

```
create database sudhir ;
```

```
use sudhir;
```

```
CREATE TABLE OlympicPlayers (  
    PlayerID INT PRIMARY KEY,  
    PlayerName VARCHAR(50) NOT NULL,  
    Sport VARCHAR(50),  
    Medals VARCHAR(20),  
    TotalPlayed INT,  
    Winnings INT,  
    Losings INT,  
    Ranks INT,  
    StateID VARCHAR(10),  
    Country VARCHAR(50) DEFAULT 'India'  
);
```

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INSERT INTO OlympicPlayers (PlayerID, PlayerName, Sport, Medals, TotalPlayed, Winnings, Losings,  
Ranks, StateID, Country)
```

```
VALUES
```

```
(101, 'Mary Kom', 'Boxing', '5 Gold', 10, 8, 2, 1, 'MAN', 'India'),  
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desc olympicplayers;

select* from olympicplayers;

#alter table addd column#

alter table olympicplayers add column srno int;

desc olympicplayers;

#alter table modify column#

alter table olympicplayers modify srno bigint;

desc olympicplayers;

```
#alter table rename column#  
alter table olympicplayers change srno SR_No int(10);  
desc olympicplayers;
```

```
#alter table drop column#  
alter table olympicplayers drop SR_No;  
desc olympicplayers;
```

```
# RENAME TABLE#  
alter table olympicplayers rename to plyers;  
alter table plyers rename to PLAYERS;  
desc players;
```

```
#TRUNCATE TABLE#  
truncate table players;
```

```
#DROP TABLE#  
drop table players;
```

```
/* DML */  
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```

Country VARCHAR(50) DEFAULT 'India'

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#DELETE COMMAND#

delete from olympicplayers where playerid=131;

UPDATE COMMAND#

UPDATE OLYMPICPLAYERS

SET MEDALS='1 BRONZE',WINNINGS=1,LOSINGS=1

WHERE PLAYERID=128;

/*DQL*/

select*from olympicplayers;

select playername,sport,medals from olympicplayers;

#select distinct#

select distinct stateid from olympicplayers;

select count(distinct stateid) from olympicplayers;

#where clause#

select playerid,playername,medals from olympicplayers where totalplayed>2;

select playerid,playername,medals from olympicplayers where stateid='man';

select playerid,playername,medals from olympicplayers where stateid= 'mh';

/* LOGICAL OPERATORS*/

#AND operator#

select playername, winnings , medals ,playerid from olympicplayers where totalplayed<6 and stateid='mh';

#OR operator#

select playername, medals ,playerid from olympicplayers where losings=1 or totalplayed>5 or winnings>4;

#not operator#

select playername, medals , playerid from olympicplayers where sport='wrestling';

#between operator#

select * from olympicplayers where losings between 1 and 4;

select playername, playerid from olympicplayers where winnings between 3 and 5;

#in operators#

select * from olympicplayers where totalplayed in(2,4,10);

select playername, playerid, medals from olympicplayers where ranks in (1,2,3,4);

#like operator#

select playername, playerid, medals from olympicplayers where playername like'_%n%';

select playername , playerid , medals from olympicplayers where medals like'_%d';

select * from olympicplayers where playername like'%a%';

#notlike operator#

select playername, medals , losings, winnings, playerid from olympicplayers where playername like '%n';

select playername from olympicplayers where winnings is not null;

limit


```
select * from olympicplayers limit 3,18;
```

```
select playername, playerid, medals from olympicplayers limit 10,47;
```

```
# order by clause#
```

```
select playername, medals, playerid from olympicplayers order by playerid asc;
```

```
select * from olympicplayers order by totalplayed desc;
```

```
select * from olympicplayers order by totalplayed asc;
```

```
#renaming attributes#
```

```
select playername as name from olympicplayers;
```

```
select playername as name , playerid as id from olympicplayers;
```

```
#AGGREGATE FUNCTION#
```

```
SELECT AVG(WINNINGS) AS AVGWINNINGS FROM OLYMPICPLAYERS;
```

```
SELECT COUNT(WINNINGS) FROM OLYMPICPLAYERS;
```

```
SELECT MAX(LOSINGS) FROM OLYMPICPLAYERS;
```

```
SELECT MIN(TOTALPLAYED) FROM OLYMPICPLAYERS;
```

```
SELECT SUM(TOTALPLAYED) FROM OLYMPICPLAYERS;
```

```
#GROUPBY#
```

```
select playerid,count(medals) from olympicplayers group by playerid;
```

```
select playername, sum(winnings) from olympicplayers group by playername;
```

