```
Last login: Mon Mar 18 13:15:26 on ttvs001
Last login: wom Mar is a 13:13:20 on ttyseel macbook@Kshitijs=MacBook=Air ~ % mysql u root Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 9 Server version: 8.3.0 Homebrew
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
| Database
  assignments
  impact information_schema
  mvsal
  performance_schema
  sys
  world
7 rows in set (0.03 sec)
mysql> use assignments;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables
     -> :
  Tables_in_assignments
  customer
  dept
  emp
   orders
  orderstatus
  product
   .
saleman
   salespeople
   salespersons
   v3
   v32
11 rows in set (0.00 sec)
mysql> create table product1(pid int primary key auto_increment,pname varchar(10),price decimal(10,2));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'auto_increment,pname varchar(10),price decimal(10,2))' at line 1
mysql> create table product1(pid int primary key auto_increment,pname varchar(10),price decimal(10,2));
Query OK, 0 rows affected (0.02 sec)
mysql> insert into produc1(pname,price) values('mouse',300);
ERROR 1146 (42S02): Table 'assignments.produc1' doesn't exist
mysql> insert into productI(pname,price) values('mouse',300);
Query OK, 1 row affected (0.00 sec)
<code>mysql></code> insert into product1(pname,price) values('moniter',14000); Query OK, 1 row affected (0.01 sec)
mysql> insert into product1(pname, price) values('laptop',10000);
Query OK, 1 row affected (0.01 sec)
mysql> select * from product1;
| pid | pname | price
     1 | mouse
                           300.00
           moniter
     3 | laptop
                      10000.00
3 rows in set (0.00 sec)
mysql> alter table product1 auto_increment=7699;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> insert into product1(pname,price) values('pendrive',1000),('ram',4000);
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> select * from product1;
| pid | pname | price
                               300.00
          I mouse
            moniter
                            14000.00
            laptop
                            10000.00
  7699
          | pendrive |
                             1000.00
  7700 | ram
                            4000.00
5 rows in set (0.01 sec)
mysql> set autocomit = 0;
ERROR 1193 (HY000): Unknown system variable 'autocomit'
mysql> set autocommit = 0;
Query OK, 0 rows affected (0.00 sec)
mysql> create table test(tid int,tname varchar(20),operation varchar(10));
Query OK, 0 rows affected (0.01 sec)
mysql> insert into test(1,'unitest','Dev');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1,'un itest','Dev')' at line 1 mysql> insert into test values(1,'unitest','Dev');
Query OK, 1 row affected (0.00 sec)
mysql> insert into test values(2, 'intersting', 'QA);
```

```
-> 1
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'l' at

mysql> insert into test values(2,'intersting','QA'); Query OK, 1 row affected (0.00 sec)

## mysql> select\* from test;

+-		-+-		++					
	tid	-	tname	operation					
+-		-+-		++					
1	1	1	unitest	Dev					
Ì	2	Ì	intersting	QA					
+-	++								

2 rows in set (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.01 sec)

mysql> insert into test values(2,'Jira','Prod');
Query OK, 1 row affected (0.01 sec)

## mysql> select \* from test;

tid	tname	operation		
1 2 2	unitest   intersting   Jira	Dev     QA     Prod		

3 rows in set (0.00 sec)

mysql> rollback;

Query OK, 0 rows affected (0.00 sec)

mvsal> select \* from test:

tid	tname	operation
1 1   2	unitest intersting	Dev   QA

2 rows in set (0.00 sec)

mvsnl> source /Users/macbook/Desktop/Impact Traning/SQL/testfile.sql Query OK, 0 rows affected, 1 warning (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Database changed

Query OK, 0 rows affected (0.01 sec)

Query OK, 3 rows affected (0.00 sec) Records: 3 Duplicates: 0 Warnings: 0

	oid	I	pname	price			
     	1 2 3		mouse Pendrive moniter	300 600 14000			

