

TABLE 1 - STUDENT

```
CREATE TABLE student(
    Register_no NUMBER(20),Name VARCHAR(38),Date_of_Birth DATE
);
```

Column Name	Data Type	Nullable	Default	Primary Key
REGISTER_NO	NUMBER(20,0)	Yes	-	-
NAME	VARCHAR2(38)	Yes	-	-
DATE_OF_BIRTH	DATE	Yes	-	-

ALTER TABLE student

ADD bloodgrp VARCHAR(20);

Column Name	Data Type	Nullable	Default	Primary Key
REGISTER_NO	NUMBER(20,0)	Yes	-	-
NAME	VARCHAR2(38)	Yes	-	-
DATE_OF_BIRTH	DATE	Yes	-	-
BLOODGRP	VARCHAR2(20)	Yes	-	-

ALTER TABLE student ADD PRIMARY KEY (register_no);

Column Name	Data Type	Nullable	Default	Primary Key
REGISTER_NO	NUMBER(20,0)	No	-	1
NAME	VARCHAR2(38)	Yes	-	-
DATE_OF_BIRTH	DATE	Yes	-	-
BLOODGRP	VARCHAR2(20)	Yes	-	-

ALTER TABLE student

ADD use_less VARCHAR(20);

Column Name	Data Type	Nullable	Default	Primary Key
REGISTER_NO	NUMBER(20,0)	No	-	1
NAME	VARCHAR2(38)	Yes	-	-
DATE_OF_BIRTH	DATE	Yes	-	-
BLOODGRP	VARCHAR2(20)	Yes	-	-
USE_LESS	VARCHAR2(20)	Yes	-	-

ALTER TABLE student

DROP (use_less);

Tables

Q

DEPARTMENT

STUDENT

STUDENT1

STUDENT

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
REGISTER_NO	NUMBER(20,0)	No	-	1
NAME	VARCHAR2(38)	Yes	-	-
DATE_OF_BIRTH	DATE	Yes	-	-
BLOODGRP	VARCHAR2(20)	Yes	-	-

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ALTER TABLE student

RENAME COLUMN register_no TO Regno;

Tables

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DEPARTMENT

STUDENT

STUDENT1

STUDENT

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
NAME	VARCHAR2(38)	Yes	-	-
DATE_OF_BIRTH	DATE	Yes	-	-
BLOODGRP	VARCHAR2(20)	Yes	-	-

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ALTER TABLE student

MODIFY std_name VARCHAR(38) NOT NULL;

Tables

Q

DEPARTMENT

STUDENT

STUDENT1

STUDENT

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
STD_NAME	VARCHAR2(38)	No	-	-
DATE_OF_BIRTH	DATE	Yes	-	-
BLOODGRP	VARCHAR2(20)	Yes	-	-

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ALTER TABLE student

MODIFY Date_of_Birth NUMERIC NOT NULL;

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STUDENT

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Sample Queries

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name

Data Type

Nullable

Default

Primary Key

REGNO

NUMBER(20,0)

No

-

1

STD_NAME

VARCHAR2(38)

No

-

-

DATE_OF_BIRTH

DATE

Yes

-

-

BLOODGRP

VARCHAR2(20)

Yes

-

-

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INSERT INTO student VALUES (059,'shini', 2000,'A');

INSERT INTO student VALUES (057,'bob', 2000,'B');

INSERT into student VALUES (056,'ken', 2001,'O');

INSERT INTO student VALUES (055,'jen',2003,'AB');

INSERT INTO student VALUES (052,'kate',2005,'B');

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Sample Queries

Query

Count Rows

Insert Row

Load Data

EDIT

REGNO

STD_NAME

DATE_OF_BIRTH

BLOODGRP

<

SELECT * FROM student

ORDER BY Regno;

