Roboquery

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 OR REPLACE VIEW Dataset.ViewNa
me AS
SELECT
      EmployeeNo,
      FirstName,
      LastName,
      DOB,
      JoinedDate,
      DepartmentNo
FROM Dataset.TableName;
```

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;
```

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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);
```

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Update Table:

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

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(p
roduct, quantity);
```

Delete:

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

Inner Join:

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

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
;
```

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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_
Id;
```

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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