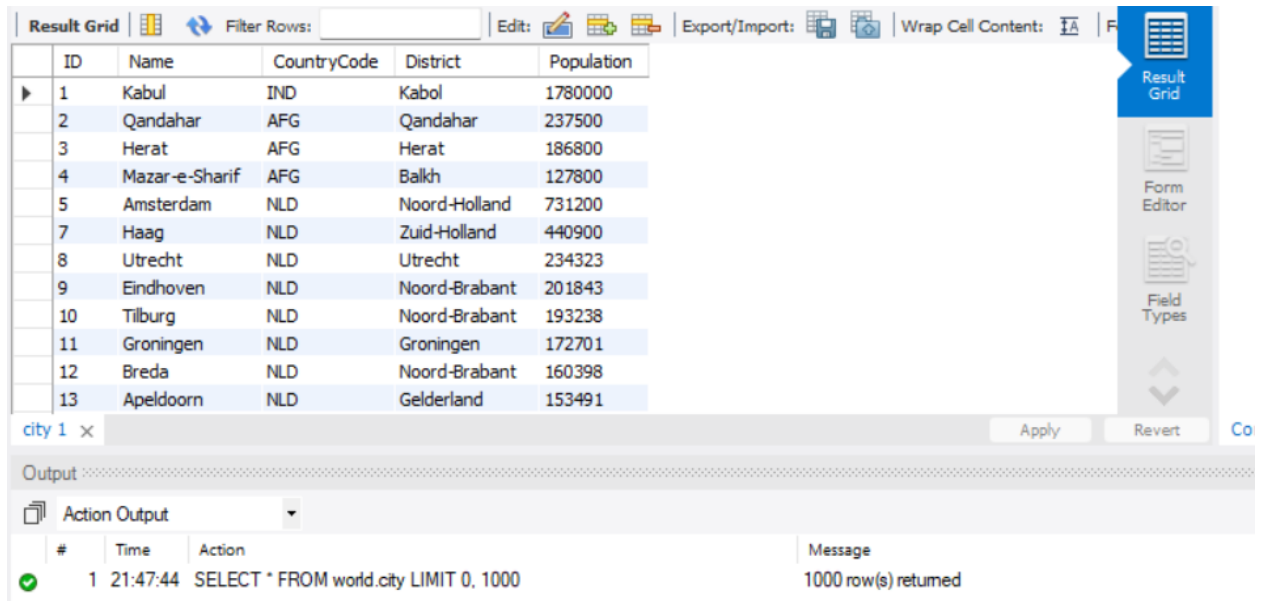


MySQL Database Screenshots

1. `SELECT * FROM world.city;`



ID	Name	CountryCode	District	Population
1	Kabul	IND	Kabul	1780000
2	Qandahar	AFG	Qandahar	237500
3	Herat	AFG	Herat	186800
4	Mazar-e-Sharif	AFG	Balkh	127800
5	Amsterdam	NLD	Noord-Holland	731200
7	Haag	NLD	Zuid-Holland	440900
8	Utrecht	NLD	Utrecht	234323
9	Eindhoven	NLD	Noord-Brabant	201843
10	Tilburg	NLD	Noord-Brabant	193238
11	Groningen	NLD	Groningen	172701
12	Breda	NLD	Noord-Brabant	160398
13	Apeldoorn	NLD	Gelderland	153491