View:	Detail	Summary	Show:	Statement	Results	Feedback	Go
SELECT * FROM student ORDER BY Regno							
REGNO	STD_NAME	DATE_OF_BIRTH	BLOODGRP				
52	kate	2005	B				
55	jen	2003	AB				
56	ken	2001	C				
57	bob	2000	B				
59	shini	2000	A				
5 rows selected. 0.01 seconds							
Run By	IN_AB16_PLSQL_538						
Parsing Schema	IN_AB16_PLSQL_538						
Script Started	Saturday, July 27, 2024						
	2 minutes ago						
Elapsed time	0.01 seconds						
Statements Processed	1						
Successful	1						
With Errors	0						
Download							

SELECT * FROM student

WHERE Regno BETWEEN 52 AND 59;

SQL Scripts \ Results

Script: student Status: Complete

View: Detail Summary Show: ☒ Statement ☒ Results ☒ Feedback Go

Create App Edit Script

SELECT * FROM student WHERE Regno BETWEEN 52 AND 59

REGNO	STD_NAME	DATE_OF_BIRTH	BLOODGRP
52	kate	2005	B
55	jen	2003	AB
56	ken	2001	C
57	bob	2000	B
59	shini	2000	A

5 rows selected. 0.00 seconds

Run By

IN_A816_PLSQL_S38

Parsing Schema

IN_A816_PLSQL_S38

Script Started

Saturday, July 27, 2024

Elapsed time

14 seconds ago

DELETE FROM STUDENT1 WHERE BLOODGRP ='O';

Table **Data** Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST Sample Queries

Query Count Rows Insert Row Load Data

EDIT	REGNO	NAME	DATE_OF_BIRTH	BLOODGRP
	55	jen	2003	AB
	52	kate	2005	B
	57	bob	2000	B
	59	shini	2000	A

DELETE ALL DATA:

DELETE FROM STUDENT1;

Results	Explain	Describe	Saved SQL	History
4 row(s) deleted.				
0.00 seconds				

DROP TABLE STUDENT1;

Results	Explain	Describe	Saved SQL	History
Table dropped.				
0.03 seconds				

TABLE 2 – PERSON AND ORDER

CREATE TABLE PERSON(PersonID INT PRIMARY KEY, PersonName VARCHAR(20), PersonAGE INT);

PERSON

+ v

Table

Data

Indexes

Model

Constraints

Grants

Statistics

UI Defaults

Triggers

Dependencies

SQL

REST

Sample Queries

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

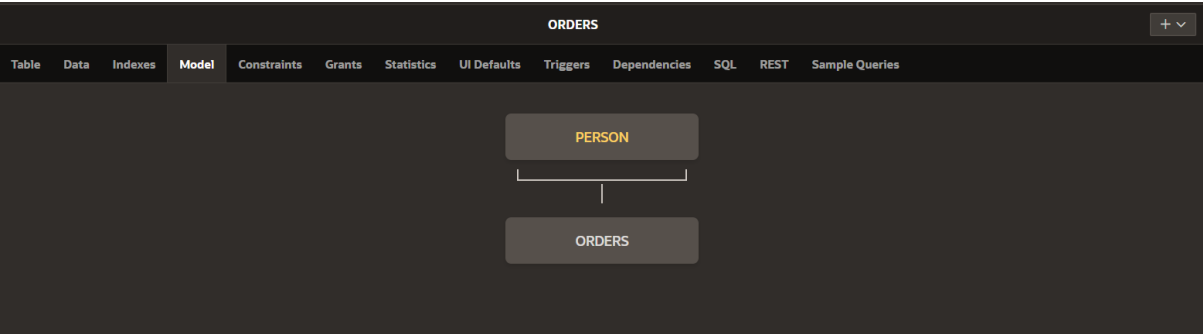
Column Name	Data Type	Nullable	Default	Primary Key
PERSONID	NUMBER	No	-	1
PERSONNAME	VARCHAR2(20)	Yes	-	-
PERSONAGE	NUMBER	Yes	-	-

CREATE TABLE ORDERS(OrderID INT PRIMARY KEY, PersonID INT);

