**SQL Nested Queries V1 ANS**

## **Exercises:**

1. Display the first name, last name, city and state for all customers who live in the same state as customer number 170 (Customers table).

**SELECT**

**first\_name,last\_name,city,state**

**FROM customers where state=(SELECT**

**state**

**FROM customers WHERE customer\_id=170);**

1. Display the package number, internet speed and sector number for all packages whose sector number equals to the sector number of package number 10 (Packages table).

**select pack\_id,speed,sector\_id from packages where sector\_id=(select sector\_id from packages where pack\_id=10);**

1. Display the first name, last name and join date for all customers who joined the company after customer number 540 (Customers table).

**SELECT**

**first\_name,last\_name,join\_date**

**FROM customers where join\_date>(SELECT**

**join\_date**

**FROM customers WHERE customer\_id=540);**

1. Display the first name, last name and join date for all customers who joined the company on the same month and on the same year as customer number 372 (Customers table).

**SELECT**

**first\_name,last\_name,join\_date**

**FROM customers where extract(month from join\_date)=(SELECT**

**extract(month from join\_date)**

**FROM customers WHERE customer\_id=372) and extract(YEAR from join\_date)=(SELECT**

**extract(year from join\_date)**

**FROM customers WHERE customer\_id=372);**

1. Display the first name, last name, city, state and package number for all customers whose internet speed is “5Mbps” (Customers and Packages table).

**SELECT**

**first\_name,last\_name,city,state,pack\_id**

**FROM customers WHERE pack\_id in(SELECT**

**pack\_id**

**FROM packages where speed='5Mbps');**

1. Display the package number, internet speed and strt\_date (the date it became available) for all packages who became available on the same year as package number 7 (Packages table).

**select pack\_id,speed,strt\_date from packages where EXTRACT(year from strt\_date)=(select extract(year from strt\_date) from packages where pack\_id=7);**

1. Display the first name, monthly discount, package number, main phone number and secondary phone number for all customers whose sector name is Business (Customers, Packages and Sectors tables).

**select first\_name,monthly\_discount,pack\_id,main\_phone\_num,secondary\_phone\_num from customers where pack\_id in(select pack\_id from packages where sector\_id=(select sector\_id from sectors where sector\_name='Business'));**

1. Display the first name, monthly discount and package number for all customers whose monthly payment is greater than the average monthly payment (Customers and Packages table).

**SELECT**

**first\_name,monthly\_discount,pack\_id**

**FROM customers where pack\_id in(select pack\_id from packages where monthly\_payment>(select AVG(monthly\_payment) from packages));**

1. Display the first name, city, state, birthdate and monthly discount for all customers who was born on the same date as customer number 179, and whose monthly discount is greater than the monthly discount of customer number 107 (Customers table)

**SELECT**

**\***

**FROM customers where birth\_date=(select birth\_date from customers where customer\_id=179) and monthly\_discount>(select monthly\_discount from customers where customer\_id=107);**

1. Display all the data from Packages table for packages whose internet speed equals to the internet speed of package number 30, and whose monthly payment is greater than the monthly payment of package number 7 (Packages table).

**select \* from packages where speed=(select speed from packages where pack\_id=30) and monthly\_payment>(select monthly\_payment from packages where pack\_id=7);**

1. Display the package number, internet speed, and monthly payment for all packages whose monthly payment is greater than the maximum monthly payment of packages with internet speed equals to “5Mbps” (Packages table).

**select pack\_id,speed,monthly\_payment from packages where monthly\_payment>(select max(monthly\_payment) from packages where speed='5Mbps');**

1. Display  the package number, internet speed and monthly payment for all packages whose monthly payment is greater than the minimum monthly payment of packages with internet speed equals to “5Mbps” (Packages table).

**select pack\_id,speed,monthly\_payment from packages where monthly\_payment>(select min(monthly\_payment) from packages where speed='5Mbps');**

1. Display the package number, internet speed and monthly payment for all packages whose monthly payment is lower than the minimum monthly payment of packages with internet speed equals to “5Mbps” (Packages table).

**select pack\_id,speed,monthly\_payment from packages where monthly\_payment<(select min(monthly\_payment) from packages where speed='5Mbps');**

1. Display the first name, monthly discount and package number for all customers whose monthly discount is lower than the average monthly discount, and whose package number is the same as customer named “Kevin”

**select first\_name,monthly\_discount,pack\_id from customers where monthly\_discount<(select avg(monthly\_discount) from customers) and pack\_id=(select pack\_id from customers where first\_name='Kevin');**