

DBMS Mini Project Queries

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Topic: Database for a shipping company

Task 1: Complete working model of the database application

01. (i) Simple Queries

a. Retrieve vehicle_id and registration number for all vehicles registered in karnataka (KA).

select vehicle_id, reg_number from vehicles where reg_number like 'KA%';

```
shipment2=# select vehicle_id, reg_number from vehicles where reg_number like 'KA%';
1          | KA12AG1642
6          | KA22UG1324
7          | KA12AG2689
```

b. Retrieve details of delivery staff delivering a particular order.

select (detail).name, (detail).ph_num, (detail).email from delivery_staff d, orders o where d.ds_id = o.ds_id;

```
shipment2=# select (detail).name, (detail).ph_num, (detail).email from delivery_staff d, orders o where
d.ds_id = o.ds_id;
Mikael      | 2517672827 | mkobiera0@sitemeter.com
Gwen        | 6703949183 | gjesson1@narod.ru
Birk        | 3223177339 | bcastagnone2@soup.io
Field       | 4279154156 | fdarrel3@apple.com
Shela       | 9954617534 | skeeffe4@japanpost.jp
Cairistiona | 4529265589 | cswadon5@google.de
Lisle       | 7572984135 | lmattam6@mail.ru
Kelley      | 2947329888 | kwickett7@digg.com
Ernest      | 6697216177 | erix8@youku.com
Sandy       | 5054097514 | stoma9@seesaa.net
```

c. Retrieve details of all employees who are 'Warehouse associate'.

*select * from employee where position='Warehouse associate';*

```
shipment2=# select * from employee where position='Warehouse associate';
1 | 376437 | 1991-10-26 | 1 | Warehouse associate | 1 | ("Myca Lintot",7676277423,mlintot0@wikispaces.com,"3516 Rockefeller Court")
4 | 115334 | 2010-02-06 | 54 | Warehouse associate | 4 | ("Talya McClune",3636462273,tmccclune3@abc.net.au,"1 Melody Parkway")
6 | 974918 | 2004-09-16 | 33 | Warehouse associate | 6 | ("Cairistiona Ollive",7136274920,collive5@netscape.com,"3450 Merrick Place")
8 | 508719 | 2007-09-09 | 59 | Warehouse associate | 8 | ("Adina Giacomini",1159259026,agiacomini7@cnbc.com,"4 Eastwood Junction")
9 | 149352 | 1997-01-05 | 40 | Warehouse associate | 9 | ("Lory Cayford",2204801033,lcayford8@cnbc.com,"78 Lakewood Gardens Alley")
10 | 368503 | 2007-07-08 | 47 | Warehouse associate | 10 | ("Weider Simeone",9151350533,wsimeone9@google.com.br,"6830 Little Fleur Hill")
```

d. Summarize salary details of delivery_staff.

select sum(Salary) as total_sal, min(Salary) as min_sal, max(Salary) as max_sal, avg(Salary) as avg_sal from Delivery_Staff;

```
shipment2=# select sum(Salary) as total_sal, min(Salary) as min_sal, max(Salary) as max_sal, avg(Salary) as avg_sal from Delivery_Staff;
53943 | 3060 | 8313 | 5394.3000000000000000
```

(ii) Complex Queries

1. Clients who have not placed any orders.

select client_id, (detail).name, (detail).email from client where client_id not in (select client_id from orders);

```
shipment2=# select client_id, (detail).name, (detail).email from client where client_id not in (select client_id from orders);

shipment2=# insert into Client values (11,row('aryaman', '1088736482', 'aryaman@indiegogo.com', '6198 IH block, PESBH'));
INSERT 0 1
shipment2=# select client_id, (detail).name, (detail).email from client where client_id not in (select client_id from orders);
11      | aryaman | aryaman@indiegogo.com
```

2. Warehouse address from where a delivery staff member has to pick up his order.

select t.Prod_id,(detail).name,t.wlocation from (select p1.Prod_id,p2.wlocation,p1.DS_id from (select Prod_id,W_id,DS_id from orders) p1 join (select wlocation, W_id from warehouse) p2 on(p1.W_id=p2.W_id)) t, delivery_staff n where (t.DS_id=n.DS_id);

```
shipment2=# select t.Prod_id,(detail).name,t.wlocation from (select p1.Prod_id,p2.wlocation,
n,p1.DS_id from (select Prod_id,W_id,DS_id from orders) p1 join (select wlocation, W_id fr
om warehouse) p2 on(p1.W_id=p2.W_id)) t, delivery_staff n where (t.DS_id=n.DS_id);
```

1	Mikael	869 Nancy Plaza
9	Gwen	869 Division Plaza
10	Birk	0 Carioca Terrace
2	Field	4010 Burning Wood Alley
3	Shela	5 Stoughton Pass
4	Cairistiona	9 Texas Terrace
5	Lisle	5383 Dixon Court
6	Kelley	618 Commercial Court
7	Ernest	7 Heath Pass
8	Sandye	17 Golden Leaf Street

3. Partners that have an order

*select po.prod_id, p.partner_id,p.products from (select * from partner_orders) po join (select * from partners) p on (po.partner_id=p.partner_id);*

```
shipment2=# select po.prod_id, p.partner_id,p.products from (select * from partner_orders)
po join (select * from partners) p on (po.partner_id=p.partner_id);
10 | 1 | Toys
7 | 3 | Movies
3 | 6 | Computers
5 | 5 | Shoes
```

4. Client id, name and product details of their order.

Select (detail).name,foo.id,foo.products from client,(select t2.client_id as id,t1.products as products from (select o.prod_id,p.products from partners p, partner_orders o where o.partner_id=p.partner_id) t1 join(select k.client_id,t.prod_id from (select client_id from client where client_id='7') k,orders t where t.client_id=k.client_id) t2 on (t1.prod_id=t2.prod_id)) as foo where client_id = foo.id;

```
shipment2=# Select (detail).name,foo.id,foo.products from client,(select t2.client_id as i
d,t1.products as products from (select o.prod_id,p.products from partners p, partner_order
s o where o.partner_id=p.partner_id) t1 join(select k.client_id,t.prod_id from (select cli
ent_id from client where client_id='7') k,orders t where t.client_id=k.client_id) t2 on (t
1.prod_id=t2.prod_id)) as foo where client_id = foo.id;
Jacki | 7 | Shoes
```