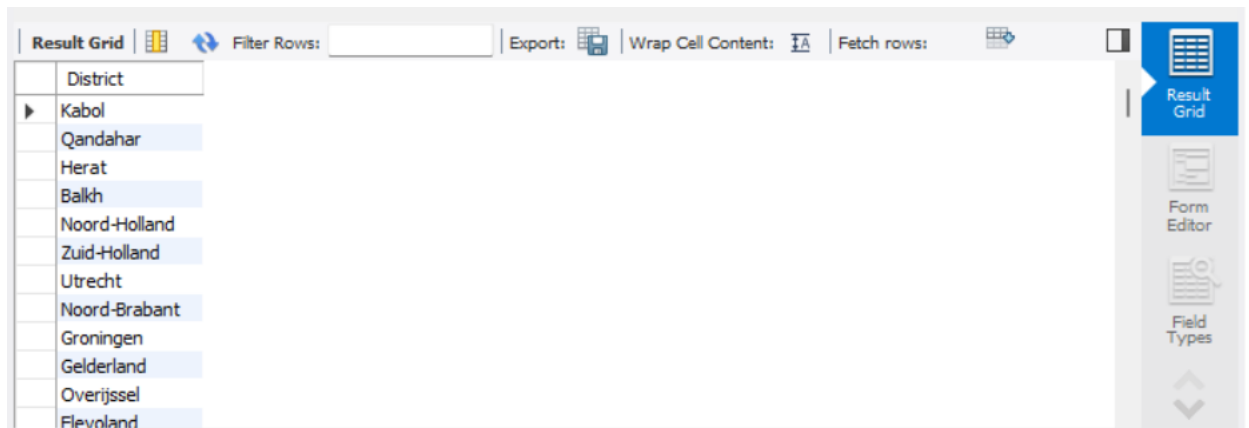
city 1 x Apply Revert Co

Output

Action Output

#	Time	Action	Message
1	21:47:44	SELECT * FROM world.city LIMIT 0, 1000	1000 row(s) returned

2. `SELECT DISTINCT District FROM world.city;`



District
Kabul
Qandahar
Herat
Balkh
Noord-Holland
Zuid-Holland
Utrecht
Noord-Brabant
Groningen
Gelderland
Overijssel
Flevoland

Result Grid

Form Editor

Field Types

3. `SELECT * FROM world.city WHERE Population > 1780000;`

Result Grid					
Filter Rows:					
ID	Name	CountryCode	District	Population	
35	Alger	DZA	Alger	2168000	
56	Luanda	AGO	Luanda	2022000	
69	Buenos Aires	ARG	Distrito Federal	2982146	
130	Sydney	AUS	New South Wales	3276207	
131	Melbourne	AUS	Victoria	2865329	
144	Baku	AZE	Baki	1787800	
150	Dhaka	BGD	Dhaka	3612850	
206	SÃ£o Paulo	BRA	SÃ£o Paulo	9968485	
207	Rio de Janeiro	BRA	Rio de Janeiro	5598953	
208	Salvador	BRA	Bahia	2302832	
209	Belo Horizonte	BRA	Minas Gerais	2139125	
210	Fortaleza	BRA	CearÃ	2097757	

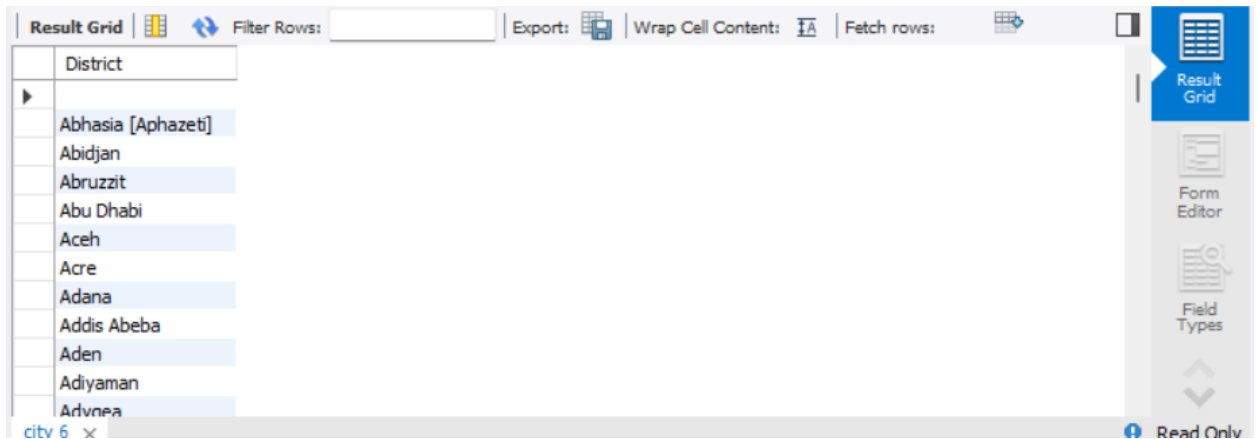
4. SELECT CountryCode, Population FROM world.city WHERE Population > 200000 AND ID < 30;

