



AUTHOR

```
CREATE TABLE author (author_id NUMBER,  
                        create_date DATE,  
                        first_name VARCHAR2(30),  
                        last_name VARCHAR2(30),  
                        CONSTRAINT pk_author PRIMARY KEY(author_id) );
```

Query Result x

SQL | All Rows Fetched: 20 in 0.141 seconds

	AUTHOR_ID	CREATE_DATE	FIRST_NAME	LAST_NAME
1	1	14-FEB-20	ISAAC	ASIMOV
2	2	28-FEB-20	STEPHEN	KING
3	3	05-MAR-20	RAY	BRADBURY
4	4	15-MAR-20	GEORGE	ORWELL
5	5	03-APR-20	STANISLAW	LEM
6	6	16-MAY-20	ALEKSANDR	SOLZHENITSYN
7	7	03-JUN-20	JOHN	TOLKIEN
8	8	29-JUN-20	ANTOINE	DE SAINT-EXUPERY
9	9	03-AUG-20	DMITRY	GLUKHOVSKY
10	10	11-SEP-20	ANTON	CHEKHOV
11	11	15-SEP-20	JOANNE	BOWLING

PUBLISHER

```
CREATE TABLE publisher (publisher_id NUMBER,  
                          create_date DATE,  
                          publisher_name VARCHAR2(30),  
                          country VARCHAR2(30),  
                          CONSTRAINT pk_publisher PRIMARY KEY(publisher_id) );
```

Query Result x

SQL | All Rows Fetched: 7 in 0.153 seconds

	PUBLISHER_ID	CREATE_DATE	PUBLISHER_NAME	COUNTRY
1	1	12-AUG-20	VINTAGE BOOKS	UNITED STATES
2	2	22-AUG-20	EKSMO	RUSSIA
3	3	24-AUG-20	CROWN PUBLISHER GROUP	UNITED STATES
4	4	06-SEP-20	BALLANTINE BOOKS	UNITED STATES
5	5	16-OCT-20	EDITIONS DU CENTRE POMPIDOU	FRANCE
6	6	19-JAN-21	MODERN LIBRARY	UNITED STATES
7	7	22-JAN-21	BANTAM BOOKS	UNITED STATES

WAREHOUSE

```
CREATE TABLE warehouse (warehouse_id NUMBER,
                           create_date DATE,
                           address VARCHAR2(80),
                           city VARCHAR2(20),
                           state CHAR(2),
                           postal_index NUMBER CHECK(postal_index BETWEEN 00000 AND 99999),
                           CONSTRAINT pk_warehouse PRIMARY KEY(warehouse_id) );
```

Script Output x Query Result x

SQL | All Rows Fetched: 4 in 0.178 seconds

	WAREHOUSE_ID	CREATE_DATE	ADDRESS	CITY	STATE	POSTAL...
1	1	07-NOV-19	27888 ROMIRA DR	ORANGE	CA	92777
2	2	13-AUG-20	42420 ANDERS PL	DALLAS	TX	75201
3	3	02-SEP-20	23678 CALLE ARAGON	LAKE FOREST	CA	92630
4	4	02-SEP-20	83900 DAPHNE ST	BALDWIN	AL	36507

BOOK

```
CREATE TABLE book (book_id NUMBER,
                     book_name VARCHAR2(100),
                     translated VARCHAR2(20),
                     genre VARCHAR2(20),
                     author_id NUMBER,
                     published NUMBER,
                     publisher_id NUMBER,
                     price NUMBER,
                     CONSTRAINT pk_book PRIMARY KEY(book_id),
                     CONSTRAINT fk_b_author_id FOREIGN KEY(author_id) REFERENCES author(author_id),
                     CONSTRAINT fk_b_publisher_id FOREIGN KEY(publisher_id) REFERENCES publisher(publisher_id) );
```

