

Lab Task #09

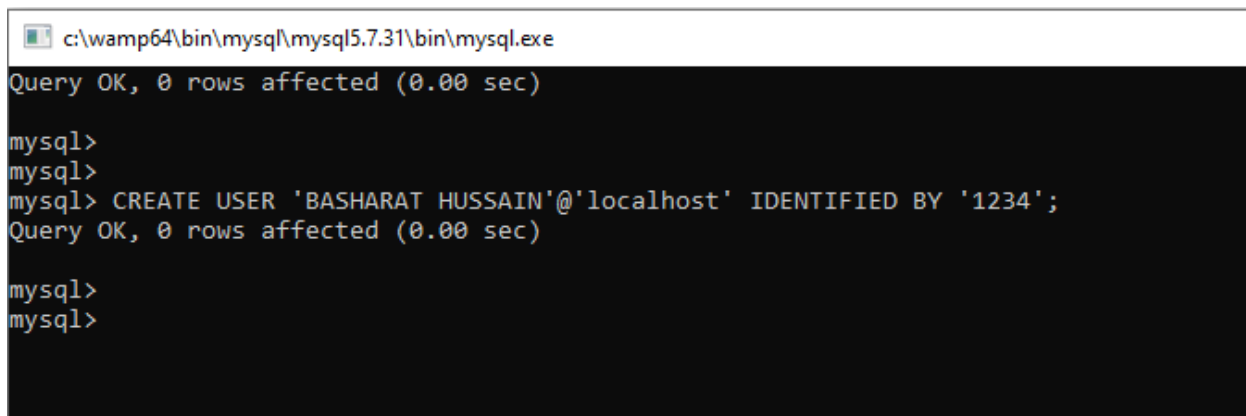
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Exercises

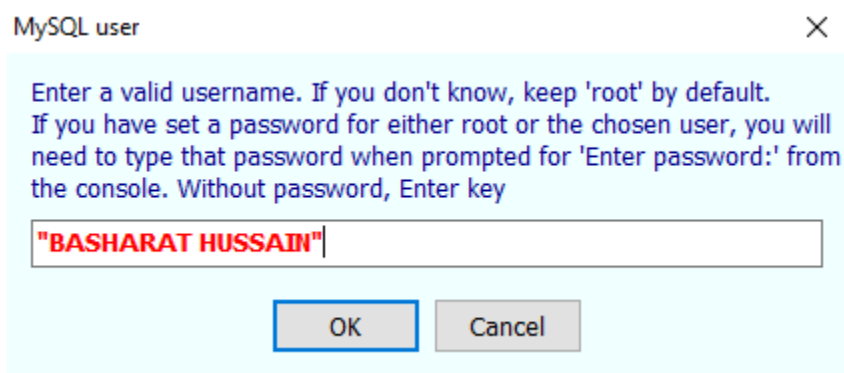
1. Create a user, user name should be your name.



```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
mysql> CREATE USER 'BASHARAT HUSSAIN'@'localhost' IDENTIFIED BY '1234';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
```



MySQL user

Enter a valid username. If you don't know, keep 'root' by default.
If you have set a password for either root or the chosen user, you will
need to type that password when prompted for 'Enter password:' from
the console. Without password, Enter key

"BASHARAT HUSSAIN"

OK Cancel

c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 128

Server version: 5.7.31 MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;

```
+-----+
| Database          |
+-----+
| information_schema |
+-----+
1 row in set (0.00 sec)
```

mysql>

2. Grants privileges to the user you created

- To access tables from database bs_6b (at least 1).

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> CREATE User 'BASHARAT HUSSAIN'@'localhost'IDENTIFIED BY '1234';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> GRANT ALL PRIVILEGES ON bs_6b.employee TO 'BASHARAT HUSSAIN'@'localhost'IDENTIFIED BY '1234';
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql>
mysql>
mysql>
```

	host	db	user	table_name	Grantor	timestamp	table_priv	Column_priv
Copy Delete	localhost	mysql	mysql.session	user	root@connecting host	0000-00-00 00:00:00	Select	
Copy Delete	localhost	sys	mysql.sys	sys_config	root@localhost	2021-03-20 17:36:10	Select	
Copy Delete	localhost	bs_6b	basharat	employee	root@localhost	0000-00-00 00:00:00	Select	
Copy Delete	localhost	bs_6b	BASHARAT HUSSAIN	employee	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete,Create,Drop,References...	
Copy Delete	localhost	bank	khan	product	root@localhost	0000-00-00 00:00:00	Select,Insert,Update	
Copy Delete	localhost	bank	P176102	acc_transaction	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete	
Copy Delete	localhost	bank	P176102	account	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete	
Copy Delete	localhost	bank	P176102	branch	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete	
Copy Delete	localhost	bank	P176102	business	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete	

- To access the views you have created in bs_6b (at least 1 view).

Select c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