3 rows in set (0.00 sec)

Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A

Database changed

mysql> \q

mysql \ \q Bye macbook@Kshitijs-MacBook-Air \ % mysql -u root Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 2! Server version: 8.3.0 Homebrew

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

mysql> use impact;

Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A

Database changed

mysql> create table dept\_u1 as select \* from dept; Query OK, 5 rows affected (0.01 sec) Records: 5 Duplicates: 0 Warnings: 0

mysql> create table dept\_u2 as select \* from dept;

Query OK, 5 rows affected (0.01 sec) Records: 5 Duplicates: 0 Warnings: 0

<code>mysql></code> create table <code>emp\_withoutdata</code> as select <code>empno,ename,sal</code> from <code>emp</code> where 1=2; <code>Query OK, 0 rows affected (0.01 sec)</code> <code>Records: 0 Duplicates: 0 Warnings: 0</code>

mysql> select \* from emp\_withoutdata; Empty set (0.00 sec)

mysql> desc emp withoutdata;

		·			
Field	Type	Null	Key	Default	Extra
empno     ename     sal	decimal(4,0) varchar(10) decimal(7,2)	YES	 	NULL NULL NULL	

3 rows in set (0.00 sec)

mysql> create table emp\_withdata as select empno,ename,sal from emp where 1=1; Query OK, 19 rows affected (0.01 sec) Records: 19 Duplicates: 0 Warnings: 0

## mysql> select \* from emp\_withdata;

ļ.	empno	ename	sal
i-	7369	SMITH	800.00
Ĺ	7499	ALLEN	1600.00
Ĺ	7521	WARD	1250.00
ĺ	7566	JONES	2975.00
Ĺ	7654	MARTIN	1250.00
ĺ	7698	BLAKE	2850.00
ĺ	7782	CLARK	2450.00
Ĺ	7788	SCOTT	3000.00
ĺ	7839	KING	5000.00
	7844	TURNER	1500.00
ĺ	7876	ADAMS	1100.00
	7900	JAMES	950.00
	7902	FORD	3000.00
ĺ	7934	MILLER	1300.00
	1001	gopal	4000.00
	1002	Queen	NULL
	1003	Dasi	NULL
	1003	Arjit	NULL
l	7143	RAJESH	5000.00
+-	+		++

19 rows in set (0.00 sec)

mysql> insert into dept\_u1 values(60,'QA','SA');
Query OK, 1 row affected (0.00 sec)

mysql> select \* from dept\_u2;

+   dno		dname		loc
10   20   30   40   50	11111	ACCOUNTING RESEARCH SALES OPERATIONS testing		NEW YORK   DALLAS   CHICAGO   BOSTON   SA

5 rows in set (0.00 sec)

mysql> insert into dept\_u2 values(70,'SDLC','CA'); Query OK, 1 row affected (0.00 sec)

mysql> select \* from dept\_u1
 -> union

-/	ulitoli			
->	select	*	from	dept_u2;

dno	dname	loc			
1 10	ACCOUNTING	NEW YORK			
30	SALES	CHICAGO			
40   50	OPERATIONS     testing	BOSTON     SA			
60   70	QA   SDLC	SA     CA			
+	+	++			

7 rows in set (0.00 sec)

mysql> select \* from dept\_u1
 -> union all
 -> select \* from dept\_u2;

+	++										
dn	0	  -	dname	İ	loc	İ					
i	10	i	ACCOUNTING	i	NEW YORK	i					
İ	20	İ	RESEARCH	İ	DALLAS	İ					
İ	30	İ	SALES	İ	CHICAGO	İ					
i	40	İ	OPERATIONS	İ	BOSTON	İ					
İ	50	İ	testing	İ	SA	İ					
İ	60	İ	QA	İ	SA	İ					
İ	10	Ĺ	ACCOUNTING	Ĺ	NEW YORK	ĺ					
Ì	20	Ĺ	RESEARCH	Ĺ	DALLAS	ĺ					
İ	30	İ	SALES	İ	CHICAGO	İ					
İ	40	Ĺ	OPERATIONS	ĺ	BOSTON	ĺ					
İ	50	Ĺ	testing	ĺ	SA	ĺ					
İ	70	İ	SDLC	İ	CA	İ					
						ı					

12 rows in set (0.00 sec)

mysql> use impact;

Database changed
mysql> select \* from emp where sal=3000;

+		+	+	+	+	+	+	++
	empno				hiredate		comm	deptno
+			-+	+	+	+		++
-	7788	SCOTT	ANALY	ST   7566	1982-12-09	3000.00	NULL	20
-	7902	FORD	ANALY	ST   7566	1981-12-03	3000.00	NULL	20
- 1								

2 rows in set (0.02 sec)

mysql> explainselect \* from emp where sal=3000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'explainselect \* from emp where sal=3000' at line 1
mysql> explain select \* from emp where sal=3000;

i	id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra	i
		SIMPLE	emp		ALL							Using where	•

1 row in set, 1 warning (0.01 sec)

mysql> create index i\_sal on emp (sal); Query OK, 0 rows affected (0.09 sec) Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from emp;

empno   ename	job	mgr	hiredate	sal	comm	deptno
7369   SMITH   7499   ALLEN	CLERK   SALESMAN   SALESMAN   MANAGER	7902 7698 7698 7698		800.00 1600.00 1250.00 2975.00		20   30   30   20