Result Grid		
Filter Rows:		
CountryCode	Population	
IND	1780000	
AFG	237500	
NLD	731200	
NLD	440900	
NLD	234323	
NLD	201843	

5. SELECT CountryCode, Population FROM world.city WHERE Population > 200000 OR ID < 30;

Result Grid		
Filter Rows:		
CountryCode	Population	
IND	1780000	
AFG	237500	
AFG	186800	
AFG	127800	
NLD	731200	
NLD	440900	
NLD	234323	
NLD	201843	
NLD	193238	
NLD	172701	
NLD	160398	
NLD	153491	

6. SELECT DISTINCT District FROM world.city ORDER BY District;



7. INSERT INTO world.city (ID,Name,CountryCode,District,Population) VALUES (100355, 'New', 'IND', 'Sant Ramdas', 200000);
8. UPDATE world.city SET CountryCode = 'IND' WHERE ID = 2;

ID	Name	CountryCode	District	Population
1	Kabul	IND	Kabul	1780000
2	Qandahar	IND	Qandahar	237500
3	Herat	AFG	Herat	186800
100355	New	IND	Sant Ramdas	200000

9. DELETE FROM world.city WHERE ID = 3;

ID	Name	CountryCode	District	Population
1	Kabul	IND	Kabul	1780000
2	Qandahar	IND	Qandahar	237500
4	Mazar-e-Sharif	AFG	Balkh	127800
100355	New	IND	Sant Ramdas	200000

10. SELECT * FROM world.city LIMIT 3;

ID	Name	CountryCode	District	Population
1	Kabul	IND	Kabul	1780000
2	Qandahar	IND	Qandahar	237500
4	Mazar-e-Sharif	AFG	Balkh	127800
100355	New	IND	Sant Ramdas	200000

11. SELECT * FROM world.city WHERE CountryCode LIKE 'A%';

Result Grid					
Filter Rows:					
	ID	Name	CountryCode	District	Population
▶	129	Oranjestad	ABW	År	29034
	100256		ABW		0
	100257		ABW		0
	100258		ABW		0
	100259		ABW		0
	4	Mazar-e-Sharif	AFG	Balkh	127800

12. SELECT * FROM world.city WHERE CountryCode IN ('DZA', 'IND', 'ARG');

Result Grid					
Filter Rows:					
	ID	Name	CountryCode	District	Population
▶	10	Tilburg	NLD	Noord-Brabant	193238
	11	Groningen	NLD	Groningen	172701
	12	Breda	NLD	Noord-Brabant	160398
	13	Apeldoorn	NLD	Gelderland	153491
	14	Nijmegen	NLD	Gelderland	152463
	15	Enschede	NLD	Overijssel	149544

13. SELECT * FROM world.city WHERE ID BETWEEN 10 AND 20;

Result Grid					
Filter Rows:					
	ID	Name	CountryCode	District	Population
▶	10	Tilburg	NLD	Noord-Brabant	193238
	11	Groningen	NLD	Groningen	172701
	12	Breda	NLD	Noord-Brabant	160398
	13	Apeldoorn	NLD	Gelderland	153491
	14	Nijmegen	NLD	Gelderland	152463
	15	Enschede	NLD	Overijssel	149544

14. SELECT CountryCode AS Code FROM world.city;

Result Grid					
Filter Rows:					
	Code				
▶	ABW				
	ABW				
	ABW				
	ABW				
	ABW				
	AFG				

15. SELECT world.city.ID, world.city.CountryCode FROM world.city INNER JOIN world.countrylanguage ON world.city.CountryCode = world.countrylanguage.CountryCode;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:	
ID	CountryCode					
129	ABW					
100256	ABW					
100257	ABW					
100258	ABW					
100259	ABW					
129	ABW					
100256	ABW					
100257	ABW					