Query Result x

SQL | Fetched 50 rows in 0.138 seconds

	BOOK_ID	BOOK_NAME	TRANSLATED	GENRE	AUTHOR_ID	PUBLISHED	PUBLISHER_ID	PRICE
1	1	THE SILMARILLION	ENGLISH	FANTASY	7	1977	1	9.29
2	2	THE LITTLE PRINCE	ENGLISH	FABLE	8	1943	5	7.99
3	3	THE END OF ETERNITY	ENGLISH	SCIENCE FICTION	1	1955	3	15.99
4	4	THE UGLY LITTLE BOY	ENGLISH	SCIENCE FICTION	1	1958	1	4.99
5	5	NIGHTFALL	ENGLISH	SCIENCE FICTION	1	1941	1	16.49
6	6	1984	ENGLISH	SCIENCE FICTION	4	1949	2	13.4
7	7	DANDELION WINE	ENGLISH	NOVEL	3	1957	1	6.98
8	8	METRO 2033	ENGLISH	NOVEL	9	2005	1	10.99
9	9	THE DARK TOWER: WOLFS OF THE CALLA	ENGLISH	FANTASY	2	2003	7	13.13
10	10	THE DARK TOWER: THE DRAWING OF THE THREE	ENGLISH	FANTASY	2	1987	7	13.49
11	11	HARRY POTTER AND THE ORDER OF THE PHOENIX	ENGLISH	FANTASY	11	2003	1	16.9
12	12	WARD NO. 6	ENGLISH	FICTION	10	(null)	2	7.88
13	13	SOLARIS	ENGLISH	SCIENCE FICTION	5	1961	3	12.69
14	14	CANCER WARD	ENGLISH	NOVEL	6	1966	2	12.9

CUSTOMER

```
CREATE TABLE customer (customer_id NUMBER,
                        create_date DATE,
                        first_name VARCHAR2(30) NOT NULL,
                        last_name VARCHAR2(30) NOT NULL,
                        date_of_birth DATE,
                        balance NUMBER DEFAULT 0,
                        service_plan VARCHAR2(20),
                        CONSTRAINT pk_customer PRIMARY KEY(customer_id) );
```

Script Output x Query Result x

SQL | Fetched 50 rows in 0.143 seconds

CUSTOMER_ID	CREATE_DATE	FIRST_NAME	LAST_NAME	DATE_OF_BIRTH	BALANCE	SERVICE_PLAN
1	20-NOV-20	ANDREW	HOLLAND	04-FEB-80	7.8	VIP (PREMIUM)
2	20-NOV-20	TIM	SMITH	14-JUN-78	11.27	VIP (PREMIUM)
3	22-NOV-20	JOANNE	KINGSMAN	31-OCT-82	16.61	(null)
4	22-NOV-20	SCOTT	BLACK	26-SEP-81	5.1	(null)
5	22-NOV-20	JEROME	UMUMBE	26-DEC-90	3.31	Lite (STARTER)
6	24-NOV-20	SAMUEL	KIM	16-JUL-85	9.72	(null)
7	24-NOV-20	ANNA	FISHMAN	19-JUL-79	23.11	VIP (PREMIUM)
8	24-NOV-20	LEONA	LEOSTRA	03-MAR-90	3.53	(null)
9	25-NOV-20	KIMBERLY	TIMBER	18-NOV-71	8.62	Reader (REGULAR)
10	25-NOV-20	HUGH	JAMESON	15-JUN-74	11.05	Reader (REGULAR)
11	25-NOV-20	ANGELA	JAMESON	15-JUN-74	7.76	(null)

SALES

```
CREATE TABLE sales (sale_id NUMBER,
                    sales_date DATE,
                    shipping_date DATE,
                    customer_id NUMBER,
                    book_id NUMBER,
                    warehouse_id NUMBER,
                    price_amount NUMBER,
                    tax_amount NUMBER,
                    total_amount NUMBER,
                    CONSTRAINT pk_sales PRIMARY KEY(sale_id),
                    CONSTRAINT fk_sales_customer_id FOREIGN KEY(customer_id) REFERENCES customer(customer_id),
                    CONSTRAINT fk_sales_book_id FOREIGN KEY(book_id) REFERENCES book(book_id),
                    CONSTRAINT fk_sales_warehouse_id FOREIGN KEY(warehouse_id) REFERENCES warehouse(warehouse_id));
```

