

## **Section 5 - SQL Script File**

```
CREATE TABLE "AZIPCODE"  
(  
    "ZIPCODE_ID" NUMBER,  
    "ZIPCODE" NUMBER,  
    "STATE" VARCHAR2(30),  
    "CITY" VARCHAR2(30),  
    CONSTRAINT "AZIPCODE_PK" PRIMARY KEY ("ZIPCODE_ID")  
    USING INDEX ENABLE  
)
```

```
Insert into AZIPCODE (ZIPCODE_ID, ZIPCODE, STATE, CITY) VALUES (1, '23230', 'VA', 'Richmond');  
Insert into AZIPCODE (ZIPCODE_ID, ZIPCODE, STATE, CITY) VALUES (2, '23047', 'VA', 'Doswell');  
Insert into AZIPCODE (ZIPCODE_ID, ZIPCODE, STATE, CITY) VALUES (3, '27858', 'NC', 'Greenville');
```

```
CREATE TABLE "AADDRESS"  
(  
    "ADDRESS_ID" NUMBER,  
    "ADDRESS_LINE" VARCHAR2(30),  
    "CUSTOMER_ID" NUMBER,  
    "ZIPCODE_ID" NUMBER,  
    CONSTRAINT "AADDRESS_PK" PRIMARY KEY ("ADDRESS_ID")  
    USING INDEX ENABLE  
)
```

```
Insert into AADDRESS (Address_ID, Address_Line, Customer_ID, ZipCode_ID) VALUES (1, '3408 W Moore  
St', 1, 1);  
Insert into AADDRESS (Address_ID, Address_Line, Customer_ID, ZipCode_ID) VALUES (2, '14211 Tower  
Rd', 2, 2);  
Insert into AADDRESS (Address_ID, Address_Line, Customer_ID, ZipCode_ID) VALUES (3, '507 Evans St',  
3, 3);
```

```
CREATE TABLE "APAYMENT"  
(  
    "PAYMENT_ID" NUMBER,  
    "PAYMENT_TYPE" VARCHAR2(30),  
    "CUSTOMER_ID" NUMBER,  
    "EMPLOYEE_ID" NUMBER,  
    CONSTRAINT "APAYMENT_PK" PRIMARY KEY ("PAYMENT_ID")  
    USING INDEX ENABLE  
)
```

```
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (1, 'Credit', 1,  
1);  
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (2, 'Cash', 2,  
2);  
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (3, 'Venmo',  
3, 3);
```

```

CREATE TABLE "ACUSTOMER"
(
    "CUSTOMER_ID" NUMBER,
    "FIRST_NAME" VARCHAR2(30),
    "LAST_NAME" VARCHAR2(30),
    "PHONE_NUMBER" NUMBER,
    "ADDRESS_ID" NUMBER,
    CONSTRAINT "ACUSTOMER_PK" PRIMARY KEY ("CUSTOMER_ID")
    USING INDEX ENABLE
)

```

```

Insert into ACUSTOMER (Customer_ID, First_Name, Last_Name, Phone_Number) VALUES (1, 'John',
'Smith', 8043565122);
Insert into ACUSTOMER (Customer_ID, First_Name, Last_Name, Phone_Number) VALUES (2, 'Tracy',
'Adams', 8046987564);
Insert into ACUSTOMER (Customer_ID, First_Name, Last_Name, Phone_Number) VALUES (3, 'Mark',
'Brown', 2526544891);

```

```

CREATE TABLE "AEMPLOYEE"
(
    "EMPLOYEE_ID" NUMBER,
    "EMPFIRST_NAME" VARCHAR2(30),
    "EMPLAST_NAME" VARCHAR2(30),
    "SALARY" NUMBER,
    CONSTRAINT "AEMPLOYEE_PK" PRIMARY KEY ("EMPLOYEE_ID")
    USING INDEX ENABLE
)

```

```

Insert into AEMPLOYEE (Employee_ID, EmpFirst_name, EmpLastName, Salary) VALUES (1, 'Richard',
Tozer', 30125);
Insert into AEMPLOYEE (Employee_ID, EmpFirst_name, EmpLastName, Salary) VALUES (2, 'Ashley',
Nixon', 25890);
Insert into AEMPLOYEE (Employee_ID, EmpFirst_name, EmpLastName, Salary) VALUES (3, 'Sarah',
Johnson', 32540);