Result 2 x Read Only

16. SELECT world.city.ID, world.countrylanguage.Language FROM world.countrylanguage LEFT JOIN world.city ON world.city.CountryCode = world.countrylanguage.CountryCode ORDER BY world.city.ID;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:	
ID	Language					
1	Tamil					
1	Marathi					
1	Malajalam					
1	Hindi					
1	Kannada					
1	Asami					
1	Urdu					
1	Telugu					

Result 3 x Read Only

17. SELECT world.city.Name, world.countrylanguage.Language FROM world.countrylanguage Right JOIN world.city ON world.city.CountryCode = world.countrylanguage.CountryCode ORDER BY world.city.Name;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:	
Name	Language					
	Bhojpuri					
	Creole French					
	French					
	Hindi					
	Marathi					
	Tamil					
	Balochi					
	Prakrit					

Result 4 x Read Only

18. SELECT world.city.Name, world.countrylanguage.Language FROM world.countrylanguage CROSS JOIN world.city;

Name	Language
Kabul	Shona
Kabul	Nyanja
Kabul	Ndebele
Kabul	English
Kabul	Tongan
Kabul	Nyanja
Kabul	Nsenga
Kabul	Lozi

19. SELECT world.countrylanguage.CountryCode FROM world.countrylanguage UNION
SELECT world.city.CountryCode FROM world.city;

CountryCode
ABW
AFG
AGO
AIA
ALB
AND
ANT
ADF

20. CREATE DATABASE training;

21. CREATE TABLE training.Persons (
 PersonID int,
 LastName varchar(255),
 FirstName varchar(255),
 Address varchar(255),
 City varchar(255)
);

22. CREATE TABLE people (
 ID int NOT NULL,
 LastName varchar(255) NOT NULL,
 FirstName varchar(255),
 Age int,
 PRIMARY KEY (ID)
);

23. ALTER TABLE people ALTER City SET DEFAULT 'Mumbai';
Select * from people;

Result Grid					
Filter Rows:					
	ID	LastName	FirstName	Age	City
▶	1	Adams	John	21	Mumbai
	2	Sayan	Shru	22	Mumbai
	3	Hail	Beib	26	Mumbai
	4	Jenner	Kendall	18	Mumbai
	5	Cruise	Tom	28	Mumbai
	6	Shane	Watson	28	Mumbai
	7	Kohli	Virat	26	Mumbai
	8	Tendulkar	Sachin	27	Mumbai
	9	Javed	Ali	18	Mumbai
	10	Khan	Salman	22	Mumbai
*	NULL	NULL	NULL	NULL	NULL

24. INSERT INTO people (ID,LastName,FirstName,Age) VALUES (1, 'Adams', 'John', 21);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (2,'Sayan', 'Shru', 22);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (3,'Hail', 'Beib', 26);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (4,'Jenner', 'Kendall', 18);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (5,'Cruise', 'Tom', 28);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (6,'Shane', 'Watson', 28);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (7,'Kohli', 'Virat', 26);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (8,'Tendulkar', 'Sachin', 27);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (9,'Javed', 'Ali', 18);
 INSERT INTO people (ID,LastName,FirstName,Age) VALUES (10,'Khan', 'Salman', 22);

Result Grid					
Filter Rows:					
	ID	LastName	FirstName	Age	City
▶	1	Adams	John	21	Mumbai
	2	Sayan	Shru	22	Mumbai
	3	Hail	Beib	26	Mumbai
	4	Jenner	Kendall	18	Mumbai
	5	Cruise	Tom	28	Mumbai
	6	Shane	Watson	28	Mumbai
	7	Kohli	Virat	26	Mumbai
	8	Tendulkar	Sachin	27	Mumbai
	9	Javed	Ali	18	Mumbai
	10	Khan	Salman	22	Mumbai
*	NULL	NULL	NULL	NULL	NULL