```
ERROR 1049 (42000): Unknown database 'database_name'
mysql> SHOW FULL TABLES IN BS_6B WHERE TABLE_TYPE LIKE 'VIEW';
+-----+-----+
| Tables_in_bs_6b | Table_type |
+-----+-----+
| emp_details     | VIEW      |
| tparkssold      | VIEW      |
+-----+-----+
2 rows in set (0.00 sec)
```

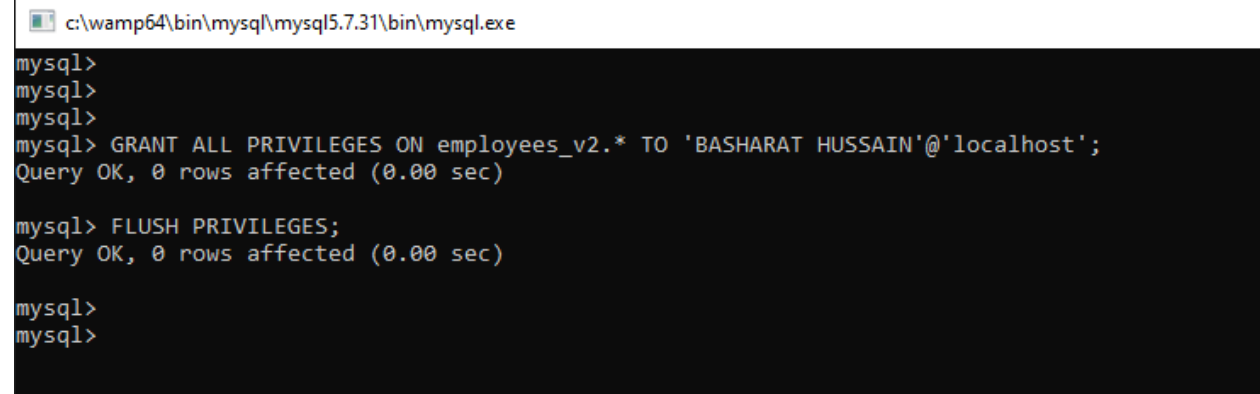
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

```
mysql>
mysql>
mysql>
mysql> GRANT ALL PRIVILEGES ON bs_6b.emp_details TO 'BASHARAT HUSSAIN'@'localhost' IDENTIFIED BY '1234';
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql>
```

Copy Edit	localhost	mysql.sys	mysql.sys	sys_config	root@localhost	2021-03-20 17:36:10	Select	
Copy Edit	localhost	bs_6b	basharat	employee	root@localhost	0000-00-00 00:00:00	Select	
Copy Edit	localhost	bs_6b	BASHARAT HUSSAIN	emp_details	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete,Create,Drop,References...	
Copy Edit	localhost	bs_6b	BASHARAT HUSSAIN	employee	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete,Create,Drop,References...	
Copy Edit	localhost	bank	khan	product	root@localhost	0000-00-00 00:00:00	Select,Insert,Update	
Copy Edit	localhost	bank	P176102	acc_transaction	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete	

To access full database of employee (which you have used in assignment 1)



```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
mysql>
mysql>
mysql>
mysql> GRANT ALL PRIVILEGES ON employees_v2.* TO 'BASHARAT HUSSAIN'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
```

c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

```
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 230
Server version: 5.7.31 MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| bs_6b |
| employees_v2 |
+-----+
3 rows in set (0.00 sec)

mysql> USE employees_v2;
Database changed
mysql> show tables;
+-----+
| Tables_in_employees_v2 |
+-----+
| departments |
| dept_emp |
| dept_manager |
| employees |
| job_description |
| salaries |
+-----+
6 rows in set (0.00 sec)

mysql>
```

Recent Favorites

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Ref]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	Host	Db	User	Select_priv	Insert_priv	Update_priv	Delete_priv	Create_priv	Drop_priv	Grant_priv	References_priv	Index_priv
<input type="checkbox"/> Edit Copy Delete	localhost	performance_schema	mysql.session	Y	N	N	N	N	N	N	N	N
<input type="checkbox"/> Edit Copy Delete	localhost	sys	mysql.sys	N	N	N	N	N	N	N	N	N
<input type="checkbox"/> Edit Copy Delete	localhost	employees_v2	BASHARAT HUSSAIN	Y	Y	Y	Y	Y	Y	N	Y	Y

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

3. Revoke the right to access the view you granted in exercise 2.

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL
ver version for the right syntax to use near 'IDENTIFIED BY '1234'' at line 1
mysql>
mysql>
mysql> REVOKE ALL PRIVILEGES ON bs_6b.emp_details FROM 'BASHARAT HUSSAIN'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
```