```
select playername, medals from olympicplayers group by PLAYERNAME, MEDALS;
```

```
SELECT PLAYERNAME , MIN(LOSINGS) FROM OLYMPICPLAYERS GROUP BY PLAYERNAME;
```

```
#HAVING CLAUSE#
```

```
SELECT SUM(RANKS), PLAYERNAME FROM OLYMPICPLAYERS GROUP BY PLAYERNAME HAVING  
SUM(RANKS)>2;
```

```
SELECT PLAYERNAME, MAX(WINNINGS) FROM OLYMPICPLAYERS GROUP BY PLAYERNAME HAVING  
MAX(WINNINGS) >3;
```

#SUBQUERIS#

```
SELECT PLAYERNAME ,WINNINGS FROM OLYMPICPLAYERS WHERE WINNINGS<( SELECT  
MAX(WINNINGS) FROM OLYMPICPLAYERS);
```

```
SELECT PLAYERNAME , MAX(LOSINGS) FROM OLYMPICPLAYERS GROUP BY PLAYERNAME HAVING  
MAX(LOSINGS) >( SELECT MIN(LOSINGS) FROM OLYMPICPLAYERS WHERE PLAYERID=123);
```

```
DROP TABLE AGE;
```

```
DROP TABLE OLYMPICPLAYERS;
```

joins##

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```

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```

```
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```

```
    Sport VARCHAR(50),
```

```
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```

```
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```

```
    Winnings INT,
```

```
    Losings INT,
```

```
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```

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```
CREATE TABLE age (  
    Age INT,  
    PlayerID INT,  
    FOREIGN KEY (PlayerID) REFERENCES OlympicPlayers(PlayerID)  
);
```

```
DESC AGE;
```

```
INSERT INTO age (Age, PlayerID)
```

```
VALUES
```

```
(29, 101),
```

```
(26, 102),
```

```
(23, 103),
```

```
(29, 104),
```

```
(38, 105),
```

```
(35, 106),
```

```
(25, 107),
```

```
(26, 108),
```

```
(27, 109),
```

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(22, 110),
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(23, 111),
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(25, 112),
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(19, 113),
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(23, 114),
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(27, 115),
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(23, 116),
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(27, 117),
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(24, 118),
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(28, 119),
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(30, 121),
(29, 122),
(25, 123),
(23, 124),
(27, 125),
(26, 126),
(27, 127),
(26, 128),
(29, 129),
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(24, 132),
(28, 133),
(25, 134),
(26, 135),
(28, 136),
(31, 137),
(24, 138),
(25, 139),
(19, 140),
(21, 141),
(27, 142),
(28, 143),
(26, 144),
(27, 145),
(25, 146),
(27, 147),
(38, 148),
(36, 149),
(23, 150);

#1. INNER JOIN#

```
SELECT OLYMPICPLAYERS.PLAYERNAME,AGE.AGE, OLYMPICPLAYERS.MEDALS, OLYMPICPLAYERS.  
PLAYERID  
  
FROM OLYMPICPLAYERS INNER JOIN AGE ON OLYMPICPLAYERS.PLAYERID=AGE.PLAYERID;
```

#2.LEFT JOIN

```
SELECT OLYMPICPLAYERS.PLAYERNAME,AGE.AGE, OLYMPICPLAYERS.MEDALS, OLYMPICPLAYERS.  
PLAYERID  
  
FROM OLYMPICPLAYERS LEFT JOIN AGE ON OLYMPICPLAYERS.PLAYERID=AGE.PLAYERID;
```

#3. right join

```
SELECT OLYMPICPLAYERS.PLAYERNAME,AGE.AGE, OLYMPICPLAYERS. PLAYERID  
  
FROM OLYMPICPLAYERS right join AGE ON OLYMPICPLAYERS.PLAYERID=AGE.PLAYERID;
```

#FULL JOIN

```
SELECT OLYMPICPLAYERS.PLAYERNAME,AGE.AGE, OLYMPICPLAYERS. PLAYERID  
  
FROM OLYMPICPLAYERS LEFT JOIN AGE ON OLYMPICPLAYERS.PLAYERID=AGE.PLAYERID  
  
UNION  
  
SELECT OLYMPICPLAYERS.PLAYERNAME,AGE.AGE, OLYMPICPLAYERS. PLAYERID  
  
FROM OLYMPICPLAYERS right join AGE ON OLYMPICPLAYERS.PLAYERID=AGE.PLAYERID;
```