25. CREATE TABLE Orders (
 OrderID int NOT NULL,
 OrderNumber int NOT NULL,
 PersonID int,
 FOREIGN KEY (PersonID) REFERENCES people(ID) ON UPDATE CASCADE
 ON DELETE CASCADE);
26. ALTER TABLE Orders ADD PRIMARY KEY (OrderID);
27. CREATE INDEX idx_OrderNumber ON Orders (OrderNumber);
28. ALTER TABLE Orders AUTO_INCREMENT=100;
 INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (1,10,1);
 INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (2,15,1);
 INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (3,108,7);

```

INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (4,17,9);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (5,26,7);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (6,245,8);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (7,74,8);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (8,78,8);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (9,96,10);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (10,140,10);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (11,19,2);
INSERT INTO Orders (OrderID,OrderNumber,PersonID) VALUES (12,45,2);

```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	OrderID	OrderNumber	PersonID
▶	1	10	1
	2	15	1
	3	108	7
	4	17	9
	5	26	7
	6	245	8
	7	74	8
	8	78	8
	9	96	10
	10	140	10

Orders 2 x Read Only

29. CREATE VIEW MajorCustomers AS

```

SELECT FirstName, LastName
FROM people
WHERE Age < 21;

```

Result Grid		
Filter Rows: <input type="text"/>		
Export: Wrap Cell Content:		
	FirstName	LastName
▶	John	Adams

MajorCustomers 3 x Read Only

30. SELECT COUNT(ID), Age

```

FROM people
GROUP BY Age
HAVING COUNT(ID) > 1;

```


Result Grid	Filter Rows:	Export:	Wrap Cell Content:
COUNT(ID)	Age		
2	22		
2	26		
2	18		
2	28		

Result 4 x Read Only

```

31. DELIMITER $$
CREATE PROCEDURE candidates(IN ID INT)
BEGIN
    SELECT people.id, people.FirstName,people.LastName
    FROM people
    INNER JOIN Orders ON people.id = Orders.OrderID;
END$$
DELIMITER ;
CALL candidates(1);

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
id	FirstName	LastName	
1	John	Adams	
2	Shru	Sayan	
3	Beib	Hail	
4	Kendall	Jenner	
5	Tom	Cruise	
6	Watson	Shane	
7	Virat	Kohli	
8	Sachin	Tendulkar	
9	Ali	Javed	
10	Salman	Khan	

Result 5 x Read Only

```

32. 1st Normalization Form
Create table normalization(Employee varchar(255),Age int,Dept varchar(255));
INSERT INTO normalization (Employee ,Age,Dept) VALUES ('Alice',21, 'Marketing' );
INSERT INTO normalization (Employee ,Age,Dept) VALUES ('Alice',21, 'Sales' );
INSERT INTO normalization (Employee ,Age,Dept) VALUES ('ALex',23, 'Finance' );
INSERT INTO normalization (Employee ,Age,Dept) VALUES ('Alex',23, 'Investment
Banking' );

33. 2nd Normalization Form
Create table emp(empid int,Age int,Employee varchar(255));
ALTER TABLE emp

```

```

ADD PRIMARY KEY (empid);
Create table dept(dept_id int,Dept varchar(255));
ALTER TABLE dept
ADD PRIMARY KEY (dept_id);
Create table details(details_id int,dept_id int,empid int,FOREIGN KEY (dept_id)
REFERENCES dept(dept_id),FOREIGN KEY (empid) REFERENCES emp(empid));

```

34. 3rd Normalization Form

```

CREATE TABLE ADDRESS(
    ZIP      VARCHAR(12),
    STREET   VARCHAR(200),
    CITY     VARCHAR(100),
    STATE    VARCHAR(100),
    PRIMARY KEY (ZIP)
);

CREATE TABLE CUSTOMERS(
    CUST_ID   INT          NOT NULL,
    CUST_NAME VARCHAR (20)  NOT NULL,
    DOB       DATE,
    ZIP       VARCHAR(12),
    EMAIL_ID  VARCHAR(256),
    PRIMARY KEY (CUST_ID)
);

```

35. BCNF

```

create table Student(
    Student_id int,
    Prof_id int,
    FOREIGN KEY (Prof_id) REFERENCES Professor(Prof_id),
    PRIMARY KEY (Student_id));
Create table Professor(
    Prof_id int NOT NULL,
    Professor varchar(255),
    Subjects varchar(255),
    PRIMARY KEY(Prof_id)
);

```