```

```

CREATE TABLE "AORDER"
(
    "ORDER_ID" NUMBER,
    "CUSTOMER_ID" NUMBER,
    "SHIPMENT_DURATION" NUMBER,
    "ORDER_DATE" VARCHAR2(30),
    "STATUS" VARCHAR2(30),
    CONSTRAINT "AORDER_PK" PRIMARY KEY ("ORDER_ID")
    USING INDEX ENABLE
)

```

```

Insert into AORDER (Order_ID, Customer_ID, Shippment_Duration, Order_Date, Status) VALUES (1, 1, 3,
TO_DATE ('2019/02/15', 'yyyy/mm/dd'), Shipped);

```

Insert into AORDER (Order\_ID, Customer\_ID, Shippment\_Duration, Order\_Date, Status) VALUES (2, 2, 5, TO\_DATE ('2019/03/07', 'yyyy/mm/dd'), Pending);

Insert into AORDER (Order\_ID, Customer\_ID, Shippment\_Duration, Order\_Date, Status) VALUES (3, 3, 7, TO\_DATE ('2019/03/18', 'yyyy/mm/dd'), Pending);

```
CREATE TABLE "AORDER_LINE"
(
    "PRODUCT_ID" NUMBER,
    "ORDER_ID" NUMBER,
    "ORDER_DATE" VARCHAR2(30),
    "QUANTITY" NUMBER,
    CONSTRAINT "AORDER_LINE_PK" PRIMARY KEY ("PRODUCT_ID")
    USING INDEX ENABLE
)
```

INSERT INTO AORDER\_LINE (PRODUCT\_ID, ORDER\_ID, ORDER\_DATE, QUANTITY)  
VALUES (1, 1, TO\_DATE ('2019/02/15', 'yyyy/mm/dd'), 2);

INSERT INTO AORDER\_LINE (PRODUCT\_ID, ORDER\_ID, ORDER\_DATE, QUANTITY)  
VALUES (2, 2, TO\_DATE ('2019/03/07', 'yyyy/mm/dd'), 4);

INSERT INTO AORDER\_LINE (PRODUCT\_ID, ORDER\_ID, ORDER\_DATE, QUANTITY)  
VALUES (3, 3, TO\_DATE ('2019/03/07', 'yyyy/mm/dd'), 6);

## **Section 6 – SELECT and DESC commands**

```
SELECT * FROM AZIPCODE
```

**Results** Explain Describe Saved SQL History

ZIPCODE_ID	ZIPCODE	STATE	CITY
1	23230	VA	Richmond
2	23047	VA	Doswell
3	27858	NC	Greenville

3 rows returned in 0.00 seconds

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```
DESC AZIPCODE
```

**Results** Explain **Describe** Saved SQL History

Object Type **TABLE** Object **AZIPCODE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
<a href="#">AZIPCODE</a>	<a href="#">ZIPCODE_ID</a>	NUMBER	22	-	-	1	-	-	-
	<a href="#">ZIPCODE</a>	NUMBER	22	-	-	-	✓	-	-
	<a href="#">STATE</a>	VARCHAR2	30	-	-	-	✓	-	-
	<a href="#">CITY</a>	VARCHAR2	30	-	-	-	✓	-	-

1 - 4

```
SELECT * FROM AADDRESS
```

**Results** Explain Describe Saved SQL History

ADDRESS_ID	ADDRESS_LINE	CUSTOMER_ID	ZIPCODE_ID
1	3408 W Moore St	1	1
2	14211 Tower Rd	2	2
3	507 Evans St	3	3

3 rows returned in 0.01 seconds

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DESC

| AADDRESS

**Results** Explain **Describe** Saved SQL History

Object Type **TABLE** Object **AADDRESS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
<u>AADDRESS</u>	<u>ADDRESS_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>ADDRESS_LINE</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>CUSTOMER_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>ZIPCODE_ID</u>	NUMBER	22	-	-	-	✓	-	-

1 - 4

```
SELECT * FROM APAYMENT
```

**Results** Explain Describe Saved SQL History

PAYMENT_ID	PAYMENT_TYPE	CUSTOMER_ID	EMPLOYEE_ID
1	Credit	1	1
2	Cash	2	2
3	Venmo	3	3

3 rows returned in 0.01 seconds

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```
DESC APAYMENT
```

