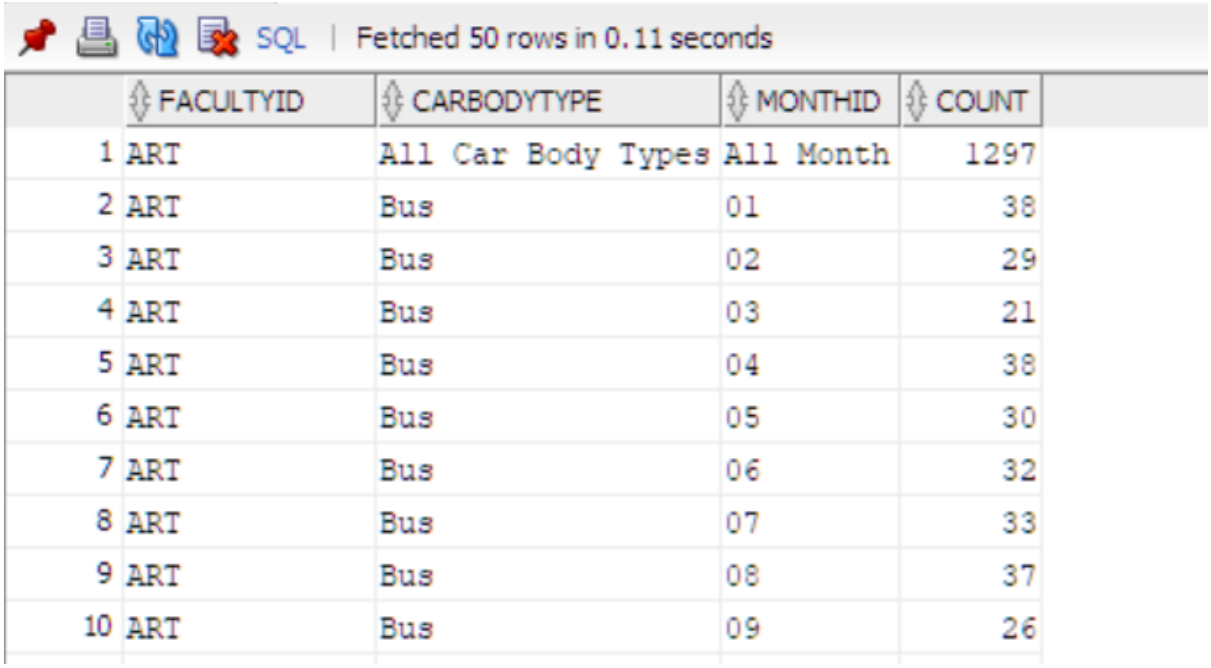
3.2. Reports with rollup and partial rollup

The following is the SQL script for making two reports that contain subtotals and one fact measure, using rollup and partial rollup.

REPORT 5: Produce one booking-related report that is useful for management that uses rollup.

