15. drop table player from database.

```
mysql> show tables;
+------------------+
| Tables_in_aditya |
+------------------+
| player           |
+------------------+
1 row in set (0.00 sec)

mysql> drop table player;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> show tables;
Empty set (0.00 sec)
```