**Results** Explain **Describe** Saved SQL History

Object Type **TABLE** Object **APAYMENT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
<a href="#">APAYMENT</a>	<a href="#">PAYMENT_ID</a>	NUMBER	22	-	-	1	-	-	-
	<a href="#">PAYMENT_TYPE</a>	VARCHAR2	30	-	-	-	✓	-	-
	<a href="#">CUSTOMER_ID</a>	NUMBER	22	-	-	-	✓	-	-
	<a href="#">EMPLOYEE_ID</a>	NUMBER	22	-	-	-	✓	-	-

1 - 4

```
SELECT * FROM ACUSTOMER
```

**Results** Explain Describe Saved SQL History

CUSTOMER_ID	FIRST_NAME	LAST_NAME	PHONE_NUMBER	ADDRESS_ID
1	John	Smith	8043565122	1
2	Tracy	Adams	8046987564	2
3	Mark	Brown	2526544891	3

3 rows returned in 0.00 seconds

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Save

Run


DESC ACUSTOMER

**Results** Explain **Describe** Saved SQL History

Object Type **TABLE** Object **ACUSTOMER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
<u>ACUSTOMER</u>	<u>CUSTOMER_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>FIRST_NAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>LAST_NAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>PHONE_NUMBER</u>	NUMBER	22	-	-	-	✓	-	-
	<u>ADDRESS_ID</u>	NUMBER	22	-	-	-	✓	-	-

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☒ Autocommit   Rows    

Save

Run

```
SELECT * FROM AEMPLOYEE
```

**Results**   Explain   Describe   Saved SQL   History

EMPLOYEE_ID	EMPFIRST_NAME	EMPLAST_NAME	SALARY
1	Richard	Tozer	30125
2	Ashley	Nixon	25890
3	Taylor	Mathes	32540

3 rows returned in 0.01 seconds

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DESC AEMPLOYEE

---

[Results](#)   [Explain](#)   [Describe](#)   [Saved SQL](#)   [History](#)

Object Type **TABLE** Object **AEMPLOYEE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>AEMPLOYEE</u>	<u>EMPLOYEE_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>EMPFIRST_NAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>EMPLAST_NAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>SALARY</u>	NUMBER	22	-	-	-	✓	-	-

1 - 4

SELECT \* FROM AORDER

---

[Results](#)   [Explain](#)   [Describe](#)   [Saved SQL](#)   [History](#)

ORDER_ID	CUSTOMER_ID	SHIPPMENT_DURATION	ORDER_DATE	STATUS
1	1	3	02/15/2019	Shipped
2	2	5	03/07/2019	Shipped
3	3	7	03/18/2019	Pending

3 rows returned in 0.00 seconds   [Download](#)

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DESC AORDER

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **AORDER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	C
<u>AORDER</u>	<u>ORDER_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>CUSTOMER_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>SHIPPMENT_DURATION</u>	NUMBER	22	-	-	-	✓	-	-
	<u>ORDER_DATE</u>	DATE	7	-	-	-	✓	-	-
	<u>STATUS</u>	VARCHAR2	30	-	-	-	✓	-	-

1 - 5

SELECT \* FROM AORDER\_LINE

Results Explain Describe Saved SQL History

PRODUCT_ID	ORDER_ID	ORDER_DATE	QUANTITY
2	2	03/07/2019	4
1	1	02/15/2019	2
3	3	03/07/2019	6

3 rows returned in 0.00 seconds
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DESC AORDER\_LINE

Results Explain Describe Saved SQL History

Object Type TABLE Object AORDER\_LINE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
AORDER_LINE	PRODUCT_ID	NUMBER	22	-	-	1	-	-	-
	ORDER_ID	NUMBER	22	-	-	-	✓	-	-
	ORDER_DATE	DATE	7	-	-	-	✓	-	-
	QUANTITY	NUMBER	22	-	-	-	✓	-	-

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## Section 7 – Queries:

```
SELECT FIRST_NAME, LAST_NAME
FROM ACUSTOMER AA, AADDRESS BB
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID
AND BB.ZIPCODE_ID = 3;
```

Results Explain Describe Saved SQL

FIRST_NAME	LAST_NAME
Mark	Brown

1 rows returned in 0.01 seconds [Download](#)

```
SELECT FIRST_NAME, LAST_NAME  
FROM ACUSTOMER AA, AADDRESS BB, AZIPCODE CC  
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID  
AND BB.ZIPCODE_ID = CC.ZIPCODE_ID  
AND CC.ZIPCODE = 23230  
|;
```

**Results** Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME
John	Smith

1 rows returned in 0.01 seconds

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