

Become a Google Bigquery expert with this free 30+ SQL Snippets.

All these snippets are also included in the free Roboquery chrome extension

### **Create Table:**

```
CREATE TABLE Dataset.TableName
(
    EmployeeNo INT64 NOT NULL,
    FirstName STRING,
    LastName STRING,
    DOB DATE
    )
PARTITION BY DOB
CLUSTER BY EmployeeNo;
```

## **Create View:**

### Create table as select:

```
CREATE TABLE mydataset.mynewtable
AS
SELECT * FROM mydataset.myothertable
;
```

# **Drop Table:**

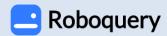
DROP TABLE Dataset. Tablename;

## **Drop View:**

DROP VIEW Dataset.Viewname;

### **Create CTE:**

```
WITH subQ1 AS (SELECT SchoolID FROM R oster),
subQ2 AS (SELECT OpponentID FROM Play erStats)
SELECT * FROM subQ1
UNION ALL
SELECT * FROM subQ2;
```



### **Derived Table:**

```
SELECT r.LastName FROM
( SELECT * FROM Roster) AS r;
```

### **Select Distinct:**

```
SELECT DISTINCT * FROM DatasetName.My
Table;
```

# **Select using Timetravel:**

```
SELECT * FROM Dataset.Table
FOR SYSTEM_TIME AS OF '2019-01-
01 10:00:00-07:00';
```

# **Group By:**

```
SELECT LastName, SUM(PointsScored) as pts
FROM PlayerStats
GROUP BY LastName;
```

# **Group by Having:**

```
SELECT LastName, SUM(PointsScored) AS ps
FROM Roster
GROUP BY LastName
HAVING ps > 0;
```

## **Order By:**

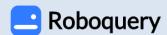
```
SELECT LastName, PointsScored, Oppone ntID
FROM PlayerStats
ORDER BY SchoolID, LastName desc;
```

### **Insert into Table:**

```
INSERT into dataset.Inventory_New
(
  product,
  quantity,
  supply_constrained
)
SELECT * FROM dataset.Inventory;
```

## **Insert values into Table:**

```
INSERT into dataset.Inventory (produc
t, quantity)
VALUES('top load washer', 10),
          ('front load washer', 20),
          ('dryer', 30),
          ('refrigerator', 10);
```



## **Update Table:**

UPDATE dataset.Inventory
SET quantity = quantity - 10
WHERE product like '%washer%';

### Inner Join:

SELECT R.\* FROM Roster R
INNER JOIN PlayerStats P
ON R.LastName = P.LastName;

## **Update From:**

```
UPDATE dataset.Inventory i
SET quantity = n.quantity
FROM (
select quantity,product from dataset.
NewArrivals
)n
WHERE i.product = n.product;
```

# Merge:

```
MERGE dataset.Inventory T
USING dataset.NewArrivals S
ON T.product = S.product
WHEN MATCHED THEN
   UPDATE SET quantity = T.quantity +
S.quantity
WHEN NOT MATCHED THEN
   INSERT (product, quantity) VALUES(product, quantity);
```

## **Delete:**

```
DELETE FROM dataset.Inventory WHERE q
uantity = 0;
--to delete all rows
DELETE FROM dataset.DetailedInventory
WHERE true;
```

### **Left Join:**

SELECT R.\* FROM Roster R LEFT JOIN PlayerStats P ON R.LastName = P.LastName;

### Parse Date:

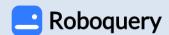
SELECT PARSE\_DATE("%Y%m%d", "20190927") as parsed date;

## Date Add:

SELECT DATE\_ADD(DATE "2008-12-25", INTERVAL 5 DAY) as five\_days\_lat er;

## **Date Sub:**

SELECT DATE\_SUB(DATE "2008-12-25", INTERVAL 5 DAY) as five\_days\_ago;



### **Date Diff:**

SELECT DATE\_DIFF(DATE '2010-07-07', DATE '2008-12-25', DAY) as days\_diff;

### **Extract from Date:**

SELECT EXTRACT(DAY FROM DATE '2013-12-25') as the\_day;

## **Cast to Integer:**

SELECT CAST("123" AS INT64) AS Emp\_Id;

# **Cast to String:**

SELECT CAST(123 AS STRING) AS Emp Id;

### **Cast to Numeric:**

SELECT CAST("123" AS NUMERIC) AS Emp\_

### **Rank Over:**

SELECT firstname, department, startda te, RANK() OVER ( PARTITION BY department ORDER BY startdate ) AS rank FROM Employees;

## **Row\_Number:**

SELECT firstname, department, startda te, ROW\_NUMBER() OVER ( PARTITION BY depa rtment ORDER BY startdate ) AS rank FROM Employees;

### **Rows Between:**

select firstname,
SUM(x) OVER (PARTITION BY y ORDER BY
z ROWS BETWEEN 1 PRECEDING AND 1
FOLLOWING) as ColumnAlias
from Employee;

This free cheat sheet is brought to you by Roboquery.

Roboquery helps you convert your table DDL, views, SQL scripts to Google Bigquery.

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