```
7839
                                            1.981-05-01 |
                                                           2850.00
    7698
           BLAKE
                     MANAGER
                                                                           NULL
    7782
           CLARK
                      MANAGER
                                            1981-06-09
                                                           2450.00
                                                                                        10
                                    7839
                                                                           NULL
    7788
           SCOTT
                      ANALYST
                                    7566
                                             1982-12-09
                                                            3000.00
                                                                           NULL
                                                                                        20
    7839
           KING
                      PRESTDENT
                                    NULL
                                             1981-11-17
                                                            5000.00
                                                                           NULL
            TURNER
                                    7698
                      SALESMAN
                                             1981-09-08
                                                            1500.00
                                                                           0.00
    7844
                                                                                        30
    7876
           ADAMS
                      CLERK
                                    7788
                                            1983-01-12
                                                           1100.00
                                                                           NULL
                                                                                        20
    7900
           JAMES
                      CLERK
                                    7698
                                             1981-12-03
                                                             950.00
                                                                           NULL
                                                                                        30
    7902
           FORD
                      ANALYST
                                    7566
                                                                           NULL
           MILLER
                                    7782
    7934
                      CLERK
                                            1982-01-23
                                                           1300.00
                                                                           NULL
                                                                                        10
    1001
           gopal
Queen
                      NULL
                                    NULL
                                             NULL
                                                            4000.00
                                                                           NULL
                                                                                      NULL
                                            NULL
                      Rest
                                    NULL
   1003
           Dasi
                      Kaam
                                    NULL
                                            NULL
                                                               NULL
                                                                           NULL
                                                                                      NULL
    1003
           Ariit
                      sina
                                    NULL
                                             NULL
                                                               NULL
                                                                           NULL
                                                                                     NULL
   7143
           RAJESH
                     NULL
                                                            5000.00
19 rows in set (0.00 sec)
mysql> explainselect * from emp where sal=3000; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'explainselect * from emp where sal=3000' at line 1 mysql> select * from emp where sal=3000;
  empno | ename | job
                               | mgr | hiredate
                                                                  | comm | deptno
   7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000.00 | NULL
7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000.00 | NULL
                                                                                 20
                                                                                 20
2 rows in set (0.00 sec)
mysql> explain select * from emp where sal=3000;
| id | select_type | table | partitions | type | possible_keys | key | key_len | ref | rows | filtered | Extra |
  1 | SIMPLE
                      emp | NULL
                                              | ref | i_sal
                                                                                                              2 |
                                                                          | i_sal | 5
                                                                                                                     100.00 | NULL
                                                                                               | const |
1 row in set, 1 warning (0.00 sec)
mysql> insert into stud_info values(1,'smith','adam');
ERROR 1146 (42S02): Table 'impact.stud_info' doesn't exist
mysql> create table stud_info(sid int,firstname varchar(10),lastname varchar(10));
Query OK, 0 rows affected (0.02 sec)
mysql> insert into stud_info values(1,'smith','adam');
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud_info values(2,'Raju','aleti');
Query OK, 1 row affected (0.00 sec)
mysql> insert into stud_info values(3,'sainath','Gupta');
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud_info values(4,'Suraj','Patel');
Query OK, 1 row affected (0.00 sec)
<code>mysql></code> insert into stud_info values(4,'sainath','Gupta'); Query OK, 1 row affected (0.00 sec)
mysql> select * from stud_info where firstname='sainath' and lastname='Gupta';
       | firstname | lastname |
l sid
     3 | sainath
4 | sainath
                      Gupta
2 rows in set (0.00 sec)
mysql> explain select * from stud info where firstname='sainath' and lastname='Gupta':
  id | select_type | table
                                   | partitions | type | possible_keys | key | key_len | ref | rows | filtered | Extra
  1 | SIMPLE | stud_info | NULL
                                                 | ALL | NULL
                                                                            | NULL | NULL | 5 |
                                                                                                                        20.00 | Using where |
1 row in set, 1 warning (0.01 sec)
mysql> create index i_fn_ln on stud_info(firstname,lastname);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from stud info where firstname='sainath' and lastname='Gupta';
  sid | firstname | lastname
                      | Gupta
| Gupta
     3 | sainath
2 rows in set (0.00 sec)
mysql> explain select * from stud_info where firstname='sainath' and lastname='Gupta';
| id | select_type | table | partitions | type | possible_keys | key | key_len | ref
                                                                                                                      | rows | filtered | Extra
                                                                                                                            2 |
| 1 | SIMPLE
                      | stud info | NULL
                                                   | ref | i fn ln
                                                                              | i fn ln | 86
                                                                                                                                   100.00 | NULL
                                                                                                      | const.const |
1 row in set, 1 warning (0.00 sec)
mysql> show index from emp from impact;
  Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visib
                     1 | i_sal |
                                                    1 | sal
                                                                                   1
                                                                                                  14 | NULL | NULL | YES | BTREE
1 row in set (0.02 sec)
mysql> alter table emp drop index i_sal;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