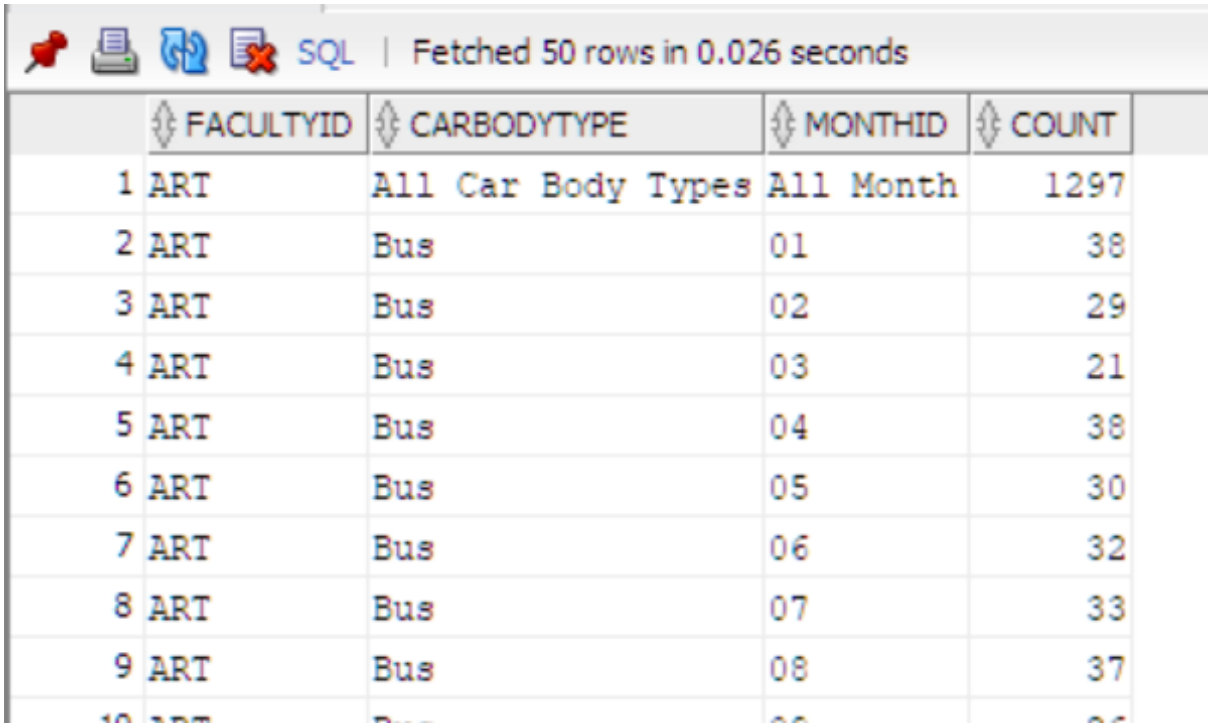


SQL | Fetched 50 rows in 0.11 seconds

	FACULTYID	CARBODYTYPE	MONTHID	COUNT
1	ART	All Car Body Types	All Month	1297
2	ART	Bus	01	38
3	ART	Bus	02	29
4	ART	Bus	03	21
5	ART	Bus	04	38
6	ART	Bus	05	30
7	ART	Bus	06	32
8	ART	Bus	07	33
9	ART	Bus	08	37
10	ART	Bus	09	26

```
-- Report 5
SELECT
DISTINCT DECODE (GROUPING(facultyid), 1, 'All Faculties', facultyid) as facultyid,
DECODE (GROUPING(carbodytype), 1, 'All Car Body Types', carbodytype) as carbodytype,
DECODE (GROUPING(monthid), 1, 'All Month', monthid) as monthid,
SUM(num_of_booking) as count
FROM bookingfact_V1
GROUP BY ROLLUP(facultyid,
carbodytype,
monthid)
ORDER BY facultyid,
carbodytype,
monthid;
```

REPORT 6: Produce one booking-related report that is useful for management that uses partial rollup.



SQL | Fetched 50 rows in 0.026 seconds

	FACULTYID	CARBODYTYPE	MONTHID	COUNT
1	ART	All Car Body Types	All Month	1297
2	ART	Bus	01	38
3	ART	Bus	02	29
4	ART	Bus	03	21
5	ART	Bus	04	38
6	ART	Bus	05	30
7	ART	Bus	06	32
8	ART	Bus	07	33
9	ART	Bus	08	37

```
--Report 6
SELECT
DISTINCT facultyid,
DECODE (GROUPING(carbodytype), 1, 'All Car Body Types', carbodytype) as carbodytype,
DECODE (GROUPING(monthid), 1, 'All Month', monthid) as monthid,
sum(num_of_booking) as count
FROM bookingfact_V1
GROUP BY facultyid, ROLLUP(
carbodytype,
monthid)
ORDER BY facultyid,
carbodytype,
monthid;
```

An explanation of the differences between rollup and partial rollup

The difference is that — unlike full rollup — the result of partial rollup does not contain grand total of the booking records.