

Writing Basic SQL Select Statement

1. The following statement executes successfully.

Identify the Errors

SELECT employee_id, last_name sal*12 ANNUAL SALARY FROM employees;

Ans: SELECT employee_id, last_name,salary*12 as ANNUAL_SALARY FROM employees;

EMPLOYEE_ID	LAST_NAME	ANNUAL_SALARY
102	mv	7200006.96
602	austin	57606.96
101	sp	9000006.96
506	kp	54006.96
705	r	780006.96

5 rows returned in 0.04 seconds [Download](#)

2. Show the structure of departments the table. Select all the data from it.

Ans: desc dept;

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT	ID	NUMBER	-	7	0	-	✓	-	-
	NAME	VARCHAR2	25	-	-	-	✓	-	-

select * from dept;

ID	NAME
102	surya
602	spark
101	surveesh
506	mounesh
705	vijay

3. Create a query to display the last name, job code, hire date, and employee number for each employee, with employee number appearing first.

Ans: select employee_id,last_name, job_id, hire_date from employees;

EMPLOYEE_ID	LAST_NAME	JOB_ID	HIRE_DATE
102	mv	DB4205	08/14/1996
602	austin	AI6291	11/11/2001
101	sp	AI2501	11/25/1994
506	kp	CS7209	06/30/1998
705	r	CS7209	12/30/2004

4. Provide an alias STARTDATE for the hire date.

Ans: alter table employees rename column hire_date to startdate;

Column	Data Type	Length	Precision	Scale	Nullable
EMPLOYEE_ID	NUMBER	22	6	0	No
FIRST_NAME	VARCHAR2	20	-	-	Yes
LAST_NAME	VARCHAR2	25	-	-	No
EMAIL	VARCHAR2	25	-	-	No
PHONE_NUMBER	VARCHAR2	20	-	-	Yes
STARTDATE	DATE	7	-	-	No
JOB_ID	VARCHAR2	10	-	-	No
SALARY	NUMBER	22	8	2	Yes
COMMISSION_PCT	NUMBER	22	2	2	Yes
MANAGER_ID	NUMBER	22	6	0	Yes
DEPARTMENT_ID	NUMBER	22	4	0	Yes

5. Create a query to display unique job codes from the employee table.

Ans: select distinct job_id from employees;

JOB_ID
CS7209
AI6291
DB4205
AI2501

6. Display the last name concatenated with the job ID , separated by a comma and space,

and name the column EMPLOYEE and TITLE.

Ans: select last_name || ', ' || job_id as EMPLOYEE_TITLE from employees;

EMPLOYEE_TITLE
mv,DB4205
austin,AI6291
sp,AI2501
kp,CS7209
r,CS7209

7. Create a query to display all the data from the employees table. Separate each column by a comma. Name the column THE_OUTPUT.

Ans: select employee_id || ', ' || first_name|| ', ' ||last_name|| ', ' || job_id as output from employees;

OUTPUT
102,surya,mv,DB4205
602,spark,austin,AI6291
101,surweesh,sp,AI2501
506,mounesh,kp,CS7209
705,vijay,r,CS7209