

DBMS ASSIGNMENT-3

BY:

GROUP 6

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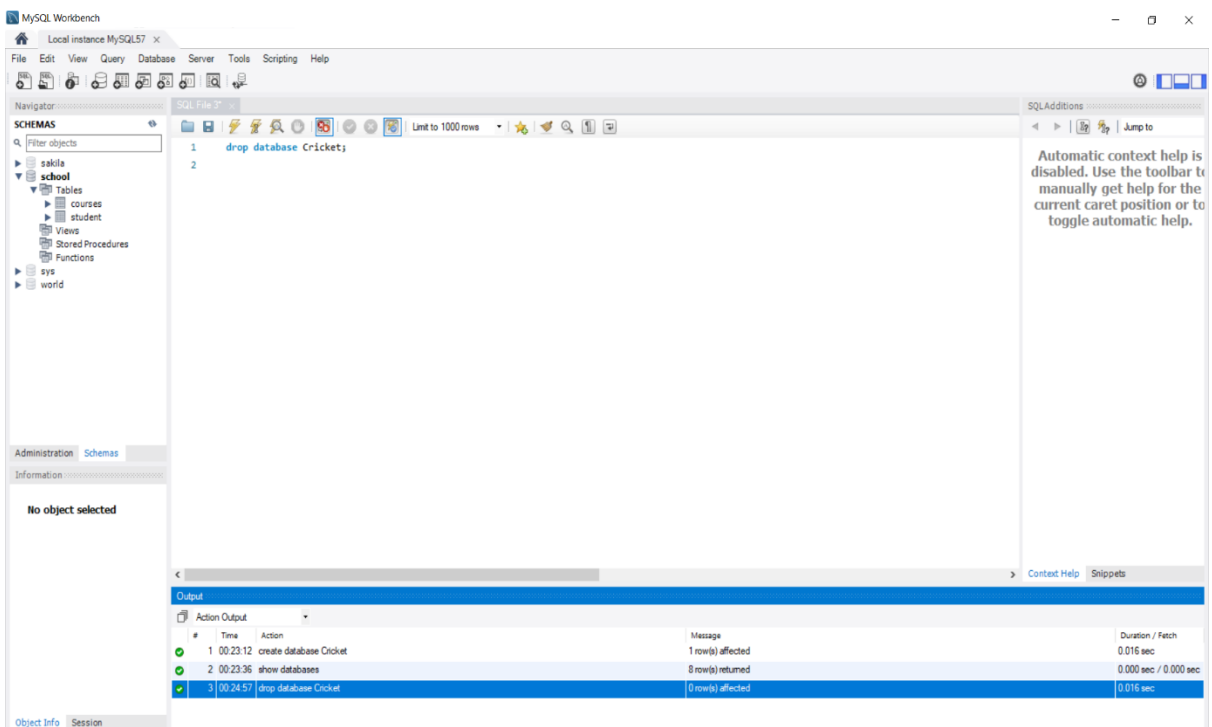
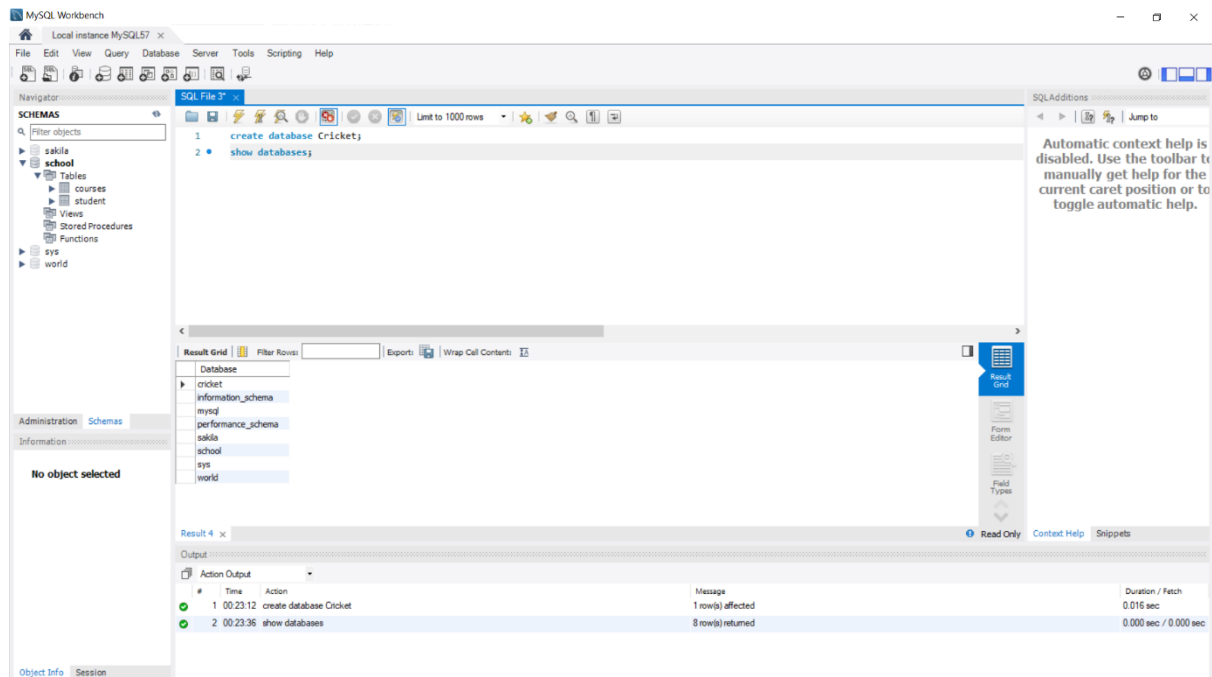
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1. Show how to Create and Drop Database



2. Show all the Databases are in the system

The screenshot shows the MySQL Workbench interface. The SQL editor contains the query `show databases;`. The Results pane displays a list of databases: `cricket`, `information_schema`, `mysql`, `performance_schema`, `sakila`, `school`, `sys`, and `world`. The left sidebar shows the Schemas tree with `cricket` expanded, showing tables like `players`. The bottom pane shows the Action Output for the query, listing 23 actions and their results.

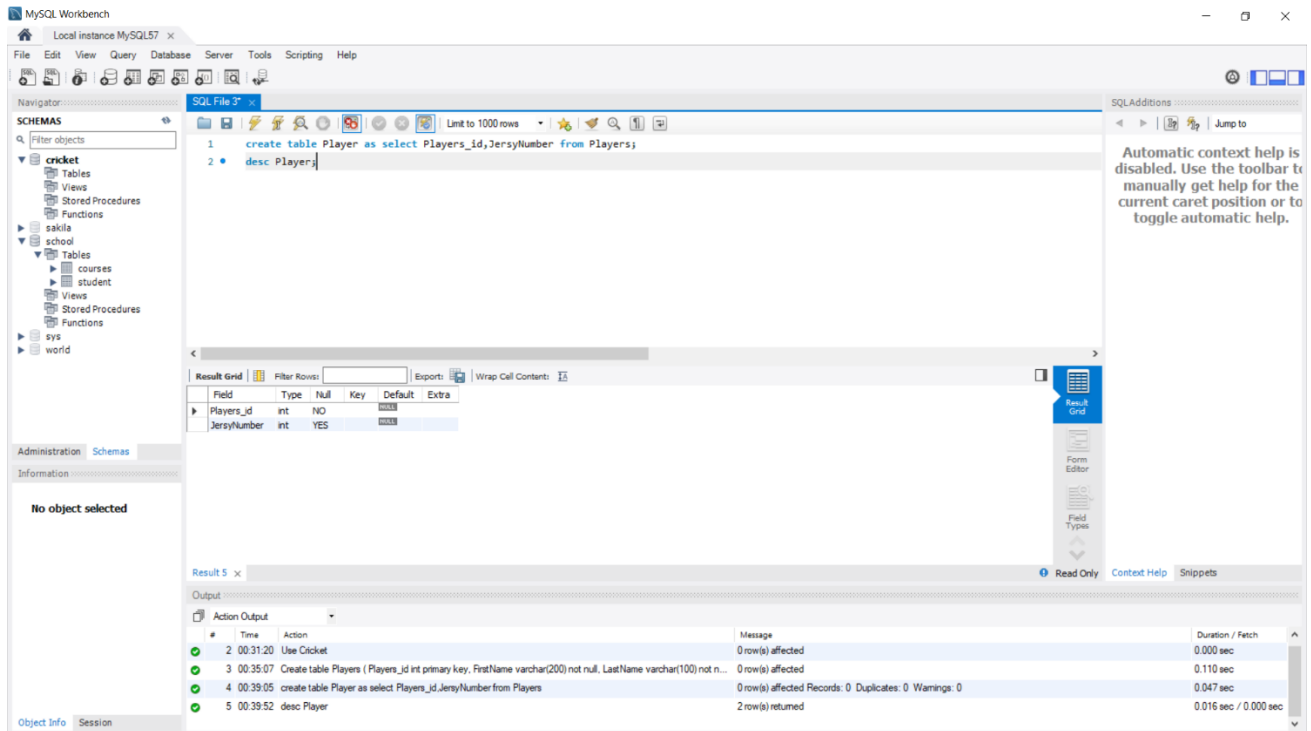
#	Time	Action	Message	Duration / Fetch
15	00:54:23	insert into players values (6,'Jawagal','Srinath',55.09,250)	1 row(s) affected	0.000 sec
16	00:54:23	insert into players values (7,'Devdutt','Paddikal',21.01,30)	1 row(s) affected	0.000 sec
17	00:54:23	insert into players values (8,'Mayank','Agarwal',25.06,70)	1 row(s) affected	0.000 sec
18	00:54:23	insert into players values (9,'Virel','Smith',35.5,90)	1 row(s) affected	0.000 sec
19	00:54:23	insert into players values (10,'Yuvraj','Singh',35.4,40)	1 row(s) affected	0.000 sec
20	00:57:06	select FirstName from players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
21	00:58:05	SELECT * FROM cricket.players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
22	00:58:47	SELECT * FROM cricket.players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
23	00:59:10	select FirstName from players where Matches<100 LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

3. Create Table for your Database

The screenshot shows the MySQL Workbench interface. The SQL editor contains the query `Create table Players` with the following structure: `(Players_id int primary key, FirstName varchar(200) not null, LastName varchar(100) not null, Age int not null, JerseyNumber int, Matches int);`. The left sidebar shows the Schemas tree with `cricket` expanded. The bottom pane shows the Action Output for the query, listing 3 actions and their results.

#	Time	Action	Message	Duration / Fetch
1	00:30:27	Create database Cricket	1 row(s) affected	0.015 sec
2	00:31:20	Use Cricket	0 row(s) affected	0.000 sec
3	00:35:07	Create table Players (Players_id int primary key, FirstName varchar(200) not null, LastName varchar(100) not null, ...	0 row(s) affected	0.110 sec

4. Show how select can be used for Creating table



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
1 create table Player as select Players_id, JerseyNumber from Players;
2 desc Player;
```

The left sidebar shows the Schemas tree with the 'cricket' database selected. The 'Tables' folder is expanded, showing 'Players' and 'Player'.

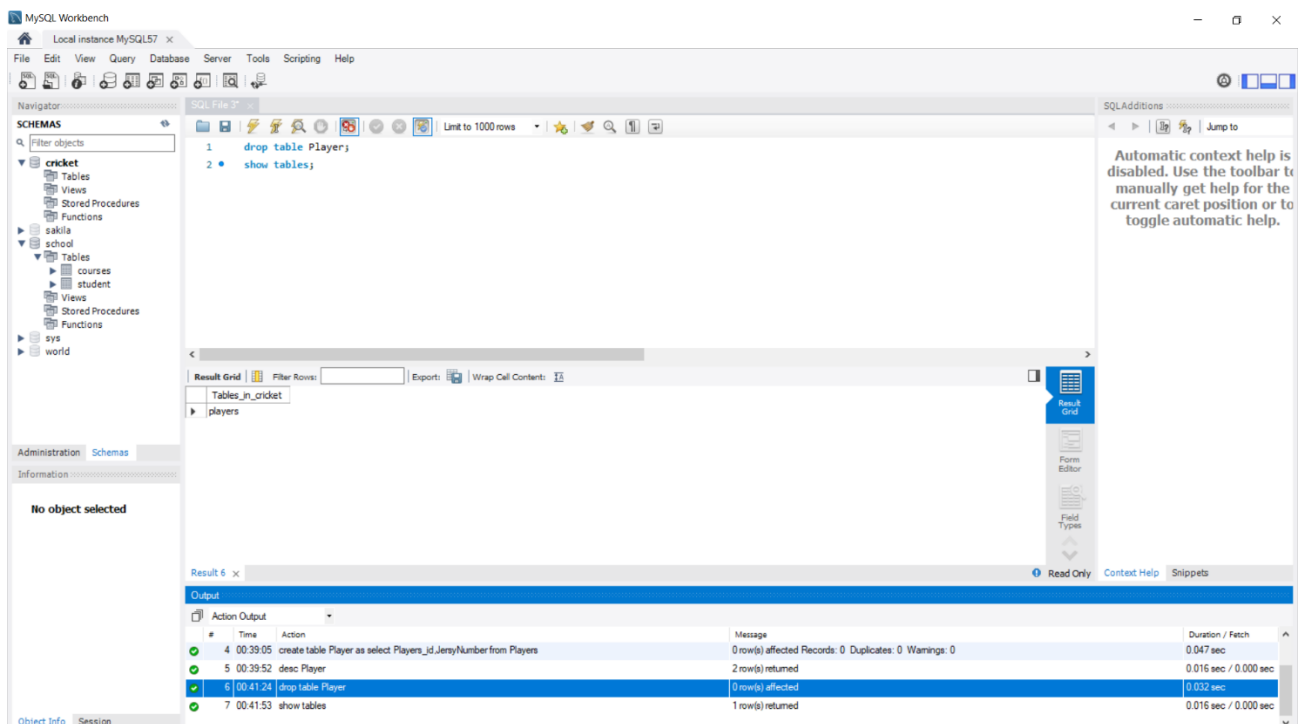
The 'Result Grid' shows the output of the 'desc Player' query:

Field	Type	Null	Key	Default	Extra
Players_id	int	NO			PRIMARY
JerseyNumber	int	YES			

The 'Output' pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
2	00:31:20	Use Cricket	0 row(s) affected	0.000 sec
3	00:35:07	Create table Players (Players_id int primary key, FirstName varchar(200) not null, LastName varchar(100) not null)	0 row(s) affected	0.110 sec
4	00:39:05	create table Player as select Players_id, JerseyNumber from Players	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
5	00:39:52	desc Player	2 row(s) returned	0.016 sec / 0.000 sec

5. Drop table



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
1 drop table Player;
2 show tables;
```

The left sidebar shows the Schemas tree with the 'cricket' database selected. The 'Tables' folder is expanded, showing 'Players', 'Player', and 'Tables_in_cricket'.

The 'Result Grid' shows the output of the 'show tables' query:

Tables_in_cricket
players

The 'Output' pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
4	00:39:05	create table Player as select Players_id, JerseyNumber from Players	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
5	00:39:52	desc Player	2 row(s) returned	0.016 sec / 0.000 sec
6	00:41:24	drop table Player	0 row(s) affected	0.032 sec
7	00:41:53	show tables	1 row(s) returned	0.016 sec / 0.000 sec

6. Show how to check the schema of the tables

The screenshot shows the MySQL Workbench interface. In the left sidebar, the 'Schemas' pane is open, and the 'cricket' database is selected. The 'Tables' folder under 'cricket' is expanded, showing a list of tables including 'Players'. The 'Players' table is selected, and its schema is displayed in the 'Result Grid' pane. The schema shows the following fields:

Field	Type	Null	Key	Default	Extra
Players_id	int	NO	PRI		
FirstName	varchar(200)	NO			
LastName	varchar(100)	NO			
Age	int	NO			
JerseyNumber	int	YES			
Matches	int	YES			

The 'Output' pane at the bottom shows the execution of the query 'desc Players;'. The output is as follows:

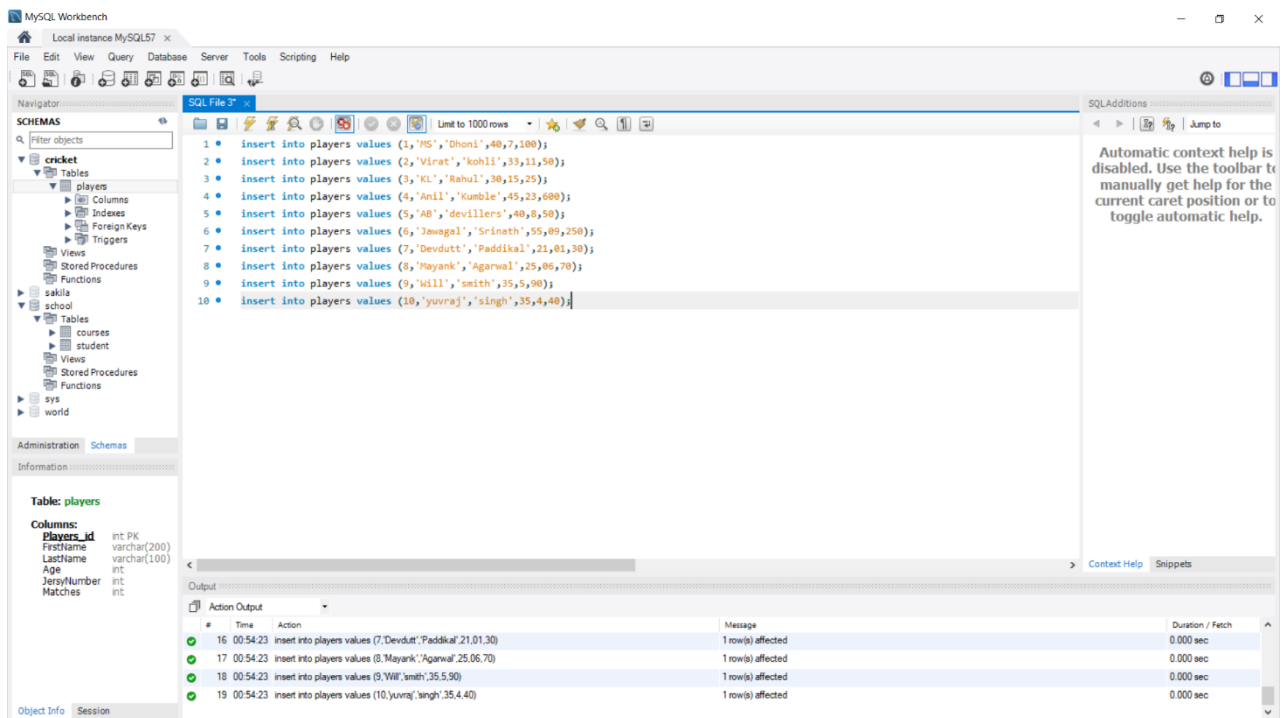
#	Time	Action	Message	Duration / Fetch
5	00:39:52	desc Player	2 row(s) returned	0.016 sec / 0.000 sec
6	00:41:24	drop table Player	0 row(s) affected	0.032 sec
7	00:41:53	show tables	1 row(s) returned	0.016 sec / 0.000 sec
8	00:42:50	desc Players	6 row(s) returned	0.000 sec / 0.000 sec

7. Show all the tables from the database

The screenshot shows the MySQL Workbench interface. In the left sidebar, the 'Schemas' pane is open, and the 'cricket' database is selected. The 'Tables' folder under 'cricket' is expanded, showing a list of tables including 'Players'. The 'Players' table is selected, and its schema is displayed in the 'Result Grid' pane. The 'Output' pane at the bottom shows the execution of the query 'show tables;'. The output is as follows:

#	Time	Action	Message	Duration / Fetch
6	00:41:24	drop table Player	0 row(s) affected	0.032 sec
7	00:41:53	show tables	1 row(s) returned	0.016 sec / 0.000 sec
8	00:42:50	desc Players	6 row(s) returned	0.000 sec / 0.000 sec
9	00:44:04	show tables	1 row(s) returned	0.000 sec / 0.000 sec

8. Insert 5 to 10 rows in each of the tables of your Database

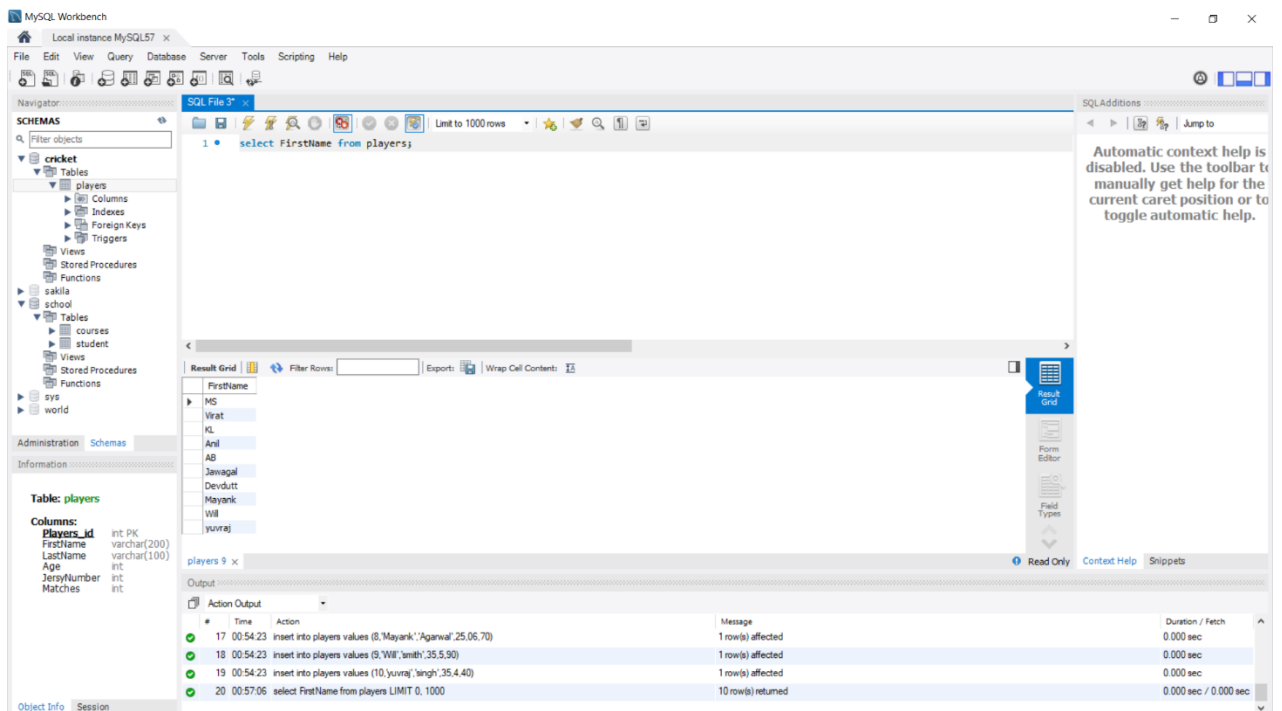


The screenshot shows the MySQL Workbench interface. The SQL Editor contains 10 INSERT statements for the 'players' table, each adding a new player record. The left sidebar shows the 'cricket' database schema with the 'players' table selected. The bottom pane shows the 'Action Output' table, which lists the execution of the first four INSERT statements, each successfully adding 1 row.

```
1 • insert into players values (1,'MS','Dhoni',40,7,100);
2 • insert into players values (2,'Virat','kohli',33,11,50);
3 • insert into players values (3,'KL','Rahul',30,15,25);
4 • insert into players values (4,'Anil','Kumble',45,23,600);
5 • insert into players values (5,'AB','devillers',40,8,50);
6 • insert into players values (6,'Jawagal','Srinath',55,09,250);
7 • insert into players values (7,'Devdutt','Paddikal',21,01,30);
8 • insert into players values (8,'Mayank','Agarwal',25,06,70);
9 • insert into players values (9,'Will','smith',35,5,90);
10 • insert into players values (10,'yuvraj','singh',35,4,40);
```

#	Time	Action	Message	Duration / Fetch
16	00:54:23	insert into players values (7,'Devdutt','Paddikal',21,01,30)	1 row(s) affected	0.000 sec
17	00:54:23	insert into players values (8,'Mayank','Agarwal',25,06,70)	1 row(s) affected	0.000 sec
18	00:54:23	insert into players values (9,'Will','smith',35,5,90)	1 row(s) affected	0.000 sec
19	00:54:23	insert into players values (10,'yuvraj','singh',35,4,40)	1 row(s) affected	0.000 sec

9. Show usage of Simple Select Statement



The screenshot shows the MySQL Workbench interface. The SQL Editor contains a simple SELECT statement: 'select FirstName from players;'. The left sidebar shows the 'cricket' database schema with the 'players' table selected. The bottom pane shows the 'Action Output' table, which lists the execution of the SELECT statement, returning 10 rows. The 'Result Grid' is also visible, showing the first few rows of the result set.

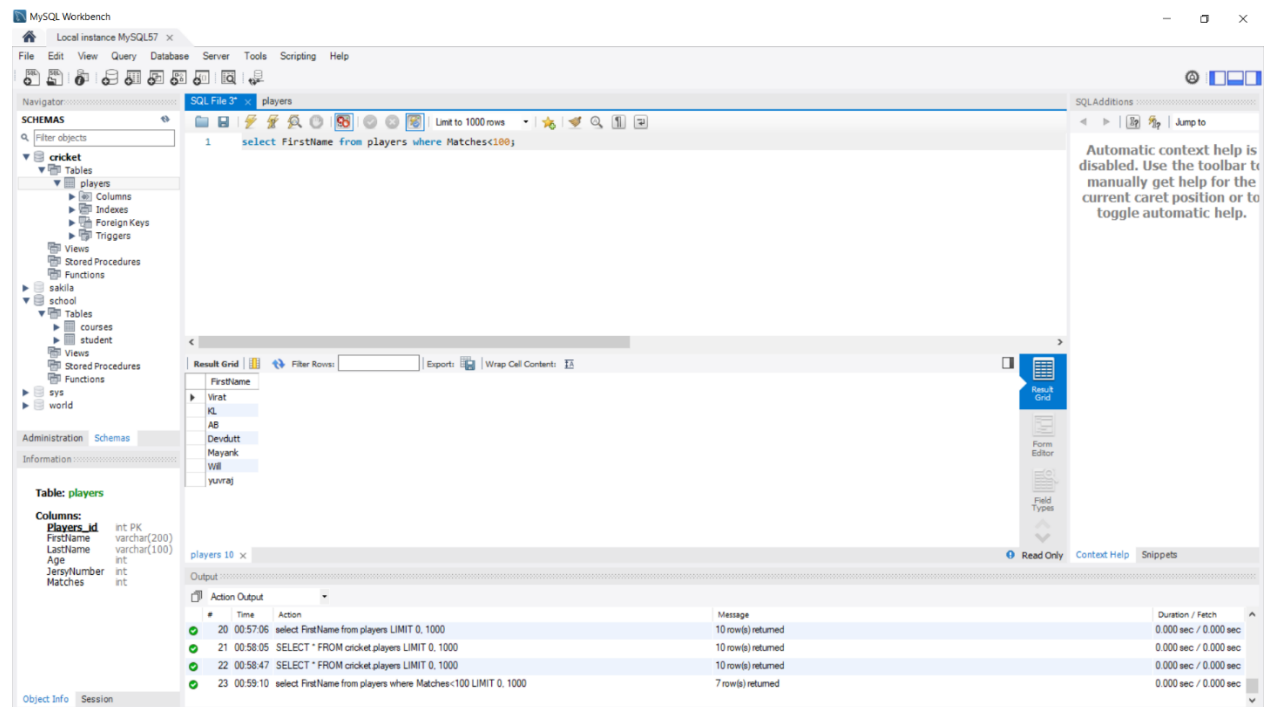
```
1 • select FirstName from players;
```

Result Grid
MS
Virat
KL
Anil
AB
Jawagal
Devdutt
Mayank
Will
yuvraj

#	Time	Action	Message	Duration / Fetch
17	00:54:23	insert into players values (8,'Mayank','Agarwal',25,06,70)	1 row(s) affected	0.000 sec
18	00:54:23	insert into players values (9,'Will','smith',35,5,90)	1 row(s) affected	0.000 sec
19	00:54:23	insert into players values (10,'yuvraj','singh',35,4,40)	1 row(s) affected	0.000 sec
20	00:57:06	select FirstName from players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

10. Select Statement using Relational and Logical operators.

A)



MySQL Workbench interface showing a query execution. The query is:

```
select FirstName from players where Matches<100;
```

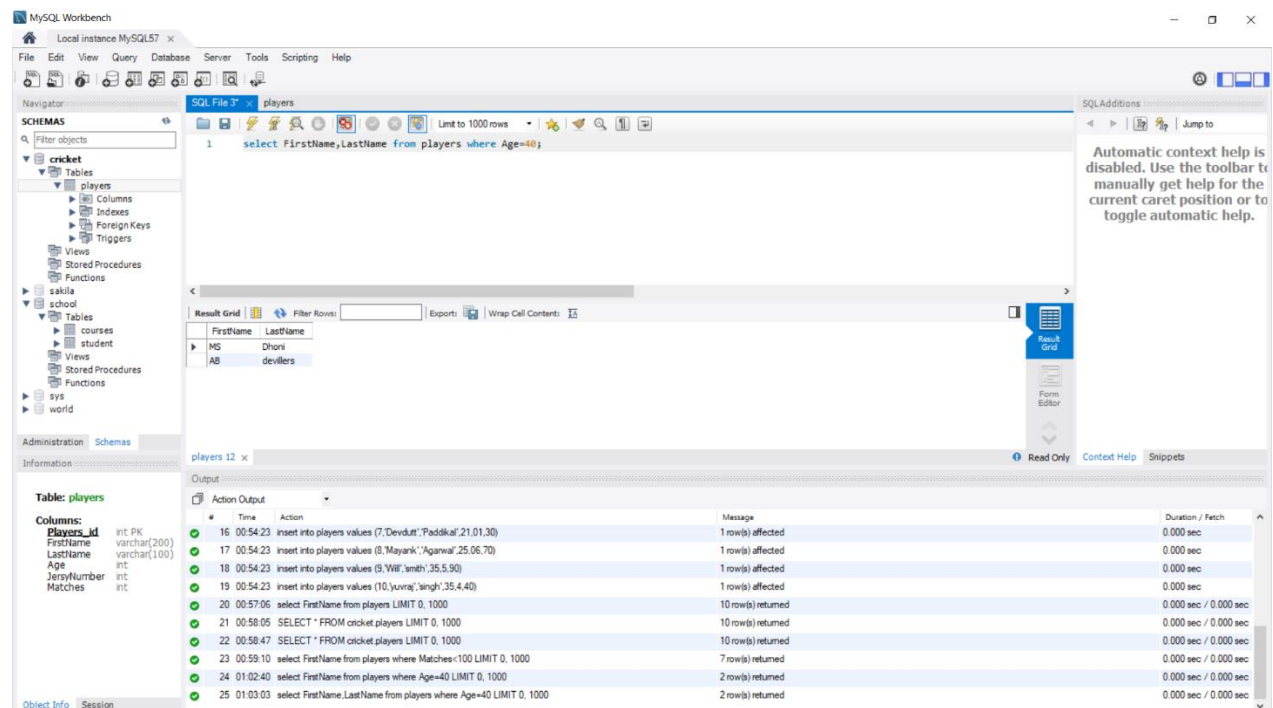
The result grid displays the following data:

FirstName
Virat
KL
AB
Devdutt
Mayank
Will
yuvraj

The output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
20	00:57:06	select FirstName from players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
21	00:58:05	SELECT * FROM cricket.players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
22	00:58:47	SELECT * FROM cricket.players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
23	00:59:10	select FirstName from players where Matches<100 LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

B)



MySQL Workbench interface showing a query execution. The query is:

```
select FirstName,Lastname from players where Age=40;
```

The result grid displays the following data:

FirstName	Lastname
MS	Dhoni
AB	devillers

The output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
16	00:54:23	insert into players values (7,'Devdutt','Paddikal',21.01.30)	1 row(s) affected	0.000 sec
17	00:54:23	insert into players values (8,'Mayank','Aganwal',25.06.70)	1 row(s) affected	0.000 sec
18	00:54:23	insert into players values (9,'Yuvraj','Singh',35.5.90)	1 row(s) affected	0.000 sec
19	00:54:23	insert into players values (10,'yuvraj','singh',35.4.40)	1 row(s) affected	0.000 sec
20	00:57:06	select FirstName from players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
21	00:58:05	SELECT * FROM cricket.players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
22	00:58:47	SELECT * FROM cricket.players LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
23	00:59:10	select FirstName from players where Matches<100 LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
24	01:02:40	select FirstName from players where Age=40 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
25	01:03:03	select FirstName,Lastname from players where Age=40 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

11. One simple Subquery using select

The screenshot displays the MySQL Workbench interface. The SQL Editor contains the following query:

```
1 select * from players where Players_id in (select Players_id from players where JerseyNumber>7);
```

The Results window shows the output of the query, which is a table with 6 rows and 6 columns:

Players_id	FirstName	LastName	Age	JerseyNumber	Matches
2	Virat	kohli	33	11	50
3	KL	Rahul	30	15	25
4	Anil	Kumble	45	23	600
5	AB	devillers	40	8	50
6	Jawagal	Srinath	55	9	250

The Output window shows the execution log, including the following messages:

- 14 00:54:23 insert into players values (5,'AB','devillers',40,8,50) 1 row(s) affected 0.000 sec
- 15 00:54:23 insert into players values (6,'Jawagal','Srinath',55,9,250) 1 row(s) affected 0.000 sec
- 16 00:54:23 insert into players values (7,'Devdutt','Paddikal',21,01,30) 1 row(s) affected 0.000 sec
- 17 00:54:23 insert into players values (8,'Mayank','Agarwal',25,06,70) 1 row(s) affected 0.000 sec
- 18 00:54:23 insert into players values (9,'Vijay','Smith',35,5,90) 1 row(s) affected 0.000 sec
- 19 00:54:23 insert into players values (10,'Yuvraj','Singh',35,4,40) 1 row(s) affected 0.000 sec
- 20 00:57:06 select FirstName from players LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec
- 21 00:58:05 SELECT * FROM cricket players LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec
- 22 00:58:47 SELECT * FROM cricket players LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec
- 23 00:59:10 select FirstName from players where Matches<100 LIMIT 0, 1000 7 row(s) returned 0.000 sec / 0.000 sec
- 24 01:02:40 select FirstName from players where Age<40 LIMIT 0, 1000 2 row(s) returned 0.000 sec / 0.000 sec
- 25 01:03:03 select FirstName,LastName from players where Age<40 LIMIT 0, 1000 2 row(s) returned 0.000 sec / 0.000 sec
- 26 01:06:57 select * from players where Players_id in (select Players_id from players where JerseyNumber>7) LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec