**Oracle SQL**

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1. **Difference between where clause and Having clause**

**Sol link🡪** **https://youtu.be/7EEPuIDmcpA?si=wA6wnu9QZPE-kVuM**

**Example1:**

1. **Dept wise total sal where deptno is 10 and 20?**

**>>select deptno,sum(sal) from emp**

**Where deptno in (10,20)**

**Group by deptno**

**Order by 1 asc;**

1. **Dept wise total sal where deptno is 10 and 20 and total sal >10000?**

**>>select deptno,sum(sal) from emp**

**Where deptno in (10,20)**

**Group by deptno**

**Having sum(sal)>10000**

**Order by 1 asc;**

**NOTE: Multirow fun are not allowed in where clause ,hince we make use of having clause**

Difference Between Where and Having

**Where clause**

* **Filters the rows**
* **Used before group by**
* **If condition does not contain group fun then we can make use of where clause**

**Having clause**

* **Filters the groups**
* **Used after group by**
* **If condition contain group fun then we can make use of Having clause**

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Group by

LinK : https://youtu.be/6Zp17W-RYmI?si=8Khh2RLTTO0-HE38

**Used to group the rows based on columns and to calculate aggregate like min,max,sum,avg,count for each group**

* **Syntax: Select <column>**

**From<tablename>**

**Where[<condition>]**

**Group by<cols>**

**Having[ <condition>]**

**Example:**

1. **Calculate the total salary for each dept**

**Sol:>>select sum(sal) from emp**

**Group by deptno;**

1. **Calculate job wise employess**

**Sol: >> select job,count(\*) from emp**

**Group by job**

**Order by 1 asc;**

**NOTE: wen u want to calculate field wise count,min,max,avg,sum then use GROUP BY**

1. **Calculate num of employee based on year of join**

**Sol: >> select TO\_CHAR(hiredate,’yyyy’) as year ,count(\*) as cnt from emp**

**Group by TO\_CHAR(hiredate,’yyyy’)**

**Order by 1 asc;**

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JOINS

**Used to retervie the data from the table by selecting multiple table simantaneoulsy**

**Equi Join/Inner Join**

* **In order to perform equi join there must be column col in two tables**

**Orders table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Order id** | **Order date** | **Order Time** | **cid** |
| **101** | **23-03-2023** | **4:00** | **10** |
| **102** | **31-04-2023** | **5:00** | **20** |

**Customer Table**

|  |  |  |
| --- | --- | --- |
| **cid** | **cusName** | **cusAddress** |
| **10** | **A** | **bng** |
| **20** | **B** | **Mum** |
| **10** | **C** | **chennai** |

1. **Get order date,order time,order id,cusname,cusaddress**

**Sol:>> select order date,order time,order id,cusname,cusaddress**

**From Orders,Customer where Orders.cid=Customer.cid;**

**ORDER\_ID ORDER\_DATE DELIVER\_DA CNAME CADDRESS**

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**101 20-03-2023 27-03-2-23 ris Bng**