mysql> show index from emp from sal

ERROR 1049 (42000): Unknown database 'sal' mysql> show index from emp from impact; Empty set (0.02 sec)

```
mysql> explain select * from stud_info where firstname='sainath' and lastname='Gupta';
 | id | select_type | table
                                     | partitions | type | possible_keys | key
                                                                                                                           | rows | filtered | Extra
                                                     | ref | i fn ln
                                                                                                                                2 |
   1 | SIMPLE
                       | stud info | NULL
                                                                                 | i fn ln | 86
                                                                                                         | const,const |
                                                                                                                                       100.00 | NULL
1 row in set, 1 warning (0.00 sec)
mysql> show create table stud_info;
           | Create Table
| Table
| stud_info | CREATE TABLE `stud_info` (
| stud_info | CREATE TABLE 'stud_info' (
'sid' int DEFAULT NULL,
'firstname' varchar(10) DEFAULT NULL,
'lastname' varchar(10) DEFAULT NULL,
KEY 'i_fn_ln' ('firstname', 'lastname')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
1 row in set (0.00 sec)
mysql> select *from stud_info;
 | sid | firstname | lastname
      1 | smith
2 | Raju
3 | sainath
                       | adam
                         aleti
      4 | Suraj
4 | sainath
                         Patel
                       Gupta
5 rows in set (0.00 sec)
<code>mysql></code> update <code>stud_info</code> set firstname='scott' where <code>sid=3;</code> Query OK, 1 row affected (0.00 sec) Rows <code>matched: 1 Changed: 1 Warnings: 0</code>
mysql> select *from stud_info
     '> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '
mysql> select *from stud_info;
| sid | firstname | lastname
      1 | smith
                         adam
      2 | Raju
3 | scott
4 | Suraj
                          aleti
                         Gupta
                         Patel
      4 | sainath
                       Gupta
5 rows in set (0.00 sec)
<code>mysql></code> create unique index un_in_fn on stud_info(firstname); Query OK, 0 rows affected (0.03 sec) Records: 0 Duplicates: 0 Warnings: 0
mysql> show create table stud_info;
            | Create Table
| Table
1 row in set (0.00 sec)
mysql> alter table stud_info drop index i_fn_ln; Query OK, 0 rows affected (0.01 sec) Records: 0 Duplicates: 0 Warnings: 0
mysql> show create table stud_info;
            | Create Table
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
1 row in set (0.00 sec)
mysql> show index from stud info;
  Table
              | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | V
 | stud_info |
                           0 | un_in_fn |
                                                           1 | firstname | A
                                                                                                            5 |
                                                                                                                  NULL | NULL | YES | BTREE
                                                                                                                                                                                              | Y
        NULL
```

