

["histogram" in sql - ASP Free](#)

```

SELECT
  AVG(g.runID),
  AVG(g.m_stellar),
  EXP( AVG( LOG(g.m_stellar_error) ) ),
  COUNT(*),
  AVG(g.chi2),

  AVG(-1),

  AVG(g.redshift),
  AVG(g.t_lb/1E9),
  bID.ageStart,
  bID.width,

  AVG(-1),

  SQRT( AVG( SQUARE( hr.mass/g.m_stellar ) ) -
        SQUARE( AVG( hr.mass/g.m_stellar ) ) ) ,
  SQRT( AVG( SQUARE( hr.mass/bID.width/1E9 ) ) -
        SQUARE( AVG( hr.mass/bID.width/1E9 ) ) ) ,

  AVG(-1),

  AVG( CASE WHEN hr.mass > 0 THEN hr.mass_error/hr.mass ELSE NULL END ),
  AVG(hr.mass/(bID.width*1E9)),
  AVG(hr.mass/g.m_stellar),

  (1-0.046*LOG( (bID.ageStart+bID.width/2.0)*1E9/(2.76E5) + 1) ) ,
  (1-0.046*LOG( (bID.ageStart+bID.width/2.0)*1E9/(2.76E5) + 1) ) *AVG(hr.mass/g.m_stellar)

---
FROM BestDR7..PhotoObj AS dr, lookupTable as l, hrBinProp as hr, galProp as g, binID as bID
---
WHERE l.indexP=hr.indexP

AND g.m_stellar > EXP(LOG(10.)*11)
AND g.m_stellar < EXP(LOG(10.)*12)
AND dr.dered_u-dr.dered_r > 2.8

AND g.runID = 4
AND l.indexP=g.indexP
AND bID.binID = hr.binID
AND hr.runID = g.runID
AND l.specObjID = dr.specObjID
--- ---
GROUP BY hr.binID, bID.ageStart, bID.width
ORDER BY hr.binID

```

```

SELECT
AVG(g.runID),
AVG(g.m_stellar),
EXP( AVG( LOG(g.m_stellar_error) ) ),
AVG(g.chi2),

AVG(g.redshift),
AVG(g.t_lb/1E9),
bID.ageStart,
bID.width,

AVG(-1),

SQRT( AVG( SQUARE( hr.mass/g.m_stellar ) ) -
      SQUARE( AVG( hr.mass/g.m_stellar ) ) ) ,
SQRT( AVG( SQUARE( hr.mass/bID.width/1E9 ) ) -
      SQUARE( AVG( hr.mass/bID.width/1E9 ) ) ) ,

AVG(-1),

AVG( CASE WHEN hr.mass > 0 THEN hr.mass_error/hr.mass ELSE NULL END ),
AVG(hr.mass/(bID.width*1E9)),
AVG(hr.mass/g.m_stellar),
FLOOR(hr.mass/(bID.width*1E9)/0.5)*0.5,
COUNT(FLOOR(hr.mass/(bID.width*1E9)/0.5)),

AVG(-1),

(1-0.046*LOG( (bID.ageStart+bID.width/2.0)*1E9/(2.76E5) + 1) ) ,
(1-0.046*LOG( (bID.ageStart+bID.width/2.0)*1E9/(2.76E5) + 1) )*AVG(hr.mass/g.m_stellar)

---
FROM BestDR7..PhotoObj AS dr, lookupTable as l, hrBinProp as hr, galProp as g, binID as bID

```

---

WHERE l.indexP=hr.indexP

AND g.m\_stellar > EXP(LOG(10.)\*10.5)

AND g.m\_stellar < EXP(LOG(10.)\*11)

AND dr.dered\_u-dr.dered\_r < 1.5

AND g.runID = 1

AND hr.binID = 5

AND l.indexP=g.indexP

AND bID.binID = hr.binID

AND hr.runID = g.runID

AND l.specObjID = dr.specObjID

--- ---

GROUP BY FLOOR(hr.mass/(bID.width\*1E9)/0.5),hr.binID, bID.ageStart, bID.width

ORDER BY FLOOR(hr.mass/(bID.width\*1E9)/0.5),hr.binID