Table	Data	Indexes	Model	Constraints	Grants	Statistics	UI Defaults	Triggers	Dependencies	SQL	REST	Sample Queries
<div><div>Add Column</div><div>Modify Column</div><div>Rename Column</div><div>Drop Column</div><div>Rename</div><div>Copy</div><div>Drop</div><div>Truncate</div><div>Create Lookup Table</div><div>Create App</div></div>												
Column Name				Data Type		Nullable		Default		Primary Key		
ORDERID				NUMBER		No		-		1		
PERSONID				NUMBER		Yes		-		-		

ALTER TABLE ORDERS ADD FOREIGN KEY(PERSONID) REFERENCES PERSON(PERSONID);

Table	Data	Indexes	Model	Constraints	Grants	Statistics	UI Defaults	Triggers	Dependencies	SQL	REST	Sample Queries
<div><div>Add Column</div><div>Modify Column</div><div>Rename Column</div><div>Drop Column</div><div>Rename</div><div>Copy</div><div>Drop</div><div>Truncate</div><div>Create Lookup Table</div><div>Create App</div></div>												
Column Name				Data Type			Nullable		Default		Primary Key	
ORDERID				NUMBER			No		-		1	
PERSONID				NUMBER			Yes		-		-	



SELECT ORDERS.OrderID, PERSON.PersonID, PERSON.PersonName, PERSON.PersonAGE
FROM ORDERS

INNER JOIN PERSON ON ORDERS.PersonID = PERSON.PersonID;

Results Explain Describe Saved SQL History			
ORDERID	PERSONID	PERSONNAME	PERSONAGE
124	11	Maithreyee	20
125	12	Harini	20
126	13	Dharshini	18
123	10	Priyal	18
4 rows returned in 0.00 seconds Download			

USING Clause:

```
SELECT PersonID, PersonName, PersonAge
FROM PERSON
JOIN ORDERS
USING (PersonID);
```

PERSONID	PERSONNAME	PERSONAGE
11	Maithreyee	20
12	Harini	20
13	Dharshini	18
10	Priyal	18

USING & WHERE Clause:

```
SELECT PersonID, PersonName, PersonAge
FROM PERSON
JOIN ORDERS
USING (PersonID)
WHERE PersonID <14;
```

PERSONID	PERSONNAME	PERSONAGE
11	Maithreyee	20
12	Harini	20
13	Dharshini	18
10	Priyal	18
4 rows returned in 0.01 seconds Download		

JOIN THREE TABLES:

```
SELECT
    PERSON.PersonName,
```

```

PERSON.PersonAge,
PERSON.PersonID,
MARKS.marks1,
MARKS.marks2,
MARKS.marks3
FROM PERSON
JOIN ORDERS ON PERSON.PersonID = ORDERS.PersonID
JOIN MARKS ON PERSON.PersonID = MARKS.PersonID;

```

PERSONNAME	PERSONAGE	PERSONID	MARKS1	MARKS2	MARKS3
Maithreyee	20	11	95	97	98
Dharshini	18	13	98	100	96
Priyal	18	10	98	99	100
Harini	20	12	97	98	95

LEFT OUTER JOIN:

```

SELECT p.personname,p.personage, o.orderid FROM person p LEFT OUTER
JOIN orders o ON (p.personid=o.personid);

```

Results Explain Describe Saved SQL History			
PERSONNAME	PERSONAGE	ORDERID	
Priyal	18	123	
Maithreyee	20	124	
Harini	20	125	
Dharshini	18	126	

RIGHT OUTER JOIN:

```

SELECT
o.orderid,
o.dept,
p.personname
FROM
orders o
RIGHT OUTER JOIN
person p
ON

```

o.personid = p.personid;

ORDERID	DEPT	PERSONNAME
123	AIDS	Priyal
124	AIML	Maithreyee
125	AIDS	Harini
126	AIDS	Dharshini