1 row in set (0.01 sec)

## mysql> select \* from stud\_info;

sid	firstname	lastname
1	smith	adam
2	Raju	aleti
3	scott	Gupta
4	Suraj	Patel
4	sainath	Gupta

5 rows in set (0.01 sec)

mysql> insert into stud\_info values(5,'smith','doe'); ERROR 1062 (23000): Duplicate entry 'smith' for key 'stud\_info.un\_in\_fn' mysql> select \* from stud\_info where firtname='sainath'; ERROR 1084 (42522): Unknown column 'firtname' in 'where clause' mysql> select \* from stud\_info where firstname='sainath';

			firstname			
+-						+
	4	-	sainath		Gupta	
+-		-+-		+-		+

1 row in set (0.00 sec)

mvsql> explain select \* from stud info where firstname='sainath':

select_type		 	possible_keys			filtered	
	stud_info		•	un_in_fn		100.00	

1 row in set, 1 warning (0.00 sec)

mysql> select @name="sumit deshpande";

| @name="sumit deshpande" |

1 row in set (0.04 sec)

mysql> set @name="sumit deshpande"; Query OK, 0 rows affected (0.00 sec)

mysql> select @name;

I sumit deshpande I

1 row in set (0.00 sec)

mysql> select empno,ename,case sal
-> when 5000 then 'highest salary'
-> when 3000 then 'low salary'
-> else 'daily wages'
-> end as salary from emp;

empno   enam	e   salary
7369   SMIT	
7499   ALLE	N   daily wages
7521   WARD	daily wages
7566   JONE	S   daily wages
7654   MART	IN   daily wages
7698   BLAK	E   daily wages
7782   CLAR	K   daily wages
7788   SCOT	T   low salary
7839   KING	highest salary
7844   TURN	ER   daily wages
7876   ADAM	S   daily wages
7900   JAME	S   daily wages
7902   FORD	low salary
7934   MILL	ER   daily wages
1001   gopa	l   daily wages
1002   Quee	n   daily wages
1003   Dasi	daily wages
1003   Arji	t   daily wages
7143   RAJE	SH   highest salary

19 rows in set (0.02 sec)

mysql> select empno,ename,case sal

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1 mysql> select empno,ename,sal,case

-> when sal>=5000 then 'highest salary'
-> when sal>2000 and sal <=3000 then 'low salary'
-> else 'daily wages'
-> end as status from emp;

ı	-> end as status from emp,							
Ī	empno	ename	sal	status				
į	7369	SMITH	800.00	daily wages				
ļ	7499	ALLEN	1600.00	daily wages				
ı	7521	WARD	1250.00	daily wages				
	7566	JONES	2975.00	low salary				
1	7654	MARTIN	1250.00	daily wages				
Ĺ	7698	BLAKE	2850.00	low salary				
Ì	7782	CLARK	2450.00	low salary				
Ĺ	7788	SCOTT	3000.00	low salary				
Ì	7839	KING	5000.00	highest salary				
	7844	TURNER	1500.00	daily wages				
	7876	ADAMS	1100.00	daily wages				
	7900	JAMES	950.00	daily wages				
	7902	FORD	3000.00	low salary				
	7934	MILLER	1300.00	daily wages				
	1001	gopal	4000.00	daily wages				
	1002	Queen	NULL	daily wages				
ĺ	1003	Dasi	NULL	daily wages				
ĺ	1003	Arjit	NULL	daily wages				
I	7143	RAJESH	5000.00	highest salary				

19 rows in set (0.00 sec)

mysql> select if (10>5,'greater','lesser than 5');

mysql>