

-----Gathering stats to know the execution time for query-----

```
exec dbms_stats.gather_table_stats('ADMIN','APARTMENT_UTILITY');--gather stats
```

```
explain plan for SELECT APARTMENT.APARTMENT_ID, APARTMENT_UTILITY.UTILITY_ID,  
UTILITY.UTILITY_NAME FROM APARTMENT
```

```
JOIN APARTMENT_UTILITY ON  
APARTMENT.APARTMENT_ID=APARTMENT_UTILITY.APARTMENT_ID
```

```
JOIN UTILITY ON APARTMENT_UTILITY.UTILITY_ID=UTILITY.UTILITY_ID
```

```
WHERE APARTMENT_UTILITY.IS_INCLUDED_IN_RENT= 'Yes' order by  
utility.utility_id,apartment.apartment_id;-----explains stats
```

```
select * from table(dbms_xplan.display);---displays execution time-----0.346 secs
```

```
Plan hash value: 3935555266
```

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		44	1100	7 (29)	00:00:01
1	SORT ORDER BY		44	1100	7 (29)	00:00:01
2	MERGE JOIN		44	1100	6 (17)	00:00:01
3	TABLE ACCESS BY INDEX ROWID	UTILITY	9	126	2 (0)	00:00:01
4	INDEX FULL SCAN	SYS C0028163	9		1 (0)	00:00:01
* 5	SORT JOIN		44	484	4 (25)	00:00:01
* 6	TABLE ACCESS STORAGE FULL	APARTMENT_UTILITY	44	484	3 (0)	00:00:01

```
Predicate Information (identified by operation id):
```

-----Creating index on Included_rent column-----

```
CREATE INDEX INDEX_APARTMENT_UTILITY
```

```
ON APARTMENT_UTILITY(IS_INCLUDED_IN_RENT);
```

-----After index creation-----

```
exec dbms_stats.gather_table_stats('ADMIN','APARTMENT_UTILITY');--gather stats
```

```
explain plan for SELECT APARTMENT.APARTMENT_ID, APARTMENT_UTILITY.UTILITY_ID,  
UTILITY.UTILITY_NAME FROM APARTMENT
```

```

1 Plan hash value: 3057030135
2
3 -----
4 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
5 -----
6 | 0 | SELECT STATEMENT | | 44 | 1100 | 6 (34) | 00:00:01 |
7 | 1 | SORT ORDER BY | | 44 | 1100 | 6 (34) | 00:00:01 |
8 | 2 | MERGE JOIN | | 44 | 1100 | 5 (20) | 00:00:01 |
9 | 3 | TABLE ACCESS BY INDEX ROWID | UTILITY | 9 | 126 | 2 (0) | 00:00:01 |
10 | 4 | INDEX FULL SCAN | SYS C0028163 | 9 | | 1 (0) | 00:00:01 |
11 | * 5 | SORT JOIN | | 44 | 484 | 3 (34) | 00:00:01 |
12 | 6 | TABLE ACCESS BY INDEX ROWID BATCHED | APARTMENT UTILITY | 44 | 484 | 2 (0) | 00:00:01 |
13 | * 7 | INDEX RANGE SCAN | INDEX APARTMENT UTILITY | 44 | | 1 (0) | 00:00:01 |
14 -----
15
16 Predicate Information (identified by operation id):
17 -----

```