Script Output x Query Result x

SQL | Fetched 200 rows in 0.287 seconds

SALE_ID	SALES_DATE	SHIPPING_DATE	CUSTOMER_ID	BOOK_ID	WAREHOUSE_ID	PRICE_AMOUNT	TAX_AMOUNT	TOTAL_AMOUNT
114	25-DEC-20	01-JAN-21	3	69	3	12.1	1.33	13.43
115	25-DEC-20	01-JAN-21	39	115	4	13.22	0.97	14.19
116	25-DEC-20	01-JAN-21	10	145	1	9.99	1.1	11.09
117	25-DEC-20	01-JAN-21	25	87	1	6.98	0.77	7.75
118	25-DEC-20	01-JAN-21	1	62	2	11.09	0.94	12.03
119	25-DEC-20	01-JAN-21	13	151	3	12.24	1.35	13.59
120	25-DEC-20	01-JAN-21	45	19	3	3.99	0.44	4.43
121	25-DEC-20	01-JAN-21	47	117	4	11.25	0.82	12.07
122	30-DEC-20	15-JAN-21	9	104	2	9.09	0.77	9.86
123	30-DEC-20	15-JAN-21	23	94	1	12.9	1.42	14.32
124	30-DEC-20	15-JAN-21	44	61	4	9.79	0.71	10.5

EVENT_LOG:

```
CREATE TABLE event_log (event_id NUMBER,  
    event_date DATE,  
    user_name VARCHAR2(30),  
    table_name VARCHAR2(30),  
    inserted_value VARCHAR2(100),  
    deleted_value VARCHAR2(100),  
    commentary CLOB,  
    CONSTRAINT pk_event_log PRIMARY KEY(event_id) );
```

Script Output x Query Result x

SQL All Rows Fetched: 8 in 0.135 seconds

EVENT_ID	EVENT_DATE	USER_NAME	TABLE_NAME	INSERTED_VALUE	DELETED_VALUE	COMMENTARY
1	101-MAR-21	ADMIN	BOOK	14.84	4.99	BOOK_ID: 84(THE UGLY LITTLE BOY), price has been changed to 14.84
2	201-MAR-21	ADMIN	CUSTOMER	23.11	8.68	CUSTOMER_ID: 7, balance has been changed to 23.11
3	301-MAR-21	ADMIN	CUSTOMER	36.541	15.94	CUSTOMER_ID: 43, balance has been changed to 36.541
4	401-MAR-21	ADMIN	CUSTOMER	33.188	13.19	CUSTOMER_ID: 29, balance has been changed to 33.188
5	501-MAR-21	ADMIN	CUSTOMER	5.683	4.95	CUSTOMER_ID: 16, balance has been changed to 5.683
6	601-MAR-21	ADMIN	CUSTOMER	20.206	14.25	CUSTOMER_ID: 27, balance has been changed to 20.206
7	2102-MAR-21	JOB	(null)	(null)	(null)	View VW_DAILY_SALES has been updated

VW_DAILY_SALES

```
CREATE MATERIALIZED VIEW vw_daily_sales  
AS  
    SELECT sales_date,  
        COUNT(*) AS total_sales,  
        COUNT(DISTINCT customer_id) unique_customers,  
        SUM(total_amount) total_amount  
    FROM sales  
    GROUP BY sales_date  
    ORDER BY sales_date ;
```

Script Output x Query Result x

SQL All Rows Fetched: 33 in 0.148 seconds

	SALES_DATE	TOTAL_SALES	UNIQUE_CUSTOMERS	TOTAL_AMOUNT
1	01-NOV-20	20	16	240.9
2	10-NOV-20	9	9	100.48
3	12-NOV-20	5	5	62.63
4	22-NOV-20	9	9	86.25
5	29-NOV-20	12	10	162.71
6	01-DEC-20	5	5	73.38
7	07-DEC-20	12	11	136.37
8	10-DEC-20	14	14	191.08
9	14-DEC-20	8	8	115.2
10	18-DEC-20	3	3	38.71
11	19-DEC-20	4	4	49.49
12	23-DEC-20	9	6	118.19
13	25-DEC-20	11	11	129.65
14	30-DEC-20	3	3	34.68