		Host	DB	User	Table_name	Grantor	Timestamp	Privileges
<input type="checkbox"/>	Edit Copy Delete	localhost	mysql	mysql.session	user	boot@connecting host	0000-00-00 00:00:00	Select
<input type="checkbox"/>	Edit Copy Delete	localhost	sys	mysql.sys	sys_config	root@localhost	2021-03-20 17:36:10	Select
<input type="checkbox"/>	Edit Copy Delete	localhost	bs_6b	basharat	employee	root@localhost	0000-00-00 00:00:00	Select
<input type="checkbox"/>	Edit Copy Delete	localhost	bs_6b	BASHARAT HUSSAIN	employee	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete,Create,Drop,References...
<input type="checkbox"/>	Edit Copy Delete	localhost	bank	khan	product	root@localhost	0000-00-00 00:00:00	Select,Insert,Update
<input type="checkbox"/>	Edit Copy Delete	localhost	bank	P176102	acc_transaction	root@localhost	0000-00-00 00:00:00	Select,Insert,Update,Delete

4. Grant the insert permission on table ticket and allow him to grant this permission to other users.

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
mysql>
mysql>
mysql>
mysql> GRANT INSERT ON bs_6b.ticket TO 'BASHARAT HUSSAIN'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
```

+ Options

			Host	Db	User	Table_name	Grantor	Timestamp	Table_priv	Column_p
<input type="checkbox"/>	Edit	Copy	Delete	localhost	mysql	mysql.session	user	boot@connecting host	0000-00-00 00:00:00	Select
<input type="checkbox"/>	Edit	Copy	Delete	localhost	sys	mysql.sys	sys_config	root@localhost	2021-03-20 17:36:10	Select
<input type="checkbox"/>	Edit	Copy	Delete	localhost	bs_6b	basharat	employee	root@localhost	0000-00-00 00:00:00	Select
<input type="checkbox"/>	Edit	Copy	Delete	localhost	bs_6b	BASHARAT HUSSAIN	employee	root@localhost	0000-00-00 00:00:00	Select,Insert
<input type="checkbox"/>	Edit	Copy	Delete	localhost	bs_6b	BASHARAT HUSSAIN	ticket	root@localhost	0000-00-00 00:00:00	Insert

↑ ☐ Check all With selected: Edit Copy Delete Export

5. Give a demonstration of commit, rollback and savepoint commands.

- You can use any already define database for the demonstration of TCL commands.


```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
10 rows in set (0.00 sec)

mysql>
mysql>
mysql> use bs_6b;
Database changed
mysql>
mysql> show tables;
+-----+
| Tables_in_bs_6b |
+-----+
| attraction      |
| emp_details     |
| employee        |
| hours           |
| sales           |
| sales_line      |
| themepark       |
| ticket          |
| tparkssold      |
+-----+
9 rows in set (0.00 sec)
```

```
mysql> select * from themepark;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| FR1001    | FairyLand | PARIS     | FR           |
| NL1202    | Efling    | NOORD     | NL           |
| SP4533    | AdventurePort | BARCELONA | SP           |
| SW2323    | Labyrinthe | LAUSANNE  | SW           |
| UK2622    | MiniLand  | WINDSOR   | UK           |
| UK3452    | PleasureLand | STOKE    | UK           |
| ZA1342    | GoldTown  | JOHANNESBURG | ZA           |
| PK1947    | TataraPark | PESHAWAR  | PK           |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

- Disable the autocommit option as shown in lab manual.

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> set autocommit=0;
Query OK, 0 rows affected (0.00 sec)

mysql>
```

- Insert some data in any table, update some data in any table

Insertion:

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
12 rows in set (0.02 sec)

mysql>
mysql> insert into themepark values('asa111','sddswe','paddfds','pk');
Query OK, 1 row affected (0.00 sec)

mysql> select * from themepark;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| FR1001 | FairyLand | london | FR |
| NL1202 | Efling | NOORD | NL |
| SP4533 | AdventurePort | BARCELONA | SP |
| SW2323 | Labyrinthe | LAUSANNE | SW |
| UK2622 | MiniLand | WINDSOR | UK |
| UK3452 | PleasureLand | STOKE | UK |
| ZA1342 | GoldTown | JOHANNESBURG | ZA |
| GB1234 | CityPark | GilGit | PK |
| CD123 | Asdfg | Karachi | PK |
| KPK123 | BageNaran | Peshawar | PK |
| EF123 | Zxcvb | Lahore | PK |
| AB1234 | F-9Park | Islamabad | PK |
| asa111 | sddswe | paddfds | pk |
+-----+-----+-----+-----+
13 rows in set (0.00 sec)

mysql>
```

Update:

```

c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
mysql>
mysql>
mysql> update themepark set park_city="lahore" where park_code = "AB1234";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from themepark;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| FR1001 | FairyLand | london | FR |
| NL1202 | Efling | NOORD | NL |
| SP4533 | AdventurePort | BARCELONA | SP |
| SW2323 | Labyrinthe | LAUSANNE | SW |
| UK2622 | MiniLand | WINDSOR | UK |
| UK3452 | PleasureLand | STOKE | UK |
| ZA1342 | GoldTown | JOHANNESBURG | ZA |
| GB1234 | CityPark | GilGit | PK |
| CD123 | Asdfg | Karachi | PK |
| KPK123 | BageNaran | Peshawar | PK |
| EF123 | Zxcvb | Lahore | PK |
| AB1234 | F-9Park | lahore | PK |
| asa111 | sddswe | paddfds | pk |
+-----+-----+-----+-----+
13 rows in set (0.00 sec)

mysql>

```

- Now apply rollback and see the result

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

mysql>
mysql>
mysql> ROLLBACK;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> select * from themepark;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| FR1001 | FairyLand | london | FR |
| NL1202 | Efling | NOORD | NL |
| SP4533 | AdventurePort | BARCELONA | SP |
| SW2323 | Labyrinthe | LAUSANNE | SW |
| UK2622 | MiniLand | WINDSOR | UK |
| UK3452 | PleasureLand | STOKE | UK |
| ZA1342 | GoldTown | JOHANNESBURG | ZA |
| GB1234 | CityPark | GilGit | PK |
| CD123 | Asdfg | Karachi | PK |
| KPK123 | BageNaran | Peshawar | PK |
| EF123 | Zxcvb | Lahore | PK |
| AB1234 | F-9Park | lahore | PK |
| asa111 | sddswe | paddfds | pk |
+-----+-----+-----+-----+
13 rows in set (0.00 sec)

mysql>
```

- Do some more transactions of insert, update and delete. Afterwards add a savepoint.

```

c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

mysql>
mysql>
mysql> insert into themepark values('AB1234','F-9Park','Islamabad','PK');
Query OK, 1 row affected (0.00 sec)

mysql> update themepark set park_city="GilGit" where park_code = "GB1234";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> DELETE from themepark Where park_code = "PK1947";
Query OK, 1 row affected (0.03 sec)

mysql> SAVEPOINT s1;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from themepark;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| FR1001 | FairyLand | london | FR |
| NL1202 | Efling | NOORD | NL |
| SP4533 | AdventurePort | BARCELONA | SP |
| SW2323 | Labyrinthe | LAUSANNE | SW |
| UK2622 | Miniland | WINDSOR | UK |
| UK3452 | PleasureLand | STOKE | UK |
| ZA1342 | GoldTown | JOHANNESBURG | ZA |
| GB1234 | CityPark | GilGit | PK |
| KPK123 | BageNaran | Peshawar | PK |
| AB1234 | F-9Park | Islamabad | PK |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>

```

- Insert 2 to 3 rows and then go back to previous savepoint and see the results.

c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

10 rows in set (0.00 sec)

mysql>

mysql>

mysql> insert into themepark values('CD123','Asdfg','Karachi','PK');

Query OK, 1 row affected (0.00 sec)

mysql> insert into themepark values('EF123','Zxcvb','Lahore','PK');

Query OK, 1 row affected (0.00 sec)

mysql> SAVEPOINT s2;

Query OK, 0 rows affected (0.00 sec)

mysql> select * from themepark;

PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
FR1001	FairyLand	london	FR
NL1202	Efling	NOORD	NL
SP4533	AdventurePort	BARCELONA	SP
SW2323	Labyrinthe	LAUSANNE	SW
UK2622	MiniLand	WINDSOR	UK
UK3452	PleasureLand	STOKE	UK
ZA1342	GoldTown	JOHANNESBURG	ZA
GB1234	CityPark	GilGit	PK
CD123	Asdfg	Karachi	PK
KPK123	BageNaran	Peshawar	PK
EF123	Zxcvb	Lahore	PK
AB1234	F-9Park	Islamabad	PK

12 rows